IBM

VisualAge Pacbase 2.5

GCOS7 OLSD
REFERENCE MANUAL

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TABLE OF CONTENTS

1. INTRODUCTION

BRIEF DESCRIPTION OF THIS MANUAL'S CONTENTS

This manual presents a Screen described in and generated by the OLSD function. It is a complement to the ON-LINE SYSTEMS DEVELOPMENT (OLSD) Reference Manual, which is common to all on-line monitors.

This manual first shows the coding and then the organization of the generated programs.

The structure of a generated program is also detailed and commented upon so as to help users insert their own specific procedures that may be needed in the Screen.

It illustrates the following:

  . The coding of Data Names,
  . Descriptions of segments, screen, work areas, and communication areas,
  . A complete lexicon of variables, indexes and fields used by the automatic functions,
  . A description of the automatic functions, including their generation conditions. (Refer to Chapter "GENERATED PROGRAM: PROCEDURE DIVISION".)

NOTE: The Screen example described in this manual does not illustrate all generation possibilities provided by the OLSD function: segment accesses, cross-references between segments, access conditions, etc.

This manual does NOT contain an exhaustive presentation of the specific information on the use of the OLSD function.

REMINDERS ON THE OLSD FUNCTION

Based on the Screen descriptions, the OLSD function ensures the following:

  - The automatic generation of the Screen map description from layout-type
    information. (Adaptation to the hardware and on-line monitor is based on an
    option specified at the Screen level.)

  - The automatic generation of the Screen data processing from process-type
    information:

  . Screen Call of Elements (-CE) -> Screen data processing

  . Screen Call of Segments (-CS) -> External data processing

  . Dialogue Complement (-O) and Dialogue and Screen General Documentation
    (-G)   -> Generation Options

  . Structured Code (-P)   -> Specific processing

All processing is generated in a program structured in "Reception" and
"Display", thus ensuring the complete processing of the Screen data.

The program is generated in COBOL. Adaptation to the hardware and the on-
line Monitor is based on the options specified at the Screen level.

REMINDERS ON THE OLSD FUNCTION - Cont'd

It may be necessary to use complementary description lines in order to generate on-line programs:

. Screen General Documentation (-G),
. Screen Call of Macro-Structures (-CP),
. Beginning Insertions (-B),
. Screen Work Areas (-W).

SCREEN GENERAL DOCUMENTATION

The General Documentation (-G) lines of the screen or dialogue can be used to override the value of some generated constants. For more details, refer to Chapter "DESCRIPTION OF A TRANSACTION", Subchapter "SCREEN GENERAL DOCUMENTATION (-G)" in the OLSD Reference Manual.

WORK AREAS

On Work Areas (-W) screens, 'AA' is a reserved value for the CODE FOR COBOL PLACEMENT; it is used internally by the OLSD function.

The automatically generated lines are identified in the COBOL code by the '*AAnnn' character string from columns 72 to 80. They can be overridden on the Work Areas (-W) screen on 'AAnnn'-numbered lines.

All the DPS7 generation variants are illustrated in this manual; they are used to generate the same screen: DO0030.

The following table shows the variants documented in this manual:

```
-----------------------------------------------
!MULTI-SCREEN  4 C  Complete       Commented   !
!---------------------------------------------!
!QUESTAR       4 0  Complete       Not commented !
!---------------------------------------------!
!VIP           4 1  Specificities  Commented   !
!---------------------------------------------!
!HELP          4 C  Complete       Commented   !
-----------------------------------------------
```

VARIANTS AVAILABLE WITH DPS7

```
       -------------------------------------
       !  4    C      ! MULTI-SCREEN DPS7   !
       !  4    1      ! VIP DPS7            !
       !  4    0      ! QUESTAR DPS7        !
       -------------------------------------
```

2. PRESENTATION OF THE EXAMPLE

2.1. INTRODUCTION

THE MULTI-SCREEN GENERATION OPTION

The MULTI-SCREEN option allows for the generation of on-line programs for VIP 7700, VIP 7800, QUESTAR and IBM 3270 terminals.

With this option, a logical description of the screen map is generated as a table which is used by a sub-program for the generation of the physical description; this sub-program builds the type of map according to the value given to the type of terminal. The standard sub-program is ZAR980.

NOTE: Programs generated with this option may not be used together with programs generated with other options.

CODING OF THE TERMINAL TYPE

Using Procedural Code (-P) lines, the user must code the type of terminal for the initial screen of the dialogue. The value is thus transferred to the other screens of the dialogue by the communication area. (See Subchapter "DESCRIPTION OF VALIDATION AREAS" in this chapter.)

NOTE: If there is no initial screen in the dialogue, the value must be initialized to 0 in each program.

2.2. THE 'DO' DIALOGUE

```
--------------------------------------------------------------------------------
!                    BULL DPS7 APPLICATION                *PDLB.NDOC.AD7.247!
! ON-LINE DIALOGUE DEFINITION........: DO                                   !
!                                                                           !
! DIALOGUE NAME.....................: PACBASE DOCUMENTATION MANAG.          !
!                                                                           !
! SCREEN SIZE (LINES, COLUMNS) ......:  24      080                         !
! LABEL TYPE, TABS, INITIALIZATION...:  L       01        _                 !
! HELP CHARACTER SCREEN, DATA ELEMENT:  =        $                          !
!                                                                           !
!                                    LABELS   DISPLAY   INPUT  ER.MESS.  ER.FL!
! INTENSITY ATTRIBUTE ...............:  N        N        N       B        B !
! PRESENTATION ATTRIBUTE ............:  N        N        N       N        N !
! COLOR ATTRIBUTE ...................:  W        W        W       W        W !
!                                                                           !
! TYPE OF COBOL AND MAP TO GENERATE..:  4   C    HB DPS7 (MULTI-SCREENS)    !
! CONTROL CARD OPTIONS FRONT & BACK..:           (PROGRAM)           (MAP)!
! EXTERNAL NAMES ....................:           (PROGRAM)           (MAP)!
! TRANSACTION CODE...................:                                       !
!                                                                           !
!                                                                           !
! EXPLICIT KEYWORDS..: DOC                                                   !
! SESSION NUMBER.....: 0169        LIBRARY......: AD7    LOCK....:          !
!                                                                           !
! O: C1 CH: Odo                        ACTION:                              !
--------------------------------------------------------------------------------
```

PRESENTATION OF THE EXAMPLE   2
THE 'DO' DIALOGUE   2

```
--------------------------------------------------------------------------------
!                      BULL DPS7 APPLICATION               *PDLB.NDOC.AD7.247!
! DIALOGUE COMPLEMENT....:  DO PACBASE DOCUMENTATION MANAG.                    !
!                                                                             !
!                                                                             !
! COMMON AREA-DATA STRUCTURE CODE.......: CA                                  !
!                                                                             !
! ERROR MESSAGE FILE CHARACTERISTICS                                          !
!                    ORGANIZATION....: V                                      !
!                    EXTERNAL NAME...: EMTEST                                 !
!                                                                             !
! FIRST SCREEN CODE OF THE DIALOGUE.....: 0060                                !
!                                                                             !
! COMPLEMENTARY COMMON AREA LENGTH......:  700                                !
!                                                                             !
! CODE OF PSB OR SUB-SCHEMA.............:                                      !
!                                                                             !
!                                                                             !
! OPTIONS : OCF F10 DYNPRT OFF                                                !
!                                                                             !
!                                                                             !
!                                                                             !
! SESSION NUMBER    : 0035  LIBRARY     : AD7                                 !
!                                                                             !
! O: C1 CH: Odo O                         ACTION:                             !
--------------------------------------------------------------------------------
```

PRESENTATION OF THE EXAMPLE   **2**
THE 'DO' DIALOGUE   **2**

```
--------------------------------------------------------------------------------
!                     BULL DPS7 APPLICATION              *PDLB.NDOC.AD7.247!
! ON-LINE SCREEN GENERAL DOC.    DO    PACBASE DOCUMENTATION MANAG.          !
!                                                                           !
! A LIN : T COMMENT                                                   LIB   !
! . 200 : U DO12 THIS ITEM IS NOT AVAILABLE.                          *ACC  !
! . 220 : U CD30 TECHNICAL PROBLEM  CALL E.D.P. DEPT. (CODE DO-UTI-CD30)  *ACC  !
! . 240 : U CURS INVALID SELECTED LINE                                *ACC  !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
!         :                                                                 !
! *** END ***                                                               !
! O: C1 CH: Odo G                                                           !
--------------------------------------------------------------------------------
```

2.3. THE 'DO0030' SCREEN

```
--------------------------------------------------------------------------
!               BULL DPS7 APPLICATION                    *PDLB.NDOC.AD7.247!
! ON-LINE SCREEN DEFINITION..........: DO0030                             !
!                                                                         !
! SCREEN NAME.......................: ***  ORDER INPUT SCREEN  ***        !
!                                                                         !
! SCREEN SIZE (LINES, COLUMNS) ......:  24     080                        !
! LABEL TYPE, TABS, INITIALIZATION...:  L      01    * -                  !
! HELP CHARACTER SCREEN, DATA ELEMENT:  =         $                       !
!                                                                         !
!                                  LABELS   DISPLAY   INPUT  ER.MESS.  ER.FL!
! INTENSITY ATTRIBUTE ...............: * B      N        N      B       B !
! PRESENTATION ATTRIBUTE ............:  N       N        N      N       N !
! COLOR ATTRIBUTE ...................:  W       W        W      W       W !
!                                                                         !
! TYPE OF COBOL AND MAP TO GENERATE..:  4 * C    HB DPS7 (MULTI-SCREENS)  !
! CONTROL CARD OPTIONS FRONT & BACK..:          (PROGRAM)           (MAP)!
! EXTERNAL NAMES ....................:  DO0030P (PROGRAM)     DO0030M (MAP)!
! TRANSACTION CODE...................:                                    !
!                                                                         !
!                                                                         !
! EXPLICIT KEYWORDS..:                                                    !
! SESSION NUMBER.....: 0169        LIBRARY......: AD7    LOCK....:         !
!                                                                         !
! O: C1 CH: Odo0030                     ACTION:                           !
--------------------------------------------------------------------------
```

DDOD7000021A

```
--------------------------------------------------------------------------------
!                     BULL DPS7 APPLICATION                 *PDLB.NDOC.AD7.247!
! ON-LINE SCREEN GENERAL DOC.    DO0030 ***  ORDER INPUT SCREEN  ***         !
!                                                                            !
! A LIN : T COMMENT                                                   LIB  !
! . 020 : C     THIS SCREEN ALLOWS TO ENTER AN ORDER OF PACBASE        *ACC !
! . 030 : C     DOCUMENTATION PLACED BY A REFERENCED CLIENT.           *ACC !
! . 050 : C     FROM THIS SCREEN, YOU MAY ACCESS ANY OTHER SCREEN OF   *ACC !
! . 055 : C     THE DIALOG BY ENTERING THE CORRESPONDING CHOICE FIELD  *ACC !
! . 060 : C     VALUE. THE DIFFERENT VALUES ARE DISPLAYED IN THE       *ACC !
! . 070 : C     BOTTOM PART OF ALL THE DIALOG'S SCREENS.               *ACC !
! . 120 : S CD05                                                       *ACC !
! . 122 : U F  8 TECHNICAL PROBLEM  CALL E.D.P. DEPT.(CODE 030-CD05 F8) *ACC !
! . 124 : U F  9 TECHNICAL PROBLEM  CALL E.D.P. DEPT.(CODE 030-CD05 F9) *ACC !
! . 130 : U G  9 TECHNICAL PROBLEM  CALL E.D.P. DEPT.(CODE 030-CD05 G9) *ACC !
! . 150 : S CD10 R                                                     *ACC !
! . 152 : U F  8 INCORRECT UPDATE REQUEST.                             *ACC !
! . 154 : U F  9 INCORRECT REQUEST FOR CREATION.                       *ACC !
! . 160 : U G  9 END OF DISPLAY FOR THIS ORDER.                        *ACC !
! . 180 : S ME00 Z                                                     *ACC !
! . 190 : U G  9 TECHNICAL PROBLEM  CALL E.D.P. DEPT.(CODE 030-ME00 G9) *ACC !
! . 200 : S FO10 R                                                     *ACC !
! . 210 : U F  9 MANUAL DOES NOT BELONG TO PACBASE DOCUMENTATION.      *ACC !
!                                                                            !
! O: C1 CH: Odo0030 G                                                        !
--------------------------------------------------------------------------------
```

```
-------------------------------------------------------------------------------
!                        BULL DPS7 APPLICATION              *PDLB.NDOC.AD7.247!
! ON-LINE SCREEN GENERAL DOC.    DO0030 ***  ORDER INPUT SCREEN  ***        !
!                                                                          !
! A LIN : T COMMENT                                                  LIB  !
! . 350 : F CODMVT                                                   *ACC !
! . 360 : C     AN ACTION CODE MUST BE ENTERED.                      *ACC !
! . 400 : F FOURNI                                                   *ACC !
! . 402 : C     THE FIELD 'ITEM' IS ENTERED WITH THE 3-CHARACTER CODE  *ACC !
! . 403 : C     OF THE MANUAL. IT IS NOT POSSIBLE TO ENTER           *ACC !
! . 404 : C     REQUESTS CONCERNING THE BINDERS.                     *ACC !
! . 430 : U   A THIS PROCEDURE DOES NOT PERMIT TO ORDER BINDERS.     *ACC !
! . 450 : F MATE                                                     *ACC !
! . 451 : T   0 DOCUM DD                                             *ACC !
! . 453 : U   5 THIS TYPE OF HARDWARE IS NOT SUPPORTED BY PACBASE.   *ACC !
! . 500 : F QTMAC                                                    *ACC !
! . 510 : C     THE 'QUANTITY ORDERED' FIELD MUST BE ENTERED WITH THE  *ACC !
! . 520 : C     NUMBER OF COPIES NEEDED FOR THE SPECIFIED MANUAL.    *ACC !
! . 530 : C     ACCORDING TO STOCK AVAILABILITY, THE SYSTEM FILLS IN *ACC !
! . 540 : C     THE 'QUANTITY DELIVERED' AND, IF NEEDED, THE 'QUANTITY  *ACC !
! . 541 : C     OUTSTANDING'.                                        *ACC !
! . 600 : F INFOR                                                    *ACC !
! . 610 : C     THE 'REMARKS' COLUMN ALLOWS TO ENTER SPECIFICS       *ACC !
! . 625 : C     CONCERNING THE LEAD TIMES OF OUTSTANDING ORDERS.     *ACC !
! O: C1 CH:                                                                !
-------------------------------------------------------------------------------
```

PRESENTATION OF THE EXAMPLE   2
THE 'DO0030' SCREEN   3

```
-------------------------------------------------------------------------------
!                    BULL DPS7 APPLICATION                  *PDLB.NDOC.AD7.247!
! SCREEN CALL OF ELEM... DO0030 ***  ORDER INPUT SCREEN  ***                  !
!                                                                             !
! A LIN : D.ELEM . PHYSICAL ATTRIBUTES   . VALIDATION UPDATE .  DISPLAY       !
!        :        . P LN COL N L C HR VR .  P V U UPD TARGET .  S SOURCE    LV!
! ..........................................................................  !
!   050 : DOAC30 . A 01 001 S            .                   .                !
! . 080 : DOAP04 . A 01 001 S            .                   .                !
! . 100 : DO0030 . A 01 025 T            .                   .                !
! . 110 : NUCOM  . A 03 004 P U          .                   .  CA00          !
! . 120 : MATE   .       003 V U         . R     CD05        .  CD05          !
! . 122 :        .                       .     V SPECIAL     .                !
! . 125 : RELEA  .       012 V U         . R     CD05        .  CD05          !
! . 130 : NUCLIE .    01 004 O U         .                   .                !
! . 140 : RAISOC .       003 P F         .                   .  CA00          !
! . 145 : RUE    .    01 009 V F         .                   .                !
! . 150 : COPOS  .       003 V F N       . R   P 93CP        .  WP30          !
! . 155 :        .                       .       CD05COPOS   .  CD05COPOS     !
! . 160 : VILLE  .       003 F F         .                   .  CD05          !
! . 200 : REFCLI .    01 004 V U N       .       CD05        .  CD05          !
! . 210 : DATE   .       003 V U N       . R     CD05        .  CD05          !
! . 220 : CORRES .    01 005 V U N       . P     CD05        .  CD05          !
!                                                                             !
! O: C1 CH: Odo0030 CE                                                        !
-------------------------------------------------------------------------------
```

PRESENTATION OF THE EXAMPLE   2
THE 'DO0030' SCREEN   3

```
--------------------------------------------------------------------------------
!                     BULL DPS7 APPLICATION               *PDLB.NDOC.AD7.247!
! SCREEN CALL OF ELEM... DO0030 ***  ORDER INPUT SCREEN  ***               !
!                                                                          !
! A LIN : D.ELEM . PHYSICAL ATTRIBUTES   . VALIDATION UPDATE .  DISPLAY    !
!        :              . P LN COL N L C HR VR .  P V U UPD TARGET .  S SOURCE    LV!
! ........................................................................!
! . 230 : REMIS  .        003 V U N      .          CD05    .    CD05      !
! . 300 : LINE   . A 10 001 R 1    01 09 .                  .              !
! . 305 : CODMVT .        003 V    Y      .    I            .              !
! . 310 : FOURNI .        003 V           . R T  CD00       .    CD00      !
! . 320 : QTMAC  .        003 V           . R X  CD10       .    CD10      !
! . 325 :        .                        .    + FO10QTMAM  .              !
! . 330 : QTMAL  .        002 F           .                 .    CD10      !
! . 335 : QTMAR  .        002 F           .                 .              !
! . 340 : INFOR  .        001 V           . P X  CD10       .    CD10      !
! . 350 : END    .        004 Z           .                 .              !
! . 400 :        . A 20 002 L             .                 .              !
! . 405 : EDIT   .        001 V F         .    I  CD20      .              !
!   415 : DOAC31 . A 20 001 S             .                 .              !
!   500 : DOAP05 . A 22 001 S             .                 .              !
!       :        .                        .                 .              !
!       :        .                        .                 .              !
!                                                                          !
! O: C1 CH:                                                                !
--------------------------------------------------------------------------------
```

```
-------------------------------------------------------------------------------
!                    BULL DPS7 APPLICATION                    *PDLB.NDOC.AD7.247!
! SCREEN CALL OF ELEM... DO0030 ***  ORDER INPUT SCREEN  ***                    !
!                                                                               !
! A LIN : D.ELEM . PHYSICAL ATTRIBUTES          . LABEL                         !
!        :           . P LN COL N L HR VR IN PR CO . T LITERALS                 !
! ..............................................................................!
!   050 : DOAC30 . A 01 001 S               .                                   !
! . 080 : DOAP04 . A 01 001 S               .                                   !
! . 100 : DO0030 . A 01 025 T               .                                   !
! . 110 : NUCOM  . A 03 004 P U             .                                   !
! . 120 : MATE   .      003 V U             .                                   !
! . 122 :        .                          .                                   !
! . 125 : RELEA  .      012 V U             .                                   !
! . 130 : NUCLIE .   01 004 O U             .                                   !
! . 140 : RAISOC .      003 P F             .                                   !
! . 145 : RUE    .   01 009 V F             . P 84, OLD TOWNLINE ROAD           !
! . 150 : COPOS  .      003 V F             .                                   !
! . 155 :        .                          .                                   !
! . 160 : VILLE  .      003 F F             .                                   !
! . 200 : REFCLI .   01 004 V U             .                                   !
! . 210 : DATE   .      003 V U             . I ..__..                          !
! . 220 : CORRES .   01 005 V U             .                                   !
!                                                                               !
! O: C2 CH:                                                                     !
-------------------------------------------------------------------------------
```

DDOD7000021A

PRESENTATION OF THE EXAMPLE   **2**
THE 'DO0030' SCREEN   **3**

```
 ----------------------------------------------------------------------
!                    BULL DPS7 APPLICATION              *PDLB.NDOC.AD7.247!
! SCREEN CALL OF ELEM... DO0030 ***  ORDER INPUT SCREEN  ***            !
!                                                                      !
! A LIN : D.ELEM . PHYSICAL ATTRIBUTES        . LABEL                  !
!       :         . P LN COL N L HR VR IN PR CO . T LITERALS           !
! .....................................................................!
! . 230 : REMIS  .       003 V U              .                        !
! . 300 : LINE   . A 10 001 R 1 01 09         .                        !
! . 305 : CODMVT .       003 V                .                        !
! . 310 : FOURNI .       003 V                .                        !
! . 320 : QTMAC  .       003 V                .                        !
! . 325 :        .                            .                        !
! . 330 : QTMAL  .       002 F        B       .                        !
! . 335 : QTMAR  .       002 F                .                        !
! . 340 : INFOR  .       001 V                .                        !
! . 350 : END    .       004 Z                .                        !
! . 400 :        . A 20 002 L                 . PRINTING OF FORM  :/    !
! . 405 : EDIT   .       001 V F              .                        !
!   415 : DOAC31 . A 20 001 S                 .                        !
!   500 : DOAP05 . A 22 001 S                 .                        !
!       :        .                            .                        !
!       :        .                            .                        !
!                                                                      !
! O: C2 CH:                                                            !
 ----------------------------------------------------------------------
```

```
-------------------------------------------------------------------------------
!                    BULL DPS7 APPLICATION                  *PDLB.NDOC.AD7.247!
! ON-LINE SCREEN CALL OF SEGM. DO0030 ***   ORDER INPUT SCREEN  ***          !
! ...CA00...CD05...WP30..*CD00..*CD10..*FO10..£CD20...........................!
! A SEGM     :   USE PREC ACCESS KEY        ACCESS     D EXTERNAL LIB. S  :LIBR!
! C CODE C LN : G R D SEGM SOURCE           KEY     B O T NAME     SEGM N LV :   !
!   CD05    00 :   M A      SPACES          CLECD   V     CDTEST   CD05  12 :0005!
!   CD05    02 :            "B"             COCARA                         :0049!
!   CD05    04 :            CA00-NUCOM      NUCOM                          :0021!
!   CD10 R 00 :   T         "C"             CLECD   V     CDTEST   CD10     :0005!
!   CD10 R 02 :            CA00-NUCOM      NUCOM                          :0021!
!   CD10 R 04 :            0030-FOURNI     FOURNI                        :0021!
!   CD10 R 06 :     A      SPACES          KEYCD                         :0021!
!   CD10 R 08 :            "C"             COCARA C                      :0021!
!   CD10 R 10 :            CA00-NUCOM      NUCOM   C                     :0021!
!   FO10 R 00 :   M N CD10 0030-FOURNI     CLEFO   V 1 FOTEST   FO10     :0005!
!   FO10 R 02 :            CA00-LANGU      LANGU                         :0021!
!   FO10 R 04 :            0030-RELEA      RELEA                         :0021!
!   FO10 R 06 :            0030-MATE       MATE                          :0021!
!   CD20 Z 00 :   X N      SPACES          CLECD   V     CDTEST   CD20     :0005!
!   CD20 Z 02 :            "E"             COCARA                        :0021!
!   CD20 Z 04 :            CA00-NUCOM      NUCOM                         :0021!
!   ME00 Z 00 :   N A      CA00-CLEME      CLEME   V     METEST   ME00     :0005!
!                                                                            !
! O: C1 CH: Odo0030 CS                                                       !
-------------------------------------------------------------------------------
```

DDOD7000021A

```
  -------------------------------------------------------------------------------
  !                      BULL DPS7 APPLICATION                  *PDLB.NDOC.AD7.247!
  ! ON-LINE SCREEN CALL OF P.M.S.......:    DO0030 ***  ORDER INPUT SCREEN  *** !
  !                                                                             !
  ! A    MACRO  LN C : COMMENTS OR PARAMETER VALUES                  D E      !
  ! .    AADOCP      : WP/                                                     !
  ! .    BBDEBR      :                                                         !
  ! .    BBINIT      :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                  :                                                         !
  !                                                                           !
  ! O: C1 CH: Odo0030 CP                                                       !
  -------------------------------------------------------------------------------
```

PRESENTATION OF THE EXAMPLE   2
THE 'DO0030' SCREEN   3

```
--------------------------------------------------------------------------------
!                      BULL DPS7 APPLICATION                    *PDLB.NDOC.AD7.247!
! WORK AREAS.........ENTITY TYPE O DO0030 ***  ORDER INPUT SCREEN  ***        !
!                                                                             !
! CODE FOR PLACEMENT..:      BB                                               !
! A LIN T LEVEL OR SECTION WORK AREA DESCRIPTION                        OCCU!
! . 200 I 01              WW10-QTMAR                                          !
! . 201                   VALUE ZERO.                                         !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
!                                                                             !
! O: C1 CH: Odo0030 W                                                         !
--------------------------------------------------------------------------------
```

```
--------------------------------------------------------------------------------
!                         BULL DPS7 APPLICATION                 *PDLB.NDOC.AD7.247!
! WORK AREAS..........ENTITY TYPE O DO0030 ***  ORDER INPUT SCREEN  ***         !
!                                                                               !
! CODE FOR PLACEMENT..:        WP                                               !
! A LIN T LEVEL OR SECTION WORK AREA DESCRIPTION                           OCCU!
! * 000   01               WP00.                                                !
! * 010    02              WP10.                                                !
! * 020      05               FILLER PIC X(25) VALUE                            !
! * 030                          "23400BRISBANE              ".                 !
! * 040      05               FILLER PIC X(25) VALUE                            !
! * 050                          "56400VICTORIA           ".                    !
! * 060      05               FILLER PIC X(25) VALUE                            !
! * 070                          "76500ALICE SPRINGS        ".                  !
! * 080      05               FILLER PIC X(25) VALUE                            !
! * 090                          "55300MELBOURNE            ".                  !
! * 100      05               FILLER PIC X(25) VALUE                            !
! * 110                          "11000CANBERRA          ".                     !
! * 120      05               FILLER PIC X(25) VALUE                            !
! * 130                          "34500PERTH             ".                     !
! * 140      05               FILLER PIC X(25) VALUE                            !
! * 150                          "85270DARWIN            ".                     !
! * 160      05               FILLER PIC X(25) VALUE                            !
!                                                                               !
! O: C1 CH:                                                                     !
--------------------------------------------------------------------------------
```

```
--------------------------------------------------------------------------------
!                    BULL DPS7 APPLICATION                 *PDLB.NDOC.AD7.247!
! WORK AREAS.........ENTITY TYPE O DO0030 ***  ORDER INPUT SCREEN  ***       !
!                                                                            !
! CODE FOR PLACEMENT..:       WP                                             !
! A LIN T LEVEL OR SECTION WORK AREA DESCRIPTION                        OCCU!
! * 170                      "94000HOBART          ".                       !
! * 180      05              FILLER PIC X(25) VALUE                          !
! * 190                      "89300SYDNEY          ".                       !
! * 300      02              WP20 REDEFINES WP10 OCCURS 9.                 9!
! * 320 E    05              WP20-COPOS .                                    !
! * 340 E    05              WP20-VILLE .                                    !
! * 400      02              WP30.                                          !
! * 410 I    05              WP30-COPOS .                                    !
! * 500      02              WP40.                                          !
! * 510 E    05              WP40-VILLE.                                     !
! * 520 E    05              WP40-VILLEL.                                    !
!                                                                            !
!                                                                            !
!                                                                            !
!                                                                            !
!                                                                            !
!                                                                            !
!                                                                            !
! O: C1 CH:                                                                  !
--------------------------------------------------------------------------------
```

```
--------------------------------------------------------------------------------
!  XXXXXXXX - 0808      ***  ORDER INPUT SCREEN  ***      XXXXXXXXXX 14:45:36!
!                                                                            !
!  ORDER NUMBER: 02345   SYSTEM: DPS7             RELEASE:                    !
!  CUST.    BEST    D.P. MANAGEMENT                                           !
!     84, OLD TOWNLINE ROAD                         48016   CINCINNATI        !
!  CUST. REF.: LP-KCP  ORDER NUMBER: 05179    ORDER DATE: ..__..             !
!   COORDINATOR: MR. GUY DANCE                DISCOUNT RATE:    12.25         !
!                                                                            !
!  A    ITEM     ORDERED    DELIV.   OUTST. REMARKS                          !
!  C    DLG       3          1        2      REST TO BE DELIVERED : 05/03/91  !
!  .    ...       ..         ..       ..     .................................. !
!  .    ...       ..         ..       ..     .................................. !
!  .    ...       ..         ..       ..     .................................. !
!  .    ...       ..         ..       ..     .................................. !
!  .    ...       ..         ..       ..     .................................. !
!  .    ...       ..         ..       ..     .................................. !
!  .    ...       ..         ..       ..     .................................. !
!                                                                            !
! PRINTING OF FORM  : O  CHOICE: _ UPD : '7', ORDERS (NEXT) : '8',           !
! MENU : '1', CUSTOMER LIST : '2', CUST. HIST : '3', ORDER LIST : '4',       !
! SCREEN DOC : '=', DATA EL. DOC : '$'                                       !
! PLEASE CHECK YOUR MAILBOX, THANK YOU.                                      !
! XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX        !
--------------------------------------------------------------------------------
```

PRESENTATION OF THE EXAMPLE   **2**
THE 'DO0030' SCREEN   **3**

```
      FUSFLIN OPE OPERANDS                          LVTY CONDITION


      02CP    N    INIT. NUMBER OF LOADED ITEMS    10BL
      02CP100 M    IWP20M IWP20L


      08BB    N    NO UPDATE ==> END OF RECEIVE    10IT OPER NOT = "M"
      08BB100 GFT


      15AA    N    INITIALIZATION CATM (HEADING)   10IT CATX = SPACE
      15AA100 M    "M" CATM                         AN OPER = "M"


      20BB    N    ITEM NOT AVAILABLE              10*A FOURNI
      20BB100 ERR A FOURNI                         99IT I-0030-FOURNI = "CLA"
      20BB110 GF                                    AN CATM NOT = SPACE


      25BB    N    ACCESS TO FO10                  12*P CD10
      25BB100 M    "1" CD10-CF


      28BH    N    STOCK UPD.: ORDER DELETION/UPD  10IT (CATM = "A" OR "M")
      28BH100 A    CD10-QTMAL FO10-QTMAS            AN CATX = "R"
      28BH120                                       AN CAT-ER = SPACES


      30BD    N    QUANTITY PROCESSING             10*P R


      30BF    N    CALC. DELIV. QUANT.   STOCK UPD.12IT CATM = "C" OR "M"
      30BF100 M    I-0030-QTMAC   CD10-QTMAL       99IT FO10-QTMAS NOT <
      30BF110                                            I-0030-QTMAC
      30BF120 M    FO10-QTMAS     CD10-QTMAL       99EL
      30BF130 S    CD10-QTMAL     FO10-QTMAS       99BL
      30BF140 M    CD10-QTMAL     O-0030-QTMAL


      64DA    N    PREPARATION DISPLAY DATE/HOUR   10IT CATX = " "
      64DA 40 AD6
      64DA 80 AD   IM DATOR DAT8C
      64DA120 TIM                                  99BL
      64DA160 TIF  TIMCOG TIMDAY


      65BB    N    REMAINS TO BE DELIVERED         10*P R
      65BB100 C    WW10-QTMAR =                    99IT CD10-QTMAL NOT = ZERO
      65BB110      CD10-QTMAC - CD10-QTMAL
      65BB120 M    WW10-QTMAR   O-0030-QTMAR


      93CP    N    ZIP CODE VALIDATION             10BL
      93CP100 SCH  WP20-COPOS WP30-COPOS
      93CP200 M    "5" DEL-ER                      99IT IWP20R > IWP20L
      93CP220 GT   10
```

3. GENERATED PROGRAM / MULTI-SCREEN

3.1. BEGINNING OF PROGRAM

<u>BEGINNING OF PROGRAM</u>

The user cannot modify the IDENTIFICATION DIVISION of the generated program.

The ENVIRONMENT DIVISION is automatically adapted to the variant requested for the program.

The clause 'DECIMAL POINT IS COMMA' is generated if, on the Library Definition screen, the value in the DECIMAL POINT PRESENTATION CHARACTER field is a comma (,).

All other clauses that may be necessary in this part of the program are the user's responsibility.

All modifications to this part of the program must be done on the Beginning Insertions (-B) screen. (See the STRUCTURED CODE Reference Manual).

```
      IDENTIFICATION DIVISION.
      PROGRAM-ID. DO0030P.                              DO0030
      AUTHOR.     *** ORDER INPUT SCREEN ***.           DO0030
      DATE-COMPILED. 07/27/94.                          DO0030
      ENVIRONMENT DIVISION.                             DO0030
      CONFIGURATION SECTION.                            DO0030
      SOURCE-COMPUTER. LEVEL-64.                        DO0030
      OBJECT-COMPUTER. LEVEL-64.                        DO0030
      SPECIAL-NAMES.                                    DO0030
           DECIMAL-POINT IS COMMA                       DO0030
           OBJECT IS COMMA.                             DO0030
      INPUT-OUTPUT SECTION.                             DO0030
      FILE-CONTROL.                                     DO0030
       COPY   SELECT-CD-FILE.                           DO0030
       COPY   SELECT-EM-FILE.                           DO0030
       COPY   SELECT-FO-FILE.                           DO0030
       COPY   SELECT-HE-FILE.                           DO0030
       COPY   SELECT-ME-FILE.                           DO0030
```

3.2. SEGMENT DESCRIPTION

SEGMENT DESCRIPTION

This part of the program is generated when at least one segment is used on the screen in 'V' organization.

The segment DESCRIPTION TYPE is defined by the user on the Screen Call of Segments (-CS) screen. The types of calls are:

  . Complete segment (Common part and specific part in redefinition);

  . Specific part only;

  . Complete segment with variable length (common part and specific part in redefinition without FILLER).

A table description (segment ORGANIZATION = 'G') is preceded by the description of the Communication Area (G-ddss-PARAM) with the PACTABLE function.

PACBASE generates one Communication Area per table, i.e. per segment whose ORGANIZATION = 'G'.

Backup screen for documentation call

This file is used to save variable fields before the branching to the documentation screen. '1,932' must be the length of the file, because the size of the biggest screen is '1,920'. It is built as follows:

```
01          HE00.
    05      HE00-XTERM     PICTURE X(12).
    05      HE00-SCREEN    PICTURE X(1920).
```

'HE' is the external name used by default in the SELECT clause of the FILE SECTION. The user may change this name using On-line screen General Documentation (-G) lines in the 'O:C2' Option:

```
        G  05              XX
```

In this example, the backup file name becomes XX.

The user must also declare it in the TDS Library.

```
          DATA DIVISION.                                      DO0030
          FILE SECTION.                                       DO0030
          FD          CD-FILE                                 DO0030
               BLOCK     00001 RECORDS                        DO0030
               DATA RECORD                                    DO0030
                         CD00                                 DO0030
                         CD05                                 DO0030
                         CD10                                 DO0030
                         CD20                                 DO0030
                    LABEL RECORD STANDARD.                    DO0030
          01        CD00.                                     DO0030
            10        CD00-KEYCD.                             DO0030
              15        CD00-COCARA   PICTURE X.              DO0030
              15        CD00-NUCOM    PICTURE 9(5).           DO0030
              15        CD00-FOURNI   PICTURE X(3).           DO0030
            10        CD00-SUITE.                             DO0030
              15        FILLER        PICTURE X(00157).       DO0030
          01        CD05.                                     DO0030
            10        FILLER        PICTURE X(00009).         DO0030
            10        CD05-NUCLIE   PICTURE 9(8).             DO0030
            10        CD05-DATE     PICTURE X(6).             DO0030
            10        CD05-RELEA    PICTURE X(3).             DO0030
            10        CD05-REFCLI   PICTURE X(30).            DO0030
            10        CD05-RUE      PICTURE X(40).            DO0030
            10        CD05-COPOS    PICTURE X(5).             DO0030
            10        CD05-VILLE    PICTURE X(20).            DO0030
            10        CD05-CORRES   PICTURE X(25).            DO0030
            10        CD05-REMIS    PICTURE S9(4)V99.         DO0030
            10        CD05-MATE     PICTURE X(8).             DO0030
            10        CD05-LANGU    PICTURE X.                DO0030
            10        CD05-FILLER   PICTURE X(5).             DO0030
          01        CD10.                                     DO0030
            10        FILLER        PICTURE X(00009).         DO0030
            10        CD10-QTMAC    PICTURE 99.               DO0030
            10        CD10-QTMAL    PICTURE 99.               DO0030
            10        CD10-INFOR    PICTURE X(35).            DO0030
            10        CD10-ADFOU    PICTURE X(100).           DO0030
            10        FILLER        PICTURE X(00018).         DO0030
          01        CD20.                                     DO0030
            10        FILLER        PICTURE X(00009).         DO0030
            10        CD20-EDIT     PICTURE X.                DO0030
            10        FILLER        PICTURE X(00156).         DO0030
          FD          EM-FILE                                 DO0030
               BLOCK     00001 RECORDS                        DO0030
               DATA RECORD                                    DO0030
                         EM00                                 DO0030
                    LABEL RECORD STANDARD.                    DO0030
          01        EM00.                                     DO0030
            05        EM00-EMKEY.                             DO0030
              10        EM00-LIBRA    PICTURE X(3).           DO0030
              10        EM00-ENTYP    PICTURE X.              DO0030
              10        EM00-XEMKY.                           DO0030
                15        EM00-PROGR    PICTURE X(6).         DO0030
                15        EM00-ERCOD.                         DO0030
                  20        EM00-ERCOD9   PICTURE 9(3).       DO0030
                15        EM00-ERTYP    PICTURE X.            DO0030
              10        EM00-LINUM    PICTURE 9(3).           DO0030
            05        EM00-ERLVL    PICTURE X.                DO0030
            05        EM00-ERMSG    PICTURE X(66).            DO0030
            05        FILLER        PICTURE X(6).             DO0030
          FD          FO-FILE                                 DO0030
               BLOCK     00001 RECORDS                        DO0030
               DATA RECORD                                    DO0030
                         FO00                                 DO0030
                    LABEL RECORD STANDARD.                    DO0030
          01        FO10.                                     DO0030
            10        FO10-CLEFO.                             DO0030
              15        FO10-FOURNI   PICTURE X(3).           DO0030
              15        FO10-MATE     PICTURE X(8).           DO0030
              15        FO10-RELEA    PICTURE X(3).           DO0030
              15        FO10-LANGU    PICTURE X.              DO0030
            10        FO10-QTMAS    COMPUTATIONAL-1.          DO0030
            10        FO10-QTMAM    PICTURE 9(4).             DO0030
            10        FO10-LIBFO    PICTURE X(20).            DO0030
            10        FO10-DATE     PICTURE X(6).             DO0030
            10        FO10-HEURE    PICTURE X(8).             DO0030
            10        FO10-FILLER   PICTURE XX.               DO0030
```

DDOD7000021A

GENERATED PROGRAM / MULTI-SCREEN   3
SEGMENT DESCRIPTION   2


```
    FD            HE-FILE                                            DO0030
            BLOCK     00001 RECORDS                                  DO0030
            DATA RECORD                                              DO0030
                HE00                                                 DO0030
            LABEL RECORD STANDARD.                                   DO0030
    01            HE00.                                              DO0030
      05          HE00-XTERM    PICTURE X(12).                       DO0030
      05          HE00-SCREEN   PICTURE X(1920).                     DO0030
    FD            ME-FILE                                            DO0030
            BLOCK     00001 RECORDS                                  DO0030
            DATA RECORD                                              DO0030
                ME00                                                 DO0030
             LABEL RECORD STANDARD.                                  DO0030
    01            ME00.                                              DO0030
      10          ME00-CLEME.                                        DO0030
        15        ME00-COPERS   PICTURE X(5).                        DO0030
        15        ME00-NUMORD   PICTURE XX.                          DO0030
      10          ME00-MESSA    PICTURE X(75).                       DO0030
```

DDOD7000021A

3.3. BEGINNING OF WORKING STORAGE

BEGINNING OF WORKING-STORAGE

The 'WSS-BEGIN' level is generated at the beginning of the WORKING-STORAGE SECTION for all programs.

It contains all the variables and keys necessary for automatic processing.

IK Error indicator for file accesses.

> '0' No error.
> '1' Error.

OPER Operation code.

> 'A' Display.
> 'M' Update.
> 'S' Screen continuation.
> 'E' End.
> 'P' Previous display.
> 'O' Transfer to another screen.

OPERD Operation code for deferred branching.

> Transferred to OPER in F40.

> 'O' Deferred call of another screen.

> OPER and OPERD: If they correspond to a Data Element defined as an Operation Code on the Screen Call of Elements (-CE) screen (value 'O' in the VALIDATION CONDITIONS/SET VARIABLES field), they are processed in the F0520 function. If not, they are processed in the F20 function.

CATX Code of the category being executed.

> '0' Beginning of reception or display.
> ' ' Screen-top.
> 'R' Repetitive.
> 'Z' Screen-bottom.

CATM Transaction code.

> 'C' Creation.
> 'M' Modification.

DDOD7000021A

GENERATED PROGRAM / MULTI-SCREEN   3
BEGINNING OF WORKING STORAGE   3

'A' Deletion.
'X' Implicit update.

DDOD7000021A

ICATR Indicator for current category being processed.

(Repetitive category only)

SCR-ER Screen error indicator.

'1' no error.
'4' error.

FT End of repetitive category indicator.

'0' Lines to display.
'1' No more lines to display.

ICF Input Configuration.

'1' Screen in input.
'0' No screen in input.

OCF Output Configuration.

'1' Screen in output.
'0' No screen in output.

CAT-ER Ongoing error indicator for current category.

' ' No error.
'E' Error.

I-PFKEY Stores the function key.

INA Number of Data Elements in the screen-top category.

INR INA + Number of Data Elements in the repetitive category.

INZ INR + Number of Data Elements in the screen-bottom category.

IRR Number of repetitions in the repetitive category.

INT Number of input fields.

IER Number of error messages on the screen.

DEL-ER Memorizes Data Element error (work variable).

The following fields are used to initialize the CMES-YCRE area which is transferred to the ZAR980 sub-program in order to indicate the type of processing to be executed.

The user can also use the CMES-YCRE field on the Procedural code (-P) screen to condition the SEND of the fixed labels in the F8105 function: the SEND is not executed when the value of CMES-YCRE is set to 'G' on the '-P' screen.

7-YCREE
        Value 'E' for display.

7-YCRER
        Value 'R' for message reception.

7-YCREF
        Value 'F' for display of transaction end message.

7-YCREX
        Value 'X' for display in case of error.

7-YCREP
        Value 'P' for use of a function key.

The 'CONSTANTS' level is also generated for all programs. It contains:

. The compilation date of the on-line generator (PACE30 and PACE80), as
  well as the date of the related skeleton (these appear as comment lines),

. Information on the program and work areas generated according to the
  procedures executed in the program:

        SESSI   Session number of the generated program.
        LIBRA   Code of the library.
        DATGN   Generated program date.
        PROGR   System program code.
        PROGE   COBOL program-id.
        TIMGN   Generated program time.
        USERCO   User code.
        COBASE   Database code.

PRCGI Name of the sub-program called for screen formatting. The default value may
      be overridden using the screen General Documentation screen (-G) (see
      Chapter "DESCRIPTION OF A TRANSACTION", Subchapter "SCREEN
      GENERAL DOCUMENTATION" in the ON-LINE SYSTEMS
      DEVELOPMENT Reference Manual).

If a request for HELP documentation is entered on the Screen Definition screen,
the following fields are generated:

PRDOC: External name of the 'HELP SCREEN' program.

5-scrn-PROGE: Field containing the name of called program.
This field is filled during a screen branching operation ('scrn' = the last four
characters of the screen code).

DATCE This field includes the CENTUR field (containing the value of the current
century) and a blank date area (DATOR) in which the user can store the
processing date in a year-month-day format (DATOA-DATOM-DATOJ).

Note: if the year is less than '61', the CENTUR field is automatically
set to '20'.

DAT6 Fields for date formatting (MMDDYY or DDMMYY) and
DAT7 printing (for example DD/MM/YY).
DAT8 These fields are generated if a date processing operator is used in the '-P' lines
of the program or if a variable data element ('V') has a date format.

DATSEP This field contains the separator used for dates. The default value ('/') can be
modified by via Procedural Code (-P) lines.

DATSET This field contains the separator used for the Gregorian date.

The default value ('-') can be modified via Procedural Code (-P) lines.

DATCTY Field for century loading.

DAT6C Field for non-formatted date with century.

DAT7C Field for non-formatted date with century.

DAT8C Field for formatted date with century (DD/MM/CCYY).

DAT8G Field for the Gregorian type of date -- with century also -- (CCYY-MM-DD).

TIMCO Field for time loading.

TIMDAY Field for time formatting (HH:MM:SS).

The 'CONFIGURATIONS' level contains one variable 'ddss-CF' ('ddss' =
segment code in the generated program) for each segment accessed in the
program, which allows for conditioned access for each segment in the procedure.

```
       WORKING-STORAGE SECTION.                                     DO0030
       01              WSS-BEGIN.                                   DO0030
          05           FILLER        PICTURE X(7) VALUE "WORKING".  DO0030
          05           IK            PICTURE X.                     DO0030
          05           BLANC         PICTURE X VALUE SPACE.         DO0030
          05           OPER          PICTURE X.                     DO0030
          05           OPERD         PICTURE X VALUE SPACE.         DO0030
          05           CATX          PICTURE X.                     DO0030
          05           CATM          PICTURE X.                     DO0030
          05           ICATR         PICTURE 99.                    DO0030
          05           MCR-ER        PICTURE X.                     DO0030
          05           FT            PICTURE X.                     DO0030
          05           ICF           PICTURE X.                     DO0030
          05           OCF           PICTURE X.                     DO0030
          05           CAT-ER        PICTURE X.                     DO0030
          05           I-PFKEY       PICTURE XX.                    DO0030
          05           7-YCREE       PICTURE X VALUE "E".           DO0030
          05           7-YCREF       PICTURE X VALUE "F".           DO0030
          05           7-YCREP       PICTURE X VALUE "P".           DO0030
          05           7-YCRER       PICTURE X VALUE "R".           DO0030
          05           7-YCREX       PICTURE X VALUE "X".           DO0030
          05           INA           PICTURE 999 VALUE 009.         DO0030
          05           INR           PICTURE 999 VALUE 013.         DO0030
          05           INZ           PICTURE 999 VALUE 014.         DO0030
          05           IRR           PICTURE 99 VALUE 09.           DO0030
          05           INT           PICTURE 999 VALUE 046.         DO0030
          05           IER           PICTURE 99 VALUE 01.           DO0030
          05           DEL-ER        PICTURE X.                     DO0030
       01              PACBASE-CONSTANTS.                           DO0030
     * OLSD DATES PACE30 : 10/03/94                                 DO0030
     *          PACE80 : 10/03/94   PAC7SG : 940503                 DO0030
          05           SESSI         PICTURE X(5) VALUE "0412 ".    DO0030
          05           LIBRA         PICTURE X(3) VALUE "AD7".      DO0030
          05           DATGN         PICTURE X(8) VALUE "07/27/94". DO0030
          05           PROGR         PICTURE X(6) VALUE "DO0030".   DO0030
          05           PROGE         PICTURE X(8) VALUE "DO0030P ". DO0030
          05           TIMGN         PICTURE X(8) VALUE "17:28:02". DO0030
          05           USERCO        PICTURE X(8) VALUE "PDMM    ". DO0030
          05           PRDOC         PICTURE X(8) VALUE "DOP050".   DO0030
          05           PRCGI         PICTURE X(8) VALUE "ZAR980".   DO0030
          05           5-0030-PROGE  PICTURE X(8).                 DO0030
       01              DATCE.                                       DO0030
          05           CENTUR        PICTURE XX VALUE "19".         DO0030
          05           DATOR.                                       DO0030
            10         DATOA         PICTURE XX.                    DO0030
            10         DATOM         PICTURE XX.                    DO0030
            10         DATOJ         PICTURE XX.                    DO0030
       01              DAT6.                                        DO0030
          10           DAT61.                                       DO0030
            15         DAT619        PICTURE 99.                    DO0030
          10           DAT62.                                       DO0030
            15         DAT629        PICTURE 99.                    DO0030
          10           DAT63         PICTURE XX.                    DO0030
       01              DAT7.                                        DO0030
          10           DAT71         PICTURE XX.                    DO0030
          10           DAT72         PICTURE XX.                    DO0030
          10           DAT73         PICTURE XX.                    DO0030
       01              DAT8.                                        DO0030
          10           DAT81         PICTURE XX.                    DO0030
          10           DAT8S1        PICTURE X.                     DO0030
          10           DAT82         PICTURE XX.                    DO0030
          10           DAT8S2        PICTURE X.                     DO0030
          10           DAT83         PICTURE XX.                    DO0030
       01              DATSEP        PICTURE X VALUE "/".           DO0030
       01              DATSET        PICTURE X VALUE "-".           DO0030
       01              DATCTY.                                      DO0030
          05           DATCTY9       PICTURE 99.                    DO0030
       01              DAT6C.                                       DO0030
          10           DAT61C        PICTURE XX.                    DO0030
          10           DAT62C        PICTURE XX.                    DO0030
          10           DAT63C        PICTURE XX.                    DO0030
          10           DAT64C        PICTURE XX.                    DO0030
       01              DAT7C.                                       DO0030
          10           DAT71C        PICTURE XX.                    DO0030
          10           DAT72C        PICTURE XX.                    DO0030
          10           DAT73C        PICTURE XX.                    DO0030
          10           DAT74C        PICTURE XX.                    DO0030
```

                                                          DDOD7000021A

```
01              DAT8C.                                      DO0030
  10            DAT81C     PICTURE XX.                      DO0030
  10            DAT8S1C    PICTURE X VALUE "/".             DO0030
  10            DAT82C     PICTURE XX.                      DO0030
  10            DAT8S2C    PICTURE X VALUE "/".             DO0030
  10            DAT83C     PICTURE XX.                      DO0030
  10            DAT84C     PICTURE XX.                      DO0030
01              DAT8G.                                      DO0030
  10            DAT81G     PICTURE XX.                      DO0030
  10            DAT82G     PICTURE XX.                      DO0030
  10            DAT8S1G    PICTURE X VALUE "-".             DO0030
  10            DAT83G     PICTURE XX.                      DO0030
  10            DAT8S2G    PICTURE X VALUE "-".             DO0030
  10            DAT84G     PICTURE XX.                      DO0030
01              TIMCO.                                      DO0030
  02            TIMCOG.                                     DO0030
    05          TIMCOH     PICTURE XX.                      DO0030
    05          TIMCOM     PICTURE XX.                      DO0030
    05          TIMCOS     PICTURE XX.                      DO0030
  02            TIMCOC     PICTURE XX.                      DO0030
01              TIMDAY.                                     DO0030
  05            TIMHOU     PICTURE XX.                      DO0030
  05            TIMS1      PICTURE X VALUE ":".             DO0030
  05            TIMMIN     PICTURE XX.                      DO0030
  05            TIMS2      PICTURE X VALUE ":".             DO0030
  05            TIMSEC     PICTURE XX.                      DO0030
01              CONFIGURATIONS.                             DO0030
  05            CD05-CF    PICTURE X.                       DO0030
  05            CD10-CF    PICTURE X.                       DO0030
  05            CD20-CF    PICTURE X.                       DO0030
  05            FO10-CF    PICTURE X.                       DO0030
  05            ME00-CF    PICTURE X.                       DO0030
```

3.4. SCREEN MAP DESCRIPTION

SCREEN MAP DESCRIPTION

The WORKING-STORAGE SECTION includes the AT-0030 table which is a
logical description of the screen and contains, for each field:

  . its line-column position (YPCUR);
  . its length (LENGTH);
  . its attributes:

        (ATTRN: nature; ATTRI: intensity; ATTRP: presentation; and
        ATTRC: color).

The screen fields are coded according to the following rules:

```
.I-0030         Screen in reception.

.O-0030         Screen in display.

.I-0030-MATE    Alphanumeric reception field.

.E-0030-REMIS   Alphanumeric definition of an I-0030-REMIS
                field which is numeric in reception.

.F-0030-QTMAC   Alphanumeric definition of an O-0030-QTMAC
                field which is numeric in display.
```

The data element defining the repetitive category is coded in the screen map
description as follows:

```
     .J-0030-LINE OCCURS 10     in reception,

     .P-0030-LINE OCCURS 10     in display,
```

and contains a FILLER.

The description of the fields of the data element which defines the repetitive
category is generated outside the screen description.

This description is made up of a 'FILLER' field which is filled in with each
occurrence of the category. It is used to execute the procedures for each of the
elementary data elements.

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This description is generated according to the same rules as above, for example:

```
     .I-0030-LINE   Used for procedures in reception,

containing,

     .I-0030-FOURNI
     .E-0030-QTMAL
     etc.

     .O-0030-LINE   Used for procedures in display,

containing,

     .O-0030-FOURNI
     .O-0030-QTMAC.
```

An ordinary repetitive data element (which does not define a repetitive category) is described directly in the screen description as follows:

```
     .05 FILLER Occurs 2.
     .10 I-0030-LREF1     in reception

     .05 FILLER Occurs 2.
     .10 O-0030-LREF1     in display
```

In this case, the procedures for each occurrence of the data element are not generated and are to be inserted by the user via Structured Code (validations, transfers, etc.).

The formats used in the generated programs correspond to the following rules:

DATA ELEMENT WITH NATURE 'P'

Reception screen or display screen:

. The format is the internal format of the data element.

DATA ELEMENT WITH NATURE 'V'

Reception screen:

. The format is the internal format of the data element.

Display screen:

. For alphanumeric data elements, it is the internal format of the data element,

. For numeric data elements, it is a print format built from the internal format, with replacement of non-significant leading zeros by spaces.

DATA ELEMENT WITH A CONVERSATIONAL FORMAT

(See the SPECIFICATIONS DICTIONARY Reference Manual, Chapter "DATA ELEMENTS", Subchapter "DESCRIPTION SCREEN (-D)").

Reception screen:

. The internal format is constructed from the conversational format entered on the Data Element Description screen.

```
EXAMPLE:      -conversational format:      ZZZ99.99
              -constructed internal format: 9(5)V9(2)

Display screen:
```

. The format is the conversational format of the element entered on the Data Element Description screen.

```
01                 0030-MESSO.                                *AA040
  02               0030-MESSI.                                *AA040
    05             S01004        PICTURE X(008).              *AA040
    05             S01013        PICTURE X(001).              *AA040
    05             S01015        PICTURE X(005).              *AA040
    05             S01025        PICTURE X(030).              *AA040
    05             S01060        PICTURE X(010).              *AA040
    05             S01071        PICTURE X(008).              *AA040
    05             S03004        PICTURE X(013).              *AA040
    05             S03018        PICTURE X(005).              *AA040
    05             S03026        PICTURE X(007).              *AA040
    05             S03034        PICTURE X(008).              *AA040
    05             S03054        PICTURE X(008).              *AA040
    05             S03063        PICTURE X(003).              *AA040
    05             S04004        PICTURE X(005).              *AA040
    05             S04013        PICTURE X(050).              *AA040
    05             S05009        PICTURE X(040).              *AA040
    05             S05052        PICTURE X(020).              *AA040
    05             S05074        PICTURE X(005).              *AA040
    05             S06004        PICTURE X(011).              *AA040
    05             S06016        PICTURE X(030).              *AA040
    05             S06049        PICTURE X(011).              *AA040
    05             S06061        PICTURE X(006).              *AA040
    05             S07005        PICTURE X(012).              *AA040
    05             S07018        PICTURE X(025).              *AA040
    05             S07046        PICTURE X(014).              *AA040
    05             S07061        PICTURE X(008).              *AA040
    05             S09003        PICTURE X(001).              *AA040
    05             S09007        PICTURE X(006).              *AA040
    05             S09016        PICTURE X(008).              *AA040
    05             S09026        PICTURE X(007).              *AA040
    05             S09035        PICTURE X(006).              *AA040
    05             S09042        PICTURE X(035).              *AA040
    05             S10003        PICTURE X(001).              *AA040
    05             S10007        PICTURE X(003).              *AA040
    05             S10016        PICTURE X(002).              *AA040
    05             S10026        PICTURE X(002).              *AA040
    05             S10035        PICTURE X(002).              *AA040
    05             S10042        PICTURE X(035).              *AA040
    05             S11003        PICTURE X(001).              *AA040
    05             S11007        PICTURE X(003).              *AA040
    05             S11016        PICTURE X(002).              *AA040
    05             S11026        PICTURE X(002).              *AA040
    05             S11035        PICTURE X(002).              *AA040
    05             S11042        PICTURE X(035).              *AA040
    05             S12003        PICTURE X(001).              *AA040
    05             S12007        PICTURE X(003).              *AA040
    05             S12016        PICTURE X(002).              *AA040
    05             S12026        PICTURE X(002).              *AA040
    05             S12035        PICTURE X(002).              *AA040
    05             S12042        PICTURE X(035).              *AA040
    05             S13003        PICTURE X(001).              *AA040
    05             S13007        PICTURE X(003).              *AA040
    05             S13016        PICTURE X(002).              *AA040
    05             S13026        PICTURE X(002).              *AA040
    05             S13035        PICTURE X(002).              *AA040
    05             S13042        PICTURE X(035).              *AA040
    05             S14003        PICTURE X(001).              *AA040
    05             S14007        PICTURE X(003).              *AA040
    05             S14016        PICTURE X(002).              *AA040
    05             S14026        PICTURE X(002).              *AA040
    05             S14035        PICTURE X(002).              *AA040
    05             S14042        PICTURE X(035).              *AA040
    05             S15003        PICTURE X(001).              *AA040
    05             S15007        PICTURE X(003).              *AA040
    05             S15016        PICTURE X(002).              *AA040
    05             S15026        PICTURE X(002).              *AA040
    05             S15035        PICTURE X(002).              *AA040
    05             S15042        PICTURE X(035).              *AA040
    05             S16003        PICTURE X(001).              *AA040
    05             S16007        PICTURE X(003).              *AA040
    05             S16016        PICTURE X(002).              *AA040
    05             S16026        PICTURE X(002).              *AA040
    05             S16035        PICTURE X(002).              *AA040
    05             S16042        PICTURE X(035).              *AA040
    05             S17003        PICTURE X(001).              *AA040
    05             S17007        PICTURE X(003).              *AA040
```

```
        05              S17016      PICTURE X(002).              *AA040
        05              S17026      PICTURE X(002).              *AA040
        05              S17035      PICTURE X(002).              *AA040
        05              S17042      PICTURE X(035).              *AA040
        05              S18003      PICTURE X(001).              *AA040
        05              S18007      PICTURE X(003).              *AA040
        05              S18016      PICTURE X(002).              *AA040
        05              S18026      PICTURE X(002).              *AA040
        05              S18035      PICTURE X(002).              *AA040
        05              S18042      PICTURE X(035).              *AA040
        05              S20002      PICTURE X(019).              *AA040
        05              S20022      PICTURE X(001).              *AA040
        05              S20025      PICTURE X(007).              *AA040
        05              S20033      PICTURE X(001).              *AA040
        05              S20035      PICTURE X(010).              *AA040
        05              S20046      PICTURE X(020).              *AA040
        05              S21002      PICTURE X(027).              *AA040
        05              S21030      PICTURE X(022).              *AA040
        05              S21053      PICTURE X(017).              *AA040
        05              S22002      PICTURE X(017).              *AA040
        05              S22020      PICTURE X(018).              *AA040
        05              S23002      PICTURE X(075).              *AA040
        05              S24002      PICTURE X(072).              *AA040
  01              AT-0030-MESSO.                                 *AA041
    05              AT-S01004    PICTURE X(12) VALUE             *AA041
                                 "01003008FNNW".                *AA041
    05              AT-R000101-PROGE REDEFINES AT-S01004 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S01013    PICTURE X(12) VALUE             *AA041
                                 "01012001LNNW".                *AA041
    05              AT-S01015    PICTURE X(12) VALUE             *AA041
                                 "01014005FNNW".                *AA041
    05              AT-R000101-SESSI REDEFINES AT-S01015 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S01025    PICTURE X(12) VALUE             *AA041
                                 "01024030LBNW".                *AA041
    05              AT-S01060    PICTURE X(12) VALUE             *AA041
                                 "01059010FNNW".                *AA041
    05              AT-R000101-DATEM REDEFINES AT-S01060 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S01071    PICTURE X(12) VALUE             *AA041
                                 "01070008FNNW".                *AA041
    05              AT-R000101-HEURE REDEFINES AT-S01071 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S03004    PICTURE X(12) VALUE             *AA041
                                 "03003013LBNW".                *AA041
    05              AT-L000101-NUCOM REDEFINES AT-S03004 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S03018    PICTURE X(12) VALUE             *AA041
                                 "03017005FNNW".                *AA041
    05              AT-R000101-NUCOM REDEFINES AT-S03018 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S03026    PICTURE X(12) VALUE             *AA041
                                 "03025007LBNW".                *AA041
    05              AT-L000101-MATE REDEFINES AT-S03026 PICTURE  *AA041
                                 X(12).                         *AA041
    05              AT-S03034    PICTURE X(12) VALUE             *AA041
                                 "03033008 NNW".                *AA041
    05              AT-R000101-MATE REDEFINES AT-S03034 PICTURE  *AA041
                                 X(12).                         *AA041
    05              AT-S03054    PICTURE X(12) VALUE             *AA041
                                 "03053008LBNW".                *AA041
    05              AT-L000101-RELEA REDEFINES AT-S03054 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S03063    PICTURE X(12) VALUE             *AA041
                                 "03062003 NNW".                *AA041
    05              AT-R000101-RELEA REDEFINES AT-S03063 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S04004    PICTURE X(12) VALUE             *AA041
                                 "04003005LBNW".                *AA041
    05              AT-L000101-NUCLIE REDEFINES AT-S04004 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S04013    PICTURE X(12) VALUE             *AA041
                                 "04012050FNNW".                *AA041
    05              AT-R000101-RAISOC REDEFINES AT-S04013 PICTURE *AA041
                                 X(12).                         *AA041
    05              AT-S05009    PICTURE X(12) VALUE             *AA041
```

```
                                    "05008040 NNW".              *AA041
         05             AT-R000101-RUE REDEFINES AT-S05009 PICTURE    *AA041
                                    X(12).                       *AA041
         05             AT-S05052    PICTURE X(12) VALUE         *AA041
                                    "05051020PNNW".              *AA041
         05             AT-R000101-VILLE REDEFINES AT-S05052 PICTURE  *AA041
                                    X(12).                       *AA041
         05             AT-S05074    PICTURE X(12) VALUE         *AA041
                                    "05073005 NNW".              *AA041
         05             AT-R000101-COPOS REDEFINES AT-S05074 PICTURE  *AA041
                                    X(12).                       *AA041
         05             AT-S06004    PICTURE X(12) VALUE         *AA041
                                    "06003011LBNW".              *AA041
         05             AT-L000101-REFCLI REDEFINES AT-S06004 PICTURE *AA041
                                    X(12).                       *AA041
         05             AT-S06016    PICTURE X(12) VALUE         *AA041
                                    "06015030 NNW".              *AA041
         05             AT-R000101-REFCLI REDEFINES AT-S06016 PICTURE *AA041
                                    X(12).                       *AA041
         05             AT-S06049    PICTURE X(12) VALUE         *AA041
                                    "06048011LBNW".              *AA041
         05             AT-L000101-DATE REDEFINES AT-S06049 PICTURE   *AA041
                                    X(12).                       *AA041
         05             AT-S06061    PICTURE X(12) VALUE         *AA041
                                    "06060006 NNW".              *AA041
         05             AT-R000101-DATE REDEFINES AT-S06061 PICTURE   *AA041
                                    X(12).                       *AA041
         05             AT-S07005    PICTURE X(12) VALUE         *AA041
                                    "07004012LBNW".              *AA041
         05             AT-L000101-CORRES REDEFINES AT-S07005 PICTURE *AA041
                                    X(12).                       *AA041
         05             AT-S07018    PICTURE X(12) VALUE         *AA041
                                    "07017025 NNW".              *AA041
         05             AT-R000101-CORRES REDEFINES AT-S07018 PICTURE *AA041
                                    X(12).                       *AA041
         05             AT-S07046    PICTURE X(12) VALUE         *AA041
                                    "07045014LBNW".              *AA041
         05             AT-L000101-REMIS REDEFINES AT-S07046 PICTURE  *AA041
                                    X(12).                       *AA041
         05             AT-S07061    PICTURE X(12) VALUE         *AA041
                                    "07060008 NNW".              *AA041
         05             AT-R000101-REMIS REDEFINES AT-S07061 PICTURE  *AA041
                                    X(12).                       *AA041
         05             AT-S09003    PICTURE X(12) VALUE         *AA041
                                    "09002001LBNW".              *AA041
         05             AT-L010101-CODMVT REDEFINES AT-S09003 PICTURE *AA041
                                    X(12).                       *AA041
         05             AT-S09007    PICTURE X(12) VALUE         *AA041
                                    "09006006LBNW".              *AA041
         05             AT-L010101-FOURNI REDEFINES AT-S09007 PICTURE *AA041
                                    X(12).                       *AA041
         05             AT-S09016    PICTURE X(12) VALUE         *AA041
                                    "09015008LBNW".              *AA041
         05             AT-L010101-QTMAC REDEFINES AT-S09016 PICTURE  *AA041
                                    X(12).                       *AA041
         05             AT-S09026    PICTURE X(12) VALUE         *AA041
                                    "09025007LBNW".              *AA041
         05             AT-L010101-QTMAL REDEFINES AT-S09026 PICTURE  *AA041
                                    X(12).                       *AA041
         05             AT-S09035    PICTURE X(12) VALUE         *AA041
                                    "09034006LBNW".              *AA041
         05             AT-L010101-QTMAR REDEFINES AT-S09035 PICTURE  *AA041
                                    X(12).                       *AA041
         05             AT-S09042    PICTURE X(12) VALUE         *AA041
                                    "09041035LBNW".              *AA041
         05             AT-L010101-INFOR REDEFINES AT-S09042 PICTURE  *AA041
                                    X(12).                       *AA041
         05             AT-S10003    PICTURE X(12) VALUE         *AA041
                                    "10002001 NNW".              *AA041
         05             AT-R010101-CODMVT REDEFINES AT-S10003 PICTURE *AA041
                                    X(12).                       *AA041
         05             AT-S10007    PICTURE X(12) VALUE         *AA041
                                    "10006003 NNW".              *AA041
         05             AT-R010101-FOURNI REDEFINES AT-S10007 PICTURE *AA041
                                    X(12).                       *AA041
         05             AT-S10016    PICTURE X(12) VALUE         *AA041
                                    "10015002 NNW".              *AA041
```

```
05              AT-R010101-QTMAC REDEFINES AT-S10016 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S10026    PICTURE X(12) VALUE                *AA041
                         "10025002PBNW".                        *AA041
05              AT-R010101-QTMAL REDEFINES AT-S10026 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S10035    PICTURE X(12) VALUE                *AA041
                         "10034002PNNW".                        *AA041
05              AT-R010101-QTMAR REDEFINES AT-S10035 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S10042    PICTURE X(12) VALUE                *AA041
                         "10041035 NNW".                        *AA041
05              AT-R010101-INFOR REDEFINES AT-S10042 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S11003    PICTURE X(12) VALUE                *AA041
                         "11002001 NNW".                        *AA041
05              AT-R020101-CODMVT REDEFINES AT-S11003 PICTURE   *AA041
                         X(12).                                 *AA041
05              AT-S11007    PICTURE X(12) VALUE                *AA041
                         "11006003 NNW".                        *AA041
05              AT-R020101-FOURNI REDEFINES AT-S11007 PICTURE   *AA041
                         X(12).                                 *AA041
05              AT-S11016    PICTURE X(12) VALUE                *AA041
                         "11015002 NNW".                        *AA041
05              AT-R020101-QTMAC REDEFINES AT-S11016 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S11026    PICTURE X(12) VALUE                *AA041
                         "11025002PBNW".                        *AA041
05              AT-R020101-QTMAL REDEFINES AT-S11026 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S11035    PICTURE X(12) VALUE                *AA041
                         "11034002PNNW".                        *AA041
05              AT-R020101-QTMAR REDEFINES AT-S11035 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S11042    PICTURE X(12) VALUE                *AA041
                         "11041035 NNW".                        *AA041
05              AT-R020101-INFOR REDEFINES AT-S11042 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S12003    PICTURE X(12) VALUE                *AA041
                         "12002001 NNW".                        *AA041
05              AT-R030101-CODMVT REDEFINES AT-S12003 PICTURE   *AA041
                         X(12).                                 *AA041
05              AT-S12007    PICTURE X(12) VALUE                *AA041
                         "12006003 NNW".                        *AA041
05              AT-R030101-FOURNI REDEFINES AT-S12007 PICTURE   *AA041
                         X(12).                                 *AA041
05              AT-S12016    PICTURE X(12) VALUE                *AA041
                         "12015002 NNW".                        *AA041
05              AT-R030101-QTMAC REDEFINES AT-S12016 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S12026    PICTURE X(12) VALUE                *AA041
                         "12025002PBNW".                        *AA041
05              AT-R030101-QTMAL REDEFINES AT-S12026 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S12035    PICTURE X(12) VALUE                *AA041
                         "12034002PNNW".                        *AA041
05              AT-R030101-QTMAR REDEFINES AT-S12035 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S12042    PICTURE X(12) VALUE                *AA041
                         "12041035 NNW".                        *AA041
05              AT-R030101-INFOR REDEFINES AT-S12042 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S13003    PICTURE X(12) VALUE                *AA041
                         "13002001 NNW".                        *AA041
05              AT-R040101-CODMVT REDEFINES AT-S13003 PICTURE   *AA041
                         X(12).                                 *AA041
05              AT-S13007    PICTURE X(12) VALUE                *AA041
                         "13006003 NNW".                        *AA041
05              AT-R040101-FOURNI REDEFINES AT-S13007 PICTURE   *AA041
                         X(12).                                 *AA041
05              AT-S13016    PICTURE X(12) VALUE                *AA041
                         "13015002 NNW".                        *AA041
05              AT-R040101-QTMAC REDEFINES AT-S13016 PICTURE    *AA041
                         X(12).                                 *AA041
05              AT-S13026    PICTURE X(12) VALUE                *AA041
                         "13025002PBNW".                        *AA041
05              AT-R040101-QTMAL REDEFINES AT-S13026 PICTURE    *AA041
```

```
                                  X(12).                           *AA041
      05          AT-S13035     PICTURE X(12) VALUE                *AA041
                                  "13034002PNNW".                  *AA041
      05          AT-R040101-QTMAR REDEFINES AT-S13035 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S13042     PICTURE X(12) VALUE                *AA041
                                  "13041035 NNW".                  *AA041
      05          AT-R040101-INFOR REDEFINES AT-S13042 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S14003     PICTURE X(12) VALUE                *AA041
                                  "14002001 NNW".                  *AA041
      05          AT-R050101-CODMVT REDEFINES AT-S14003 PICTURE    *AA041
                                  X(12).                           *AA041
      05          AT-S14007     PICTURE X(12) VALUE                *AA041
                                  "14006003 NNW".                  *AA041
      05          AT-R050101-FOURNI REDEFINES AT-S14007 PICTURE    *AA041
                                  X(12).                           *AA041
      05          AT-S14016     PICTURE X(12) VALUE                *AA041
                                  "14015002 NNW".                  *AA041
      05          AT-R050101-QTMAC REDEFINES AT-S14016 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S14026     PICTURE X(12) VALUE                *AA041
                                  "14025002PBNW".                  *AA041
      05          AT-R050101-QTMAL REDEFINES AT-S14026 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S14035     PICTURE X(12) VALUE                *AA041
                                  "14034002PNNW".                  *AA041
      05          AT-R050101-QTMAR REDEFINES AT-S14035 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S14042     PICTURE X(12) VALUE                *AA041
                                  "14041035 NNW".                  *AA041
      05          AT-R050101-INFOR REDEFINES AT-S14042 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S15003     PICTURE X(12) VALUE                *AA041
                                  "15002001 NNW".                  *AA041
      05          AT-R060101-CODMVT REDEFINES AT-S15003 PICTURE    *AA041
                                  X(12).                           *AA041
      05          AT-S15007     PICTURE X(12) VALUE                *AA041
                                  "15006003 NNW".                  *AA041
      05          AT-R060101-FOURNI REDEFINES AT-S15007 PICTURE    *AA041
                                  X(12).                           *AA041
      05          AT-S15016     PICTURE X(12) VALUE                *AA041
                                  "15015002 NNW".                  *AA041
      05          AT-R060101-QTMAC REDEFINES AT-S15016 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S15026     PICTURE X(12) VALUE                *AA041
                                  "15025002PBNW".                  *AA041
      05          AT-R060101-QTMAL REDEFINES AT-S15026 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S15035     PICTURE X(12) VALUE                *AA041
                                  "15034002PNNW".                  *AA041
      05          AT-R060101-QTMAR REDEFINES AT-S15035 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S15042     PICTURE X(12) VALUE                *AA041
                                  "15041035 NNW".                  *AA041
      05          AT-R060101-INFOR REDEFINES AT-S15042 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S16003     PICTURE X(12) VALUE                *AA041
                                  "16002001 NNW".                  *AA041
      05          AT-R070101-CODMVT REDEFINES AT-S16003 PICTURE    *AA041
                                  X(12).                           *AA041
      05          AT-S16007     PICTURE X(12) VALUE                *AA041
                                  "16006003 NNW".                  *AA041
      05          AT-R070101-FOURNI REDEFINES AT-S16007 PICTURE    *AA041
                                  X(12).                           *AA041
      05          AT-S16016     PICTURE X(12) VALUE                *AA041
                                  "16015002 NNW".                  *AA041
      05          AT-R070101-QTMAC REDEFINES AT-S16016 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S16026     PICTURE X(12) VALUE                *AA041
                                  "16025002PBNW".                  *AA041
      05          AT-R070101-QTMAL REDEFINES AT-S16026 PICTURE     *AA041
                                  X(12).                           *AA041
      05          AT-S16035     PICTURE X(12) VALUE                *AA041
                                  "16034002PNNW".                  *AA041
      05          AT-R070101-QTMAR REDEFINES AT-S16035 PICTURE     *AA041
                                  X(12).                           *AA041
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05              AT-S16042    PICTURE X(12) VALUE         *AA041
                             "16041035 NNW".             *AA041
05              AT-R070101-INFOR REDEFINES AT-S16042 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S17003    PICTURE X(12) VALUE         *AA041
                             "17002001 NNW".             *AA041
05              AT-R080101-CODMVT REDEFINES AT-S17003 PICTURE *AA041
                             X(12).                      *AA041
05              AT-S17007    PICTURE X(12) VALUE         *AA041
                             "17006003 NNW".             *AA041
05              AT-R080101-FOURNI REDEFINES AT-S17007 PICTURE *AA041
                             X(12).                      *AA041
05              AT-S17016    PICTURE X(12) VALUE         *AA041
                             "17015002 NNW".             *AA041
05              AT-R080101-QTMAC REDEFINES AT-S17016 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S17026    PICTURE X(12) VALUE         *AA041
                             "17025002PBNW".             *AA041
05              AT-R080101-QTMAL REDEFINES AT-S17026 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S17035    PICTURE X(12) VALUE         *AA041
                             "17034002PNNW".             *AA041
05              AT-R080101-QTMAR REDEFINES AT-S17035 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S17042    PICTURE X(12) VALUE         *AA041
                             "17041035 NNW".             *AA041
05              AT-R080101-INFOR REDEFINES AT-S17042 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S18003    PICTURE X(12) VALUE         *AA041
                             "18002001 NNW".             *AA041
05              AT-R090101-CODMVT REDEFINES AT-S18003 PICTURE *AA041
                             X(12).                      *AA041
05              AT-S18007    PICTURE X(12) VALUE         *AA041
                             "18006003 NNW".             *AA041
05              AT-R090101-FOURNI REDEFINES AT-S18007 PICTURE *AA041
                             X(12).                      *AA041
05              AT-S18016    PICTURE X(12) VALUE         *AA041
                             "18015002 NNW".             *AA041
05              AT-R090101-QTMAC REDEFINES AT-S18016 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S18026    PICTURE X(12) VALUE         *AA041
                             "18025002PBNW".             *AA041
05              AT-R090101-QTMAL REDEFINES AT-S18026 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S18035    PICTURE X(12) VALUE         *AA041
                             "18034002PNNW".             *AA041
05              AT-R090101-QTMAR REDEFINES AT-S18035 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S18042    PICTURE X(12) VALUE         *AA041
                             "18041035 NNW".             *AA041
05              AT-R090101-INFOR REDEFINES AT-S18042 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S20002    PICTURE X(12) VALUE         *AA041
                             "20001019LBNW".             *AA041
05              AT-S20022    PICTURE X(12) VALUE         *AA041
                             "20021001 NNW".             *AA041
05              AT-R000101-EDIT REDEFINES AT-S20022 PICTURE   *AA041
                             X(12).                      *AA041
05              AT-S20025    PICTURE X(12) VALUE         *AA041
                             "20024007LNNW".             *AA041
05              AT-L000101-CHOIX REDEFINES AT-S20025 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S20033    PICTURE X(12) VALUE         *AA041
                             "20032001 NNW".             *AA041
05              AT-R000101-CHOIX REDEFINES AT-S20033 PICTURE  *AA041
                             X(12).                      *AA041
05              AT-S20035    PICTURE X(12) VALUE         *AA041
                             "20034010LNNW".             *AA041
05              AT-S20046    PICTURE X(12) VALUE         *AA041
                             "20045020LNNW".             *AA041
05              AT-S21002    PICTURE X(12) VALUE         *AA041
                             "21001027LNNW".             *AA041
05              AT-S21030    PICTURE X(12) VALUE         *AA041
                             "21029022LNNW".             *AA041
05              AT-S21053    PICTURE X(12) VALUE         *AA041
                             "21052017LNNW".             *AA041
05              AT-S22002    PICTURE X(12) VALUE         *AA041
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                              "22001017LNNW".                *AA041
     05              AT-S22020    PICTURE X(12) VALUE         *AA041
                              "22019018LNNW".                *AA041
     05              AT-S23002    PICTURE X(12) VALUE         *AA041
                              "23001075FBNW".                *AA041
     05              AT-R000101-MESSA REDEFINES AT-S23002 PICTURE  *AA041
                              X(12).                         *AA041
     05              AT-S24002    PICTURE X(12) VALUE         *AA041
                              "24001072FBNW".                *AA041
     05              AT-R000101-ERMSG REDEFINES AT-S24002 PICTURE  *AA041
                              X(12).                         *AA041
 01              AT-0030-MESSA REDEFINES AT-0030-MESSO.      *AA041
     05          AT-0030-LIGNE OCCURS 098.                   *AA041
        10       AT-0030-YPCUR PICTURE 9(5).                 *AA041
        10       AT-0030-LENGTH PICTURE 999.                 *AA041
        10       AT-0030-ATTRN PICTURE X.                    *AA041
        10       AT-0030-ATTRI PICTURE X.                    *AA041
        10       AT-0030-ATTRP PICTURE X.                    *AA041
        10       AT-0030-ATTRC PICTURE X.                    *AA041
 01              INPUT-0030.                                 *AA042
     05          R20033       PICTURE X(1).                  *AA042
     05          R03034       PICTURE X(8).                  *AA042
     05          R03063       PICTURE X(3).                  *AA042
     05          R05009       PICTURE X(40).                 *AA042
     05          R05052       PICTURE X(20).                 *AA042
     05          R05074       PICTURE X(5).                  *AA042
     05          R06016       PICTURE X(30).                 *AA042
     05          R06061       PICTURE X(6).                  *AA042
     05          R07018       PICTURE X(25).                 *AA042
     05          R07061       PICTURE X(8).                  *AA042
     05          R10003       PICTURE X(1).                  *AA042
     05          R10007       PICTURE X(3).                  *AA042
     05          R10016       PICTURE X(2).                  *AA042
     05          R10026       PICTURE X(2).                  *AA042
     05          R10035       PICTURE X(2).                  *AA042
     05          R10042       PICTURE X(35).                 *AA042
     05          R11003       PICTURE X(1).                  *AA042
     05          R11007       PICTURE X(3).                  *AA042
     05          R11016       PICTURE X(2).                  *AA042
     05          R11026       PICTURE X(2).                  *AA042
     05          R11035       PICTURE X(2).                  *AA042
     05          R11042       PICTURE X(35).                 *AA042
     05          R12003       PICTURE X(1).                  *AA042
     05          R12007       PICTURE X(3).                  *AA042
     05          R12016       PICTURE X(2).                  *AA042
     05          R12026       PICTURE X(2).                  *AA042
     05          R12035       PICTURE X(2).                  *AA042
     05          R12042       PICTURE X(35).                 *AA042
     05          R13003       PICTURE X(1).                  *AA042
     05          R13007       PICTURE X(3).                  *AA042
     05          R13016       PICTURE X(2).                  *AA042
     05          R13026       PICTURE X(2).                  *AA042
     05          R13035       PICTURE X(2).                  *AA042
     05          R13042       PICTURE X(35).                 *AA042
     05          R14003       PICTURE X(1).                  *AA042
     05          R14007       PICTURE X(3).                  *AA042
     05          R14016       PICTURE X(2).                  *AA042
     05          R14026       PICTURE X(2).                  *AA042
     05          R14035       PICTURE X(2).                  *AA042
     05          R14042       PICTURE X(35).                 *AA042
     05          R15003       PICTURE X(1).                  *AA042
     05          R15007       PICTURE X(3).                  *AA042
     05          R15016       PICTURE X(2).                  *AA042
     05          R15026       PICTURE X(2).                  *AA042
     05          R15035       PICTURE X(2).                  *AA042
     05          R15042       PICTURE X(35).                 *AA042
     05          R16003       PICTURE X(1).                  *AA042
     05          R16007       PICTURE X(3).                  *AA042
     05          R16016       PICTURE X(2).                  *AA042
     05          R16026       PICTURE X(2).                  *AA042
     05          R16035       PICTURE X(2).                  *AA042
     05          R16042       PICTURE X(35).                 *AA042
     05          R17003       PICTURE X(1).                  *AA042
     05          R17007       PICTURE X(3).                  *AA042
     05          R17016       PICTURE X(2).                  *AA042
     05          R17026       PICTURE X(2).                  *AA042
     05          R17035       PICTURE X(2).                  *AA042
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     05           R17042      PICTURE X(35).              *AA042
     05           R18003      PICTURE X(1).               *AA042
     05           R18007      PICTURE X(3).               *AA042
     05           R18016      PICTURE X(2).               *AA042
     05           R18026      PICTURE X(2).               *AA042
     05           R18035      PICTURE X(2).               *AA042
     05           R18042      PICTURE X(35).              *AA042
     05           R20022      PICTURE X(1).               *AA042
 01               INPUT-SCREEN-FIELDS REDEFINES INPUT-0030.   *AA045
   02             I-0030.                                 *AA045
     03           I-0030-BEGIN.                           *AA045
       05         I-0030-CHOIX  PICTURE X.                *AA045
       05         I-0030-MATE   PICTURE X(8).             *AA045
       05         I-0030-RELEA  PICTURE X(3).             *AA045
       05         I-0030-RUE    PICTURE X(40).            *AA045
       05         I-0030-VILLE  PICTURE X(20).            *AA045
       05         I-0030-COPOS  PICTURE X(5).             *AA045
       05         I-0030-REFCLI PICTURE X(30).            *AA045
       05         I-0030-DATE   PICTURE X(6).             *AA045
       05         I-0030-CORRES PICTURE X(25).            *AA045
       05         E-0030-REMIS.                           *AA045
         10       I-0030-REMIS  PICTURE S9(4)V99.         *AA045
         10       FILLER        PICTURE X(2).             *AA045
     03           J-0030-LINE   OCCURS 9.                 *AA045
         10       FILLER        PICTURE X(45).            *AA045
     03           I-0030-END.                             *AA045
       05         I-0030-EDIT   PICTURE X.                *AA045
 01               OUTPUT-0030.                            *AA049
   05             T20033      PICTURE X(1).               *AA049
   05             T01004      PICTURE X(8).               *AA049
   05             T01015      PICTURE X(5).               *AA049
   05             T01060      PICTURE X(10).              *AA049
   05             T01071      PICTURE X(8).               *AA049
   05             T03018      PICTURE X(5).               *AA049
   05             T03034      PICTURE X(8).               *AA049
   05             T03063      PICTURE X(3).               *AA049
   05             T04013      PICTURE X(50).              *AA049
   05             T05009      PICTURE X(40).              *AA049
   05             T05052      PICTURE X(20).              *AA049
   05             T05074      PICTURE X(5).               *AA049
   05             T06016      PICTURE X(30).              *AA049
   05             T06061      PICTURE X(6).               *AA049
   05             T07018      PICTURE X(25).              *AA049
   05             T07061      PICTURE X(8).               *AA049
   05             T10003      PICTURE X(1).               *AA049
   05             T10007      PICTURE X(3).               *AA049
   05             T10016      PICTURE X(2).               *AA049
   05             T10026      PICTURE X(2).               *AA049
   05             T10035      PICTURE X(2).               *AA049
   05             T10042      PICTURE X(35).              *AA049
   05             T11003      PICTURE X(1).               *AA049
   05             T11007      PICTURE X(3).               *AA049
   05             T11016      PICTURE X(2).               *AA049
   05             T11026      PICTURE X(2).               *AA049
   05             T11035      PICTURE X(2).               *AA049
   05             T11042      PICTURE X(35).              *AA049
   05             T12003      PICTURE X(1).               *AA049
   05             T12007      PICTURE X(3).               *AA049
   05             T12016      PICTURE X(2).               *AA049
   05             T12026      PICTURE X(2).               *AA049
   05             T12035      PICTURE X(2).               *AA049
   05             T12042      PICTURE X(35).              *AA049
   05             T13003      PICTURE X(1).               *AA049
   05             T13007      PICTURE X(3).               *AA049
   05             T13016      PICTURE X(2).               *AA049
   05             T13026      PICTURE X(2).               *AA049
   05             T13035      PICTURE X(2).               *AA049
   05             T13042      PICTURE X(35).              *AA049
   05             T14003      PICTURE X(1).               *AA049
   05             T14007      PICTURE X(3).               *AA049
   05             T14016      PICTURE X(2).               *AA049
   05             T14026      PICTURE X(2).               *AA049
   05             T14035      PICTURE X(2).               *AA049
   05             T14042      PICTURE X(35).              *AA049
   05             T15003      PICTURE X(1).               *AA049
   05             T15007      PICTURE X(3).               *AA049
   05             T15016      PICTURE X(2).               *AA049
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     05            T15026      PICTURE X(2).            *AA049
     05            T15035      PICTURE X(2).            *AA049
     05            T15042      PICTURE X(35).           *AA049
     05            T16003      PICTURE X(1).            *AA049
     05            T16007      PICTURE X(3).            *AA049
     05            T16016      PICTURE X(2).            *AA049
     05            T16026      PICTURE X(2).            *AA049
     05            T16035      PICTURE X(2).            *AA049
     05            T16042      PICTURE X(35).           *AA049
     05            T17003      PICTURE X(1).            *AA049
     05            T17007      PICTURE X(3).            *AA049
     05            T17016      PICTURE X(2).            *AA049
     05            T17026      PICTURE X(2).            *AA049
     05            T17035      PICTURE X(2).            *AA049
     05            T17042      PICTURE X(35).           *AA049
     05            T18003      PICTURE X(1).            *AA049
     05            T18007      PICTURE X(3).            *AA049
     05            T18016      PICTURE X(2).            *AA049
     05            T18026      PICTURE X(2).            *AA049
     05            T18035      PICTURE X(2).            *AA049
     05            T18042      PICTURE X(35).           *AA049
     05            T20022      PICTURE X(1).            *AA049
     05            T23002      PICTURE X(75).           *AA049
     05            T24002      PICTURE X(72).           *AA049
 01               OUTPUT-SCREEN-FIELDS REDEFINES OUTPUT-0030.    *AA050
   02             O-0030.                              *AA050
     03           O-0030-BEGIN.                        *AA050
       05         O-0030-CHOIX  PICTURE X.             *AA050
       05         O-0030-PROGE  PICTURE X(8).          *AA050
       05         O-0030-SESSI  PICTURE X(5).          *AA050
       05         O-0030-DATEM  PICTURE X(10).         *AA050
       05         O-0030-HEURE  PICTURE X(8).          *AA050
       05         O-0030-NUCOM  PICTURE 9(5).          *AA050
       05         O-0030-MATE   PICTURE X(8).          *AA050
       05         O-0030-RELEA  PICTURE X(3).          *AA050
       05         O-0030-RAISOC PICTURE X(50).         *AA050
       05         O-0030-RUE    PICTURE X(40).         *AA050
       05         O-0030-VILLE  PICTURE X(20).         *AA050
       05         O-0030-COPOS  PICTURE X(5).          *AA050
       05         O-0030-REFCLI PICTURE X(30).         *AA050
       05         O-0030-DATE   PICTURE X(6).          *AA050
       05         O-0030-CORRES PICTURE X(25).         *AA050
       05         F-0030-REMIS.                        *AA050
         10       O-0030-REMIS  PICTURE -(04)9,9(02).  *AA050
     03           P-0030-LINE   OCCURS 9.              *AA050
       10         FILLER        PICTURE X(45).         *AA050
     03           O-0030-END.                          *AA050
       05         O-0030-EDIT   PICTURE X.             *AA050
       05         O-0030-MESSA  PICTURE X(75).         *AA050
       05         O-0030-ERMS.                         *AA050
         10       FILLER        OCCURS 1.              *AA050
           15     O-0030-ERMSG  PICTURE X(72).         *AA050
 01               REPEAT-LINE.                         *AA050
   02             I-0030-LINE.                         *AA050
     05           I-0030-CODMVT PICTURE X.             *AA050
     05           I-0030-FOURNI PICTURE X(3).          *AA050
     05           E-0030-QTMAC.                        *AA050
       10         I-0030-QTMAC  PICTURE 99.            *AA050
     05           I-0030-QTMAL  PICTURE 99.            *AA050
     05           I-0030-QTMAR  PICTURE 99.            *AA050
     05           I-0030-INFOR  PICTURE X(35).         *AA050
   02             O-0030-LINE.                         *AA050
     05           O-0030-CODMVT PICTURE X.             *AA050
     05           O-0030-FOURNI PICTURE X(3).          *AA050
     05           F-0030-QTMAC.                        *AA050
       10         O-0030-QTMAC  PICTURE Z(01)9.        *AA050
     05           O-0030-QTMAL  PICTURE 99.            *AA050
     05           O-0030-QTMAR  PICTURE 99.            *AA050
     05           O-0030-INFOR  PICTURE X(35).         *AA050
 01               VARIABLES-GROUPE.
   02             T-0030-LINE.
     05           T-0030-CODMVT PICTURE X(1).
     05           T-0030-FOURNI PICTURE X(3).
     05           T-0030-QTMAC  PICTURE X(2).
     05           T-0030-INFOR  PICTURE X(35).
   02             L-0030-LINE.
     05           L-0030-CODMVT PICTURE X.
```

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GENERATED PROGRAM / MULTI-SCREEN   3
SCREEN MAP DESCRIPTION   4


```
        05      L-0030-FOURNI PICTURE X.
        05      L-0030-QTMAC  PICTURE X.
        05      L-0030-INFOR  PICTURE X.
```

GENERATED PROGRAM / MULTI-SCREEN
SCREEN MAP DESCRIPTION

3.5. DESCRIPTION OF VALIDATION AREAS

<u>DESCRIPTION OF VALIDATION AREAS</u>

The "validation processing" part of the program, which is always generated in
the WORKING-STORAGE SECTION, includes all the work areas necessary for
the generated validation processing, and an area for communication with the sub-
program, 'CMES-COMMUNICATION'.

<u>NUMERIC FIELDS OF THE SCREEN</u>

The 'NUMERIC-FIELDS' level is generated when the screen includes at least
one variable Data Element.

Field '9-scrn-delco' (scrn = last 4 characters of the screen code) is generated for
each numeric Data Element. It contains the breakdown of the Data Element's
VALUE in 'seedd' where:

 s = ' ' non-signed Data Element.

            '+' signed Data Element.

 ee = number of digits in the integer part of the Data Element.

 dd = number of digits in the decimal part of the Data Element.

CMES-COMMUNICATION

The 'CMES-COMMUNICATION' level is filled in via a MOVE within the program. It contains:

YR00 Message.

YO00 Table of logical fields, containing their descriptions (line-column position, length, attributes).

PFKEY When PFKEYs can be used on a terminal, the ZAR980 sub-program loads this field.

IND1 Length of the message after a RECEIVE and before a SEND.

IND2 Length of the message: this field is used when the message is longer than 2,000 characters (DPS8 only).

YMAT Type of terminal: this field is initialized to zero in   function F0110. Using Procedural Code (-P) lines, the user must code the type of terminal in use for the initial screen of the dialogue (if it is defined):

```
'0' (default value)  : QUESTAR,
'1'                  : VIP7700,
'2'                  : IBM3270,
'3'                  : VIP7800,
```

This value is transferred to the other screens of the dialogue through the COMMUNICATION SECTION.

YCRE Type of operation (Receive, Send, Display in case of error, etc.).

YPCUR Cursor position (line-column).

END-CONVERSATION

This field is used for conversation end, and includes:

END-MESSAGE Message displayed at the conversation end (length: 30 characters; initial
value: blank),

END-ATTR Used to position the cursor at the top left-hand corner of the screen.

0030-MPRIOR

This field contains the first transaction message.

VALIDATION VARIABLES

The 'VALIDATION-TABLE-FIELDS' level is generated if there is at least one variable data element (NATURE = 'V') used on the screen.

DE-ERR : memorizes the presence and/or status of each Data Element of the screen.

A position in this table (coded ER-scrn-delco) is associated with each Data Element of the screen. This is generated at the '05' level ('scrn' = last four characters of the screen code).

Depending on the stages of validation, this position can be set to the following values:

    .0 Data Element absent.
    .1 Data Element present.
    .2 Invalid absence of data element.
    .4 Erroneous class.
    .5 Invalid content.

This table of error positions is structured according to the categories defined on the screen and the group data element in the following manner:

A group level for the Data Elements from the beginning of the screen is systematically generated in the form of:

    ER-nn-BEGIN.

For a repetitive Data Element defining a repetitive area of the screen (data element on the screen with NATURE = 'R'), the generation of the error positions is as follows:

    .03 ES-scrn-LINE OCCURS 9.
    .05 FILLER PICTURE X(0004).

In this example:

    LINE is the code of the Data Element with NATURE = 'R' (see above),
    9   is the number of repetitions,
    0004 is the number of Data Elements in the repetitive category.

After the table of errors, there is an area which will contain the error positions of the Data Elements from the repetitive category. This area is used to position the errors for each of these data elements, with each occurrence.

     .02 ER-nn-LINE.

     .05 ER-nn-CODMVT PICTURE X.

     .05 ER-nn-FOURNI PICTURE X.
     etc.

For a repetitive Data Element whose NATURE is other than 'R', the generation in the table of error positions does not provide the description of the sample item, but does provide the following:

     .05 FILLER OCCURS 2.

     .10 ER-nn-LREF1 PICTURE X.

A group level for the Data Elements from the screen-bottom category is generated using a Data Element whose NATURE = 'Z', which contains the error positions of Data Elements belonging to that category:

     .03 ER-nn-END.

     .05 ER-nn-EDIT PICTURE X.
     etc.

TT-DAT

The 'TT-DAT' level is generated if a variable Data Element (NATURE = 'V')
contains a 'date' format. It is used in sub-function F8120-M for date formatting
purposes.

LEAP-YEAR

The 'LEAP-YEAR' level is generated if a variable Data Element (NATURE =
'V') contains a 'date' format (always generated with CICS). It is used in F81-ER
to determine whether or not the year is a leap year.

USERS-ERROR

The 'USERS-ERROR' level is always generated, and it contains:

XEMKY: Table position used to build the key, including:

        'XPROGR' Name of the program or dialogue,
        'XERCD' Error number and type of error,

T-XEMKY: Table of errors, corresponding to the number of error messages on the screen
         (default value = 1).

INDEXES

The 'INDEXES' level is always generated. It includes:

K01, K02, K03, K04
        Indexes for automatic numeric class.

K50R, K50L, K50M
        Indexes associated with the table of user errors (the value assigned to
        K50M directly relates to the number of vertical repetitions of Data
        Element 'ERMSG' in the screen description).

5-dd00-LTH
        Length of longest Segment of the Data Structure (common part +
        specific part; 'dd' = code of the Data Structure).

5-ddss-LTH
        Length of the Segment without the common part (not generated for
        the common part, 'dd00'; 'ddss' = code of the Segment).

5-ddss-LTHV
        Length of the Data Structure Segment including the common part (not
        generated for the common part, 'dd00'; 'ddss' = code of the Segment).

LTH Calculation area used during access to files with a Table or VSAM
        ORGANIZATION.

    KEYLTH
        Calculation area of the key used during access to files with a VSAM
        ORGANIZATION.

5-scrn-LENGTH
        Area containing the length of the communication area (scrn = last
        four char. of screen code).

NUMERIC-VALIDATION-FIELDS

The 'NUMERIC-VALIDATION-FIELDS' level is generated if there is at least one variable numeric field on the screen. It contains the work areas necessary for analyzing and formatting numeric Data Elements on the screen (refer to subchapter "F81 : CALLED VALIDATION FUNCTIONS").

```
01                NUMERIC-FIELDS.                                 *AA050
   05             9-0030-REMIS  PICTURE X(5) VALUE "+0402".        *AA050
   05             9-0030-QTMAC  PICTURE X(5) VALUE " 0200".        *AA050
01                CMES-COMMUNICATION.                             *AA060
   05             CMES-YR00     PICTURE X(4000).                  *AA060
   05             CMES-YO00     PICTURE X(3798).                  *AA060
   05             CMES-PFKEY    PICTURE XX.                       *AA060
   05             CMES-IND1     COMP-1.                           *AA060
   05             CMES-IND2     COMP-1.                           *AA060
   05             CMES-YMAT     PICTURE X.                        *AA060
   05             CMES-YCRE     PICTURE X.                        *AA060
   05             CMES-YPCUR    PICTURE X(5) VALUE SPACE.         *AA060
01                END-CONVERSATION.                              *AA070
   05             END-MESSAGE   PICTURE X(30) VALUE SPACE.       *AA070
   05             END-ATTR      PICTURE X(12) VALUE              *AA070
                                "01001030FNNW".                  *AA070
01                0030-MPRIOR   PICTURE X(80).                    *AA076
01                VALIDATION-TABLE-FIELDS.                        *AA150
   02             DE-ERR.                                        *AA150
     05           DE-ER         PICTURE X OCCURS 046.            *AA150
   02             DE-E          REDEFINES DE-ERR.                *AA150
     03           ER-0030-BEGIN.                                 *AA150
       05         ER-0030-CHOIX PICTURE X.                       *AA150
       05         ER-0030-MATE  PICTURE X.                       *AA150
       05         ER-0030-RELEA PICTURE X.                       *AA150
       05         ER-0030-RUE   PICTURE X.                       *AA150
       05         ER-0030-COPOS PICTURE X.                       *AA150
       05         ER-0030-REFCLI PICTURE X.                      *AA150
       05         ER-0030-DATE  PICTURE X.                       *AA150
       05         ER-0030-CORRES PICTURE X.                      *AA150
       05         ER-0030-REMIS PICTURE X.                       *AA150
     03           PS-30-LINE    OCCURS 9.                        *AA150
       05         FILLER        PICTURE X(0004).                 *AA150
     03           ER-0030-END.                                   *AA150
       05         ER-0030-EDIT  PICTURE X.                       *AA150
   02             ER-0030-LINE.                                  *AA150
     05           ER-0030-CODMVT PICTURE X.                      *AA150
     05           ER-0030-FOURNI PICTURE X.                      *AA150
     05           ER-0030-QTMAC PICTURE X.                       *AA150
     05           ER-0030-INFOR PICTURE X.                       *AA150
01                TT-DAT.                                         *AA200
   05             T-DAT         PICTURE X OCCURS 5.              *AA200
01                LEAP-YEAR.                                      *AA200
   05             LEAP-FLAG     PICTURE X.                        *AA200
   05             LEAP-REM      PICTURE 99.                       *AA200
01                USERS-ERROR.                                    *AA200
   05             XEMKY.                                         *AA200
     10           XPROGR        PICTURE X(6).                    *AA200
     10           XERCD         PICTURE X(4).                    *AA200
   05             T-XEMKY       OCCURS 01.                       *AA200
     10           T-XPROGR      PICTURE X(6).                    *AA200
     10           T-XERCD       PICTURE X(4).                    *AA200
01                PACBASE-INDEXES COMPUTATIONAL-1.                *AA200
   05             K01           PICTURE S9(4).                   *AA200
   05             K02           PICTURE S9(4).                   *AA200
   05             K03           PICTURE S9(4).                   *AA200
   05             K04           PICTURE S9(4).                   *AA200
   05             K50R          PICTURE S9(4) VALUE ZERO.        *AA200
   05             K50L          PICTURE S9(4) VALUE ZERO.        *AA200
   05             K50M          PICTURE S9(4) VALUE +01.         *AA200
   05             IWP20L        PICTURE S9(4) VALUE ZERO.        *AA200
   05             IWP20R        PICTURE S9(4) VALUE ZERO.        *AA200
   05             IWP20M        PICTURE S9(4) VALUE +0009.       *AA200
   05             5-CD00-LTH    PICTURE S9(4) VALUE +0166.       *AA200
   05             5-CD05-LTH    PICTURE S9(4) VALUE +0157.       *AA200
   05             5-CD10-LTH    PICTURE S9(4) VALUE +0139.       *AA200
   05             5-CD20-LTH    PICTURE S9(4) VALUE +0001.       *AA200
   05             5-FO00-LTH    PICTURE S9(4) VALUE +0057.       *AA200
   05             5-FO10-LTH    PICTURE S9(4) VALUE +0057.       *AA200
   05             5-ME00-LTH    PICTURE S9(4) VALUE +0082.       *AA200
   05             5-CA00-LTH    PICTURE S9(4) VALUE +0147.       *AA200
   05             5-CD05-LTHV   PICTURE S9(4) VALUE +0166.       *AA200
   05             5-CD10-LTHV   PICTURE S9(4) VALUE +0148.       *AA200
   05             5-CD20-LTHV   PICTURE S9(4) VALUE +0010.       *AA200
   05             5-FO10-LTHV   PICTURE S9(4) VALUE +0057.       *AA200
   05             LTH           PICTURE S9(4) VALUE ZERO.        *AA200
   05             5-0030-LENGTH PICTURE S9(4) VALUE +0895.       *AA200
```

```
 01                 NUMERIC-VALIDATION-FIELDS.                  *AA200
   05               ZONUM1.                                     *AA200
     10             C1            PICTURE X OCCURS 27.           *AA200
   05               ZONUM2.                                     *AA200
     10             C2            OCCURS 18.                     *AA200
       15           C29           PICTURE S9.                    *AA200
   05               ZONUM9        REDEFINES ZONUM2 PICTURE 9(18). *AA200
   05               NUMPIC.                                     *AA200
     10             SIGNE         PICTURE X.                     *AA200
     10             NBCHA         PICTURE 99.                    *AA200
     10             NBCHP         PICTURE 99.                    *AA200
   05               C9            PICTURE S9.                    *AA200
   05               C91           PICTURE X.                     *AA200
   05               TPOINT        PICTURE X.                     *AA200
   05               ZONUM3.                                     *AA200
     10             C3            PICTURE X OCCURS 18.           *AA200
   05               ZONUM4        REDEFINES ZONUM3 PICTURE 9(18). *AA200
   05               ZONUM5        PICTURE S99 VALUE -10.         *AA200
   05               ZONUM6        REDEFINES ZONUM5.             *AA200
     10             FILLER        PICTURE X.                     *AA200
     10             C4            PICTURE X.                     *AA200
```

3.6. ATTRIBUTE TABLE-SEGMENT VARIABLES

TABLE-OF-ATTRIBUTES AND SEGMENT VARIABLES

The 'TABLE-OF-ATTRIBUTES' level is generated if the screen includes at least one variable Data Element (NATURE = 'V').

The DE-ATT table is the image of DE-ERR repeated four times. It is used to store the attributes of the Data Elements on the screen.

It is used to set the error attributes (which have been defined at the screen level) for a Data Element in error (for the management of this table refer to Subchapter "ERROR PROCESSING (F70)", Chapter "GENERATED PROGRAM: PROCEDURE DIVISION").

The coding for each Data Element is formatted as follows:
```
  .A-scrn-MATE   (A) for non-repetitive Data Elements

  .B-scrn-LINE   (B) for the Data Elements defining a
                     repetitive category (Nature 'R').
```

NOTE: 'scrn' = the last four characters of the screen code.

The table positions correspond to the attributes:

    A = 1 Intensity attribute.
    A = 2 Presentation attribute.
    A = 3 Color attribute.
    A = 4 Cursor positioned on the Data Element.

After the Table-of-Attributes, there is an area detailing the attributes of the Data Elements of the repetitive category. This area is used to position the attributes of each occurrence of these Data Elements.

```
    .02  A-0030-LINE   OCCURS 4.
    .05  A-0030-CODMVT PICTURE X.
    .05  A-0030-FOURNI PICTURE X.
    etc.
```

The 'STOP-FIELDS' level is generated if a display control break has been
defined for at least one Data Element of the repetitive category (display control
break 'C' for a Data Element of a Segment used on the screen):

                .02 C-0030
                .05 C-0030-COCARA   PICTURE X.
                .05 C-0030-NUCOM   PICTURE 9(5).

These areas are used to store the value of a Data Element which must remain
constant in the display.

The 'FIRST-ON-SEGMENT' level is generated when at least one Segment that is
not preceded by an access to another Segment, is used on display in the
repetitive category.

In this case, a variable is generated for each Segment, indicating the first access
to the Segment (key to be loaded in order to read the Segment on display).

Example:

                05 CD10-FST   PICTURE X.

                .'1' First on the Segment,
                .'0' Next read of the Segment.

```
   01             TABLE-OF-ATTRIBUTES.                         *AA250
     02           DE-ATT.                                      *AA250
       03         DE-ATT1       OCCURS 4.                      *AA250
         05       DE-AT         PICTURE X OCCURS 046.          *AA250
     02           DE-A          REDEFINES DE-ATT.              *AA250
       03         DE-ATT2       OCCURS 4.                      *AA250
         04       A-0030-BEGIN.                                *AA250
           05     A-0030-CHOIX  PICTURE X.                     *AA250
           05     A-0030-MATE   PICTURE X.                     *AA250
           05     A-0030-RELEA  PICTURE X.                     *AA250
           05     A-0030-RUE    PICTURE X.                     *AA250
           05     A-0030-COPOS  PICTURE X.                     *AA250
           05     A-0030-REFCLI PICTURE X.                     *AA250
           05     A-0030-DATE   PICTURE X.                     *AA250
           05     A-0030-CORRES PICTURE X.                     *AA250
           05     A-0030-REMIS  PICTURE X.                     *AA250
         04       B-0030-LINE   OCCURS 9.                      *AA250
           05     FILLER        PICTURE X(0004).               *AA250
         04       A-0030-END.                                  *AA250
           05     A-0030-EDIT   PICTURE X.                     *AA250
     02           A-0030-LINE   OCCURS 4.                      *AA250
         05       A-0030-CODMVT PICTURE X.                     *AA250
         05       A-0030-FOURNI PICTURE X.                     *AA250
         05       A-0030-QTMAC  PICTURE X.                     *AA250
         05       A-0030-INFOR  PICTURE X.                     *AA250
   01             AT-SV.                                       *AA260
     10           FILLER        PICTURE X(6) VALUE "089NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "010NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "012NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "015NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "017NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "019NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "021NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "023NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "025NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "032NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "033NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "034NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "037NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "038NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "039NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "040NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "043NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "044NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "045NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "046NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "049NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "050NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "051NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "052NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "055NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "056NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "057NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "058NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "061NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "062NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "063NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "064NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "067NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "068NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "069NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "070NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "073NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "074NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "075NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "076NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "079NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "080NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "081NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "082NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "085NNW".   *AA260
     10           FILLER        PICTURE X(6) VALUE "087NNW".   *AA260
   01             TABLE-SV-AT   REDEFINES AT-SV.               *AA265
     02           LIGNE-SV-AT   OCCURS 046.                    *AA265
         05       SV-AT         PICTURE 999.                   *AA265
         05       SV-ATTRI      PICTURE X.                     *AA265
         05       SV-ATTRP      PICTURE X.                     *AA265
```

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```
      05            SV-ATTRC    PICTURE X.                    *AA265
01                  STOP-FIELDS.                              *AA300
  02                C-0030.                                   *AA300
    05              C-0030-COCARA PICTURE X.                  *AA300
    05              C-0030-NUCOM  PICTURE 9(5).               *AA300
01                  FIRST-ON-SEGMENT.                         *AA301
    05              CD10-FST    PICTURE X.                    *AA301
```

3.7. EXAMPLE OF SCREEN WORK AREAS (-W)

```
      01              WW10-QTMAR   PICTURE 99 VALUE ZERO.        *BB200
      01              WP00.                                      *WP000
       02             WP10.                                      *WP010
        05            FILLER       PIC X(25) VALUE               *WP020
                                   "23400BRISBANE          ".    *WP030
        05            FILLER       PIC X(25) VALUE               *WP040
                                   "56400VICTORIA          ".    *WP050
        05            FILLER       PIC X(25) VALUE               *WP060
                                   "76500ALICE SPRINGS     ".    *WP070
        05            FILLER       PIC X(25) VALUE               *WP080
                                   "55300MELBOURNE         ".    *WP090
        05            FILLER       PIC X(25) VALUE               *WP100
                                   "11000CANBERRA          ".    *WP110
        05            FILLER       PIC X(25) VALUE               *WP120
                                   "34500PERTH             ".    *WP130
        05            FILLER       PIC X(25) VALUE               *WP140
                                   "85270DARWIN            ".    *WP150
        05            FILLER       PIC X(25) VALUE               *WP160
                                   "94000HOBART            ".    *WP170
        05            FILLER       PIC X(25) VALUE               *WP180
                                   "89300SYDNEY            ".    *WP190
       02             WP20         REDEFINES WP10 OCCURS 9.       *WP300
        05            WP20-COPOS   PICTURE X(5).                  *WP320
        05            WP20-VILLE   PICTURE X(20).                 *WP340
       02             WP30.                                       *WP400
        05            WP30-COPOS   PICTURE X(5).                  *WP410
       02             WP40.                                       *WP500
        05            WP40-VILLE   PICTURE X(20).                 *WP510
        05            WP40-VILLEL  PICTURE X(20).                 *WP520
```

3.8. LINKAGE SECTION

<u>LINKAGE SECTION</u>

The 'TRANSACTION-STORAGE' level is generated according to the values entered on the Dialogue Complement (-O) screen and the access keys of the segments used in display.

This level is the common area used by every screen of the dialogue.

. K-S0030-YMAT (except DPS7 FORMS)

> Always generated; used to store the type of screen used.

. K-S0030-PROGR

> Always generated; used to store the screen code.

. K-S0030-XTERM

> Always generated; used to store the terminal code.

If a documentation help character has been entered on the Screen Definition screen, the following fields are generated:

. K-S0030-DOC

> HELP function indicator:

>> '0' No backup created for the screen,
>> '1' Backup created for the screen,
>> '2' Request for screen-level documentation,
>> '3' Request for field-level documentation.

. K-S0030-PROGE

> Used to store the external name of the calling program.

. K-S0030-LIBRA

> Used to store the library code.

. K-S0030-PROHE

. K-S0030-ERCOD

. K-S0030-ERTYP

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. K-S0030-LINUM

Technological fields reserved for the 'HELP' Function program.

CA00 Data Structure describing the user Common Area (if the data structure contains several segments, they are described in 'redefines' clauses).

K-0030 Complementary field for memorization of the dialogue (see Subchapter "DIALOGUE COMPLEMENT", Chapter "DESCRIPTION OF A TRANSACTION" in the OLSD Reference Manual).

The following fields are used to store the access keys of segments used in display (without a preceding segment):

K-A0030-BEGIN
Automatic generation of screen-top category.

K-AC005-CLECD

Key of the screen-top category.

K-R0030-LINE OCCURS 2
Generated according to the data element defining the repetitive category (the 1st occurrence stores the beginning of display key; the 2nd stores the display key of the next screen (i.e. page).

K-RCD10-CLECD

Key for repetitive category.

K-Z0030-END
Key of the screen-bottom category (generated according to the data element defining the screen-bottom category).

K-ZME00-CLEME

Key of the screen-bottom category.

ZONES-VARIABLES
Generated if the chosen generation option is 'MDT OFF' or "Dynamic protection of variable fields". This level retrieves the description of the variable fields of the screen. The description of the fields belonging to the data element defining the repetitive category is generated after the screen description. This level retrieves also a table of attributes for each variable field of the screen. This table will be used in case of a field protection.

A FILLER aligns the K-0030 and 'ZONES-VARIABLES' fields on 100 positions (by default), unless the user has specified a greater length on the Dialogue Complement (-O) screen.

```
0004).
LINKAGE SECTION.                                          DO0030
COPY TDS-STORAGE.                                         *0Z010
COPY CONSTANT-STORAGE.                                    *0Z015
01              TRANSACTION-STORAGE.                      *0Z020
  02            K-S0030-YMAT  PICTURE X.                  *00000
  02            K-S0030-PROGR PICTURE X(6).               *00000
  02            K-S0030-XTERM PICTURE X(12).              *00000
  02            CA00.                                     *00001
   10           CA00-CLECD.                               *00001
     15         CA00-NUCOM    PICTURE 9(5).               *00001
   10           CA00-CLECL1.                              *00001
     15         CA00-NUCLIE   PICTURE 9(8).               *00001
   10           CA00-ME00.                                *00001
     15         CA00-CLEME.                               *00001
       20       CA00-COPERS   PICTURE X(5).               *00001
       20       CA00-NUMORD   PICTURE XX.                 *00001
     15         CA00-MESSA    PICTURE X(75).              *00001
   10           CA00-PREM     PICTURE X.                  *00001
   10           CA00-LANGU    PICTURE X.                  *00001
   10           CA00-RAISOC   PICTURE X(50).              *00001
  02            K-S0030-DOC   PICTURE X.                  *00002
  02            K-S0030-PROGE PICTURE X(8).               *00002
  02            K-S0030-LIBRA PICTURE XXX.                *00002
  02            K-S0030-PROHE PICTURE X(8).               *00002
  02            K-S0030-ERCOD.                            *00002
   05           K-S0030-ERCOD9 PICTURE 999.              *00002
  02            K-S0030-ERTYP PICTURE X.                  *00002
  02            K-S0030-LINUM PICTURE 999.                *00002
  02            K-S0030-PFKEY PICTURE XX.                 *00002
  02            K-0030.                                   *00002
   03           K-A0030-DEBUT.                            *00002
     05         K-ACD05-CLECD PICTURE X(9).               *00002
   03           K-R0030-LINE  OCCURS 2.                   *00002
     05         K-RCD10-CLECD PICTURE X(9).               *00002
   03           K-Z0030-END.                              *00002
     05         K-ZME00-CLEME PICTURE X(7).               *00002
   02           ZONES-VARIABLES.                          *00002
   03           T-0030-BEGIN.
   05           T-0030-CHOIX  PICTURE X(1).
   05           T-0030-MATE   PICTURE X(8).
   05           T-0030-RELEA  PICTURE X(3).
   05           T-0030-RUE    PICTURE X(40).
   05           T-0030-COPOS  PICTURE X(5).
   05           T-0030-REFCLI PICTURE X(30).
   05           T-0030-DATE   PICTURE X(10).
   05           T-0030-CORRES PICTURE X(25).
   05           T-0030-REMIS  PICTURE X(8).
   03           U-0030-LINE   OCCURS 9.
   05           FILLER        PICTURE X(0041).
   03           T-0030-END.
   05           T-0030-EDIT   PICTURE X(1).
   02           L-MDAT.
     05         L-MDATTN PIC X OCCURS 046.
   02           L-MDATR  REDEFINES L-MDAT.
   03           L-0030-BEGIN.
   05           L-0030-CHOIX  PICTURE X.
   05           L-0030-MATE   PICTURE X.
   05           L-0030-RELEA  PICTURE X.
   05           L-0030-RUE    PICTURE X.
   05           L-0030-COPOS  PICTURE X.
   05           L-0030-REFCLI PICTURE X.
   05           L-0030-DATE   PICTURE X.
   05           L-0030-CORRES PICTURE X.
   05           L-0030-REMIS  PICTURE X.
   03           LG-0030-LINE  OCCURS 9.
   05           FILLER        PICTURE X(0004).
   03           L-0030-END.
   05           L-0030-EDIT   PICTURE X.
  02            FILLER        PICTURE X(0119).
```

DDOD7000021A

COMMUNICATION SECTION

The COMMUNICATION SECTION is a communication area which is specific
to the system, and is not managed by the user. It is generated after the LINKAGE
SECTION.

```
        COMMUNICATION SECTION.                              *90010
        CD  7-CD01        INPUT                             *90020
            SYMBOLIC QUEUE          7-CD01-CTRAN            *90030
            MESSAGE DATE           7-CD01-XDATE            *90040
            MESSAGE TIME           7-CD01-XTIME            *90050
            SYMBOLIC SOURCE        7-CD01-XTERM            *90060
            TEXT LENGTH            7-CD01-XLOMES           *90070
            END KEY                7-CD01-XFINME           *90080
            STATUS KEY             7-CD01-XMSTA.           *90090
        CD  7-CD02        OUTPUT                            *90100
            DESTINATION COUNT      7-CD02-XNDEST           *90110
            TEXT LENGTH            7-CD02-XLOMES           *90120
            STATUS KEY             7-CD02-XMSTA            *90130
            ERROR  KEY             7-CD02-XMERR            *90140
            SYMBOLIC DESTINATION   7-CD02-XTERM.           *90150
        PROCEDURE DIVISION USING TDS-STORAGE CONSTANT-STORAGE    *99999
            TRANSACTION-STORAGE.                           *99999
```

4. GENERATED PROGRAM: PROCEDURE DIVISION

4.1. F01 : INITIALIZATIONS

F01 : INITIALIZATIONS

The INITIALIZATIONS (F01) function is always generated.

It contains the initializations of work areas, of the input field attributes, and of the screen description table AT-0030-MESSO.

It ensures (in the first screen of the dialogue PRIOR-TPR) the first RECEIVE in a FILLER (length = 80).

It triggers the procedure to be executed in case of error.

It ensures the branching to the physical display function after consultation of HELP documentation (if a documentation call character is entered on the Screen Definition screen).

```
*        ***********************************         DO0030
*        *                                 *         DO0030
*        *  INITIALIZATIONS                *         DO0030
*        *                                 *         DO0030
*        ***********************************         DO0030
 F01.                                                DO0030
     EXIT.                                           DO0030
 F0105.                                              DO0030
     MOVE ZERO TO K01.                               DO0030
 F0105-B.                                            DO0030
     ADD 1 TO K01.                                   DO0030
     MOVE SV-AT (K01) TO K02.                        DO0030
     MOVE SV-ATTRI (K01) TO AT-0030-ATTRI (K02)      DO0030
     MOVE SV-ATTRP (K01) TO AT-0030-ATTRP (K02)      DO0030
     MOVE SV-ATTRC (K01) TO AT-0030-ATTRC (K02).     DO0030
     IF     K01  <  INT                              DO0030
        GO TO F0105-B.                               DO0030
 F0105-FN.                                           DO0030
     EXIT.                                           DO0030
 F0110.                                              DO0030
     ACCEPT TIMCO FROM TIME.                         DO0030
     ACCEPT DATOR FROM DATE.                         DO0030
     MOVE ZERO TO CATX FT K50L.                      DO0030
     MOVE "1" TO ICF OCF SCR-ER.                     DO0030
     MOVE ZERO TO VALIDATION-TABLE-FIELDS.           DO0030
     MOVE ZERO TO 7-CD01-XMSTA 7-CD02-XMSTA.         DO0030
     MOVE SPACE TO CATM OPER OPERD CAT-ER.           DO0030
     MOVE SPACE TO TABLE-OF-ATTRIBUTES.              DO0030
     MOVE ZERO TO CONFIGURATIONS.                    DO0030
     MOVE SYMBOLIC-QUEUE TO 7-CD01-CTRAN.            DO0030
     IF     PROGR NOT =  K-S0030-PROGR               DO0030
        MOVE ZERO TO ICF.                            DO0030
     IF     PRIOR-TPR  =  SPACE                      DO0030
        MOVE ZERO TO ICF K-S0030-DOC                 DO0030
        RECEIVE 7-CD01 MESSAGE INTO 0030-MPRIOR NO DATA   DO0030
           MOVE "1" TO IK.                           DO0030
     IF     PRIOR-TPR  =  SPACE                      DO0030
        PERFORM F81ES THRU F81ES-FN                  DO0030
        MOVE 7-CD01-XTERM TO K-S0030-XTERM.          DO0030
     MOVE LOW-VALUE TO O-0030.                       DO0030
     IF     ICF  =  ZERO                             DO0030
        PERFORM F8115 THRU F8115-FN.                 DO0030
     MOVE K-S0030-XTERM TO HE00-XTERM.               DO0030
     IF     K-S0030-DOC  =  "2"                      DO0030
        OR  K-S0030-DOC  =  "3"                      DO0030
           MOVE "1" TO K-S0030-DOC                   DO0030
           GO TO F8Z05.                              DO0030
     MOVE "X" TO DE-AT (4, 010).                     DO0030
     MOVE SPACE TO O-0030-ERMSG (01).                DO0030
 F0110-FN.                                           DO0030
     EXIT.                                           DO0030
 F0160.                                              DO0030
     IF     ICF  =  ZERO                             DO0030
        MOVE "A" TO OPER                             DO0030
        GO TO F3999-ITER-FT.                         DO0030
 F0160-FN.                                           DO0030
     EXIT.                                           DO0030
 F01-FN.                                             DO0030
     EXIT.                                           DO0030
*        +----------------------------------+        P000
* LEVEL 10   I INIT. NUMBER OF LOADED ITEMS    I     P000
*        +----------------------------------+        P000
 F02CP.                                              P000
     MOVE IWP20M TO IWP20L.                          P100
 F02CP-FN.                                           P000
     EXIT.                                           P000
```

DDOD7000021A

4.2. F05 : RECEPTION AND OPERATION CODE

F05 : RECEPTION

The F05 paragraph contains the conditions for all the procedures which have to do with the 'RECEPTION' part of the program: from F05 to END-OF-RECEPTION (F45-FN).

In general, all the automatic functions in this part of the program are generated if at least one variable data element (NATURE = 'V') is defined on the screen.

Sub-function F0510 contains the reception of the screen in the area used for communication with the sub-program which is called by a 'CALL'.

If an initialization character has been specified on the Screen Definition screen, it will be replaced by blanks (except when a branch to a "HELP" screen is executed).

The F0512 sub-function is generated if a documentation call has been entered on the Screen Definition screen. It initializes the fields that are necessary for branching to the "HELP" screen.

The F0520 sub-function is generated if a variable data element from the screen, or a special PFKEY data element, is defined as an Operation Code on the Screen Call of Elements.

The internal Operation Code 'OPER' is set according to the:

  - Value of the screen data element defined as an Operation Code (values specified with TYPE OF LINE = 'O' on the Data Element Description (-D) screen;
  - Value of the PFKEY data element (entered on the Screen Call of Elements (-CE)).

If an error is found in the value of the Operation Code, subsequent 'reception' procedures are not executed.

```
*           ***********************************           DO0030
*           *                                 *           DO0030
*           *   RECEPTION                      *           DO0030
*           *                                 *           DO0030
*           ***********************************           DO0030
 F05.                                                     DO0030
     IF    ICF = ZERO                                     DO0030
         GO TO END-OF-RECEPTION.                          DO0030
 F0510.                                                   DO0030
     PERFORM F81RE THRU F81RE-FN.                         DO0030
     IF    ICF = ZERO                                     DO0030
         GO TO END-OF-RECEPTION.                          DO0030
     PERFORM F81ES THRU F81ES-FN.                         DO0030
     MOVE 7-CD01-XTERM TO K-S0030-XTERM.                  DO0030
     MOVE 7-CD01-XLOMES TO CMES-IND1.                     DO0030
     MOVE AT-0030-MESSA TO CMES-YO00.                     DO0030
     MOVE K-S0030-YMAT TO CMES-YMAT.                      DO0030
     MOVE K-S0030-PFKEY TO CMES-PFKEY.                    DO0030
     MOVE 7-YCRER TO CMES-YCRE.                           DO0030
     CALL PRCGI USING CMES-COMMUNICATION                  DO0030
     IF    CMES-YR00 = ALL "*"                            DO0030
         MOVE ZERO TO ICF                                 DO0030
         GO TO END-OF-RECEPTION.                          DO0030
     MOVE CMES-PFKEY TO I-PFKEY K-S0030-PFKEY.            DO0030
     IF    CMES-YCRE = 7-YCREP                            DO0030
         MOVE CMES-IND1 TO 7-CD02-XLOMES                  DO0030
         MOVE 1 TO 7-CD02-XNDEST                          DO0030
         MOVE K-S0030-XTERM TO 7-CD02-XTERM               DO0030
         SEND 7-CD02 FROM CMES-YR00 WITH EGI AFTER ADVANCING 0  DO0030
     LINES                                                DO0030
             PERFORM F81ES THRU F81ES-FN                  DO0030
             GO TO F8Z10-G.                               DO0030
     MOVE CMES-YR00 TO 0030-MESSO.                        DO0030
     PERFORM F8155 THRU F8155-FN.                         DO0030
     MOVE "A" TO OPER                                     DO0030
     MOVE SPACE TO OPERD.                                 DO0030
     PERFORM F8150 THRU F8150-FN.                         DO0030
     IF    K-S0030-ERCOD = ZERO                           DO0030
         EXAMINE I-0030 REPLACING ALL "-" BY SPACE.       DO0030
 F0510-FN.                                                DO0030
     EXIT.                                                DO0030
 F0512.                                                   DO0030
     IF    K-S0030-ERCOD NOT = ZERO                       DO0030
         NEXT SENTENCE                                    DO0030
     ELSE                                                 DO0030
         GO TO F0512-FN.                                  DO0030
     MOVE "2" TO K-S0030-DOC                              DO0030
     MOVE PROGE TO K-S0030-PROGE                          DO0030
     MOVE LIBRA TO K-S0030-LIBRA.                         DO0030
     IF    K-S0030-ERCOD NOT = SPACE                      DO0030
         MOVE "3" TO K-S0030-DOC.                         DO0030
     MOVE K-S0030-XTERM TO HE00-XTERM                     DO0030
     PERFORM F80-HELP-R THRU F80-FN                       DO0030
     MOVE HE00-SCREEN TO O-0030                           DO0030
     PERFORM F8130 THRU F8130-FN                          DO0030
     MOVE O-0030 TO HE00-SCREEN                           DO0030
     PERFORM F80-HELP-RW THRU F80-FN                      DO0030
     MOVE PRDOC TO 5-0030-PROGE K-S0030-PROHE             DO0030
     MOVE "O" TO OPER                                     DO0030
     GO TO F4040.                                         DO0030
 F0512-FN.                                                DO0030
     EXIT.                                                DO0030
*           ***********************************           DO0030
*           *                                 *           DO0030
*           *   VALIDATION OF OPERATION CODE   *          DO0030
*           *                                 *           DO0030
*           ***********************************           DO0030
 F0520.                                                   DO0030
     IF    I-0030-CHOIX = "1"                             DO0030
         MOVE "DO0000 " TO 5-0030-PROGE                   DO0030
         MOVE "O" TO OPER                                 DO0030
         GO TO F40-A.                                     DO0030
     IF    I-0030-CHOIX = "2"                             DO0030
         MOVE "DO0010 " TO 5-0030-PROGE                   DO0030
         MOVE "O" TO OPER                                 DO0030
         GO TO F40-A.                                     DO0030
     IF    I-0030-CHOIX = "3"                             DO0030
```

```
            MOVE "DO0020  " TO 5-0030-PROGE              DO0030
            MOVE "O" TO OPER                             DO0030
            GO TO F40-A.                                 DO0030
      IF     I-0030-CHOIX  =  "4"                        DO0030
            MOVE "DO0040  " TO 5-0030-PROGE              DO0030
            MOVE "O" TO OPER                             DO0030
            GO TO F40-A.                                 DO0030
      IF     I-0030-CHOIX  =  "5"                        DO0030
            MOVE "DO0050  " TO 5-0030-PROGE              DO0030
            MOVE "O" TO OPER                             DO0030
            GO TO F40-A.                                 DO0030
      IF     I-0030-CHOIX  =  "0"                        DO0030
            MOVE "DO0070  " TO 5-0030-PROGE              DO0030
            MOVE "O" TO OPER                             DO0030
            GO TO F40-A.                                 DO0030
      IF     I-0030-CHOIX  =  "7"                        DO0030
            MOVE "M" TO OPER                             DO0030
            GO TO F0520-900.                             DO0030
      IF     I-0030-CHOIX  =  "8"                        DO0030
            MOVE "S" TO OPER                             DO0030
            GO TO F0520-900.                             DO0030
         MOVE "5" TO ER-0030-CHOIX                       DO0030
         MOVE "4" TO SCR-ER                              DO0030
         GO TO F3999-ITER-FT.                            DO0030
    F0520-900.                                           DO0030
      IF     OPER NOT  =  "A"                            DO0030
          AND OPER NOT  =  "M"                           DO0030
          AND OPER NOT  =  "O"                           DO0030
            GO TO F3999-ITER-FT.                         DO0030
    F0520-FN.                                            DO0030
       EXIT.                                             DO0030
    F05-FN.                                              DO0030
       EXIT.                                             DO0030
    *          +--------------------------------+        P000
    * LEVEL 10   I NO UPDATE ==> END OF RECEIVE    I     P000
    *          +--------------------------------+        P000
     F08BB.                                              P000
      IF     OPER NOT  =  "M"                            P000
         NEXT SENTENCE                                   P000
       ELSE                                              P000
            GO TO F08BB-FN.                              P000
         GO TO F3999-ITER-FT.                            P100
     F08BB-FN.                                           P000
       EXIT.                                             P000
```

4.3. F10 : CATEGORY PROCESSING LOOP

F10 : CATEGORY POSITIONING

The CATEGORY POSITIONING function positions the category to be
processed in 'RECEPTION' using the CATX indicator which may be set to one
of the following values:

> '0' Beginning of RECEPTION
> ' ' Screen-top category
> 'R' Repetitive category
> 'Z' Screen-bottom category

Procedures are generated according to the categories defined on the Screen Call
of Elements ('-CE') screen.

If no category has been defined, the screen is considered to be a screen-top
category.

For the repetitive category, this function includes the interaction between the line
of the category to be processed and the input screen description field used to
access each of the data elements on the line.

This function also includes the initialization and incrementation of the ICATR
index, which manages the repetitive category.

If an error is detected (CAT-ER = 'E') once the processing of a category is
complete (F15 to F3999-ITER-FI), SCR-ER is set and validation processing on
the subsequent categories is not executed.

```
    *       ************************************        DO0030
    *       *                                  *        DO0030
    *       *  CATEGORY PROCESSING LOOP        *        DO0030
    *       *                                  *        DO0030
    *       ************************************        DO0030
    F10.                                                DO0030
        EXIT.                                           DO0030
    F1010.                                              DO0030
        MOVE SPACE TO CATM.                             DO0030
        IF      CATX  =  "R"                            DO0030
            MOVE O-0030-LINE TO P-0030-LINE (ICATR)     DO0030
            MOVE A-0030-LINE (1) TO B-0030-LINE (1, ICATR)  DO0030
            MOVE A-0030-LINE (2) TO B-0030-LINE (2, ICATR)  DO0030
            MOVE A-0030-LINE (4) TO B-0030-LINE (4, ICATR)  DO0030
            MOVE I-0030-LINE TO J-0030-LINE (ICATR)     DO0030
            MOVE ER-0030-LINE TO PS-30-LINE (ICATR).    DO0030
        IF      CAT-ER  =  "E"                          DO0030
            MOVE "4" TO SCR-ER                          DO0030
            GO TO F3999-ITER-FT.                        DO0030
        MOVE SPACE TO CAT-ER.                           DO0030
        IF      CATX  =  "0"                            DO0030
            MOVE " " TO CATX                            DO0030
            GO TO F1010-FN.                             DO0030
        IF      CATX  =  " "                            DO0030
            MOVE "R" TO CATX                            DO0030
            MOVE ZERO TO ICATR.                         DO0030
        IF      CATX  =  "R"                            DO0030
            AND ICATR  <   IRR                          DO0030
                ADD 1 TO ICATR                          DO0030
                MOVE PS-30-LINE (ICATR) TO ER-0030-LINE DO0030
                MOVE B-0030-LINE (4, ICATR) TO A-0030-LINE (4)  DO0030
                MOVE P-0030-LINE (ICATR) TO O-0030-LINE DO0030
                MOVE J-0030-LINE (ICATR) TO I-0030-LINE DO0030
                GO TO F1010-FN.                         DO0030
        IF      CATX  =  "R"                            DO0030
            MOVE "Z" TO CATX                            DO0030
            GO TO F1010-FN.                             DO0030
    F1010-A.                                            DO0030
        GO TO F3999-ITER-FT.                            DO0030
    F1010-FN.                                           DO0030
        EXIT.                                           DO0030
    F10-FN.                                             DO0030
        EXIT.                                           DO0030
```

4.4. F15 : VALIDATION OF TRANSACTION CODE

F15 : TRANSACTION CODE POSITIONING

The VALIDATION OF TRANSACTION CODE (F15) function is generated if at least one Data Element is defined as a Transaction Code in a category on the Screen Call of Elements ('-CE') screen.

The internal transaction code (CATM) is set according to the Data Element's value that is defined as a Transaction Code for the category. The value can be given to the Data Element on:

  . the Data Element Description (-D) screen with TYPE OF LINE = 'I',

  . the Screen Call of Elements (-CE) screen in the Transaction Code Data Element call line.

Depending on the categories defined on the screen (and for which a transaction code is indicated) the F15 function includes the following:

  .F15A for the screen-top category,

  .F15R for the repetitive category,

  .F15Z for the screen-bottom category.

If the transaction code is wrong, the subsequent 'RECEPTION' procedures are not executed.

```
   *          ***********************************           DO0030
   *          *                                 *           DO0030
   *          *   VALIDATION OF TRANSACTION CODE *          DO0030
   *          *                                 *           DO0030
   *          ***********************************           DO0030
    F15.                                                    DO0030
       EXIT.                                                DO0030
    F15R.                                                   DO0030
       IF      CATX NOT  =   "R"                            DO0030
          GO TO F15R-FN.                                    DO0030
       IF      OPER NOT  =   "M"                            DO0030
          MOVE SPACE TO CATM                                DO0030
          GO TO F15R-FN.                                    DO0030
       IF      I-0030-CODMVT  =  SPACE                      DO0030
          GO TO F15-FN.                                     DO0030
       IF      I-0030-CODMVT  =  "C"                        DO0030
          MOVE "C" TO CATM.                                 DO0030
       IF      I-0030-CODMVT  =  "M"                        DO0030
          MOVE "M" TO CATM.                                 DO0030
       IF      I-0030-CODMVT  =  "S"                        DO0030
          MOVE "A" TO CATM.                                 DO0030
       IF      CATM  =  SPACE                               DO0030
          MOVE 5 TO ER-0030-CODMVT                          DO0030
          MOVE "E" TO CAT-ER                                DO0030
          GO TO F3999-ITER-FI.                              DO0030
    F15R-FN.                                                DO0030
       EXIT.                                                DO0030
    F15Z.                                                   DO0030
       IF      CATX NOT  =   "Z"                            DO0030
          GO TO F15Z-FN.                                    DO0030
       IF      OPER NOT  =   "M"                            DO0030
          MOVE SPACE TO CATM                                DO0030
          GO TO F15Z-FN.                                    DO0030
       IF      I-0030-EDIT  =  SPACE                        DO0030
          GO TO F15-FN.                                     DO0030
       IF      I-0030-EDIT  =  "O"                          DO0030
          MOVE "X" TO CATM.                                 DO0030
       IF      CATM  =  SPACE                               DO0030
          MOVE 5 TO ER-0030-EDIT                            DO0030
          MOVE "E" TO CAT-ER                                DO0030
          GO TO F3999-ITER-FI.                              DO0030
    F15Z-FN.                                                DO0030
       EXIT.                                                DO0030
   *          +---------------------------------+           P000
   * LEVEL 10   I INITIALIZATION CATM (HEADING)    I        P000
   *          +---------------------------------+           P000
    F15AA.                                                  P000
       IF      CATX  =  SPACE                               P000
          AND OPER  =  "M"                                  P100
             NEXT SENTENCE                                  P100
       ELSE                                                 P100
             GO TO F15AA-FN.                                P100
       MOVE "M" TO CATM.                                    P100
    F15AA-FN.                                               P000
       EXIT.                                                P000
    F15-FN.                                                 P000
       EXIT.                                                P000
```

4.5. F20 : DATA ELEMENT VALIDATION

<u>F20 : DATA ELEMENT VALIDATION</u>

The DATA ELEMENT VALIDATION (F20) function is generated when one
variable Data Element has been specified on the screen.

Depending on which category or categories defined on the screen contain at least
one Data Element to be validated, the F20 function includes the following:

  . F20A for the screen-top category.
  . F20R for the repetitive category.
  . F20Z for the screen-bottom category.

The procedure for each category contains one sub-function per Data Element to
be validated. The validation procedures are the following:

  . Presence validation.

  . Numeric class validation.

  . Value validation according to the values or value ranges defined on the Data
   Element Description ('-D') screen, or on the Screen Call of Elements ('-CE')
   screen.

  . Validation of date (via PERFORM) for Data Elements defined with a 'DATE'
   format.

  . Validation of a sub-function (via PERFORM) defined by the user.

The conditioning of each sub-function is generated based on the procedure
option of the Data Element.

The validation result for each Data Element is stored in a field coded ER-scrn-
delcod (scrn: last four characters of the screen code; delcod: Data Element code),
which takes the following values:

```
          '0' : Data Element absent
          '1' : Data Element present
          '2' : invalid absence
          '4' : invalid class
          '5' : invalid value
```

'CAT-ER' is set when any Data Element (or user) error is detected.

NOTE: Sub-functions are numbered based on the number of Data Elements, their
      position on the screen, etc.

As a result, direct references should never be made to a label generated
in specific procedures.
Use the Relative Positioning types *A, *P, and *R (see chapter "USE
OF STRUCTURED CODE" in the ON-LINE SYSTEMS
DEVELOPMENT Reference Manual).

```
*          ***********************************          DO0030
*          *                                 *          DO0030
*          *  DATA ELEMENT VALIDATION         *          DO0030
*          *                                 *          DO0030
*          ***********************************          DO0030
 F20.                                                   DO0030
     EXIT.                                              DO0030
 F20A.                                                  DO0030
     IF     CATX NOT  =  " "                            DO0030
        GO TO F20A-FN.                                  DO0030
 F20A2.                                                 DO0030
     IF     I-0030-CHOIX NOT  =  SPACE                  DO0030
        MOVE "1" TO ER-0030-CHOIX.                      DO0030
 F20A2-FN.                                              DO0030
     EXIT.                                              DO0030
 F20B1.                                                 DO0030
     IF     I-0030-MATE NOT  =  SPACE                   DO0030
        MOVE "1" TO ER-0030-MATE.                       DO0030
     IF     ER-0030-MATE NOT  =  1                      DO0030
        GO TO F20B1-FN.                                 DO0030
     IF     I-0030-MATE  =  "I1"                        DO0030
        OR  I-0030-MATE  =  "I2"                        DO0030
        OR  I-0030-MATE  =  "I3"                        DO0030
        OR  I-0030-MATE  =  "I4"                        DO0030
        OR  I-0030-MATE  =  "I5"                        DO0030
        OR  I-0030-MATE  =  "B7"                        DO0030
        OR  I-0030-MATE  =  "B8"                        DO0030
        OR  I-0030-MATE  =  "UN"                        DO0030
        OR  I-0030-MATE  =  "IC"                        DO0030
        OR  I-0030-MATE  =  "IBM.V.OS"                  DO0030
        OR  I-0030-MATE  =  "IBM.V.DO"                  DO0030
        OR  I-0030-MATE  =  "IBM.D.OS"                  DO0030
        OR  I-0030-MATE  =  "IBM.D.DO"                  DO0030
        OR  I-0030-MATE  =  "IBM.IMS "                  DO0030
        OR  I-0030-MATE  =  "DPS7    "                  DO0030
        OR  I-0030-MATE  =  "DPS8    "                  DO0030
        OR  I-0030-MATE  =  "UNISYS  "                  DO0030
        OR  I-0030-MATE  =  "ICL     "                  DO0030
        OR  I-0030-MATE  =  "SPECIAL"                   DO0030
           NEXT SENTENCE                                DO0030
     ELSE                                               DO0030
           MOVE "5" TO ER-0030-MATE.                    DO0030
     IF     ER-0030-MATE  >  "1"                        DO0030
        MOVE "E" TO CAT-ER                              DO0030
        GO TO F20B1-FN.                                 DO0030
 F20B1-FN.                                              DO0030
     EXIT.                                              DO0030
 F20B2.                                                 DO0030
     IF     I-0030-RELEA NOT  =  SPACE                  DO0030
        MOVE "1" TO ER-0030-RELEA                       DO0030
     ELSE                                               DO0030
        MOVE "2" TO ER-0030-RELEA                       DO0030
        MOVE "E" TO CAT-ER                              DO0030
        GO TO F20B2-FN.                                 DO0030
     IF     I-0030-RELEA  =  "7.2"                      DO0030
        OR  I-0030-RELEA  =  "7.3"                      DO0030
        OR  I-0030-RELEA  =  "8.0"                      DO0030
           NEXT SENTENCE                                DO0030
     ELSE                                               DO0030
           MOVE "5" TO ER-0030-RELEA.                   DO0030
     IF     ER-0030-RELEA  >  "1"                       DO0030
        MOVE "E" TO CAT-ER                              DO0030
        GO TO F20B2-FN.                                 DO0030
 F20B2-FN.                                              DO0030
     EXIT.                                              DO0030
 F20B5.                                                 DO0030
     IF     I-0030-RUE NOT  =  SPACE                    DO0030
        MOVE "1" TO ER-0030-RUE.                        DO0030
 F20B5-FN.                                              DO0030
     EXIT.                                              DO0030
 F20B7.                                                 DO0030
     IF     I-0030-COPOS NOT  =  SPACE                  DO0030
        MOVE "1" TO ER-0030-COPOS                       DO0030
     ELSE                                               DO0030
        MOVE "2" TO ER-0030-COPOS                       DO0030
        MOVE "E" TO CAT-ER                              DO0030
        GO TO F20B7-FN.                                 DO0030
```

```
        MOVE I-0030-COPOS TO WP30-COPOS                          DO0030
        MOVE ER-0030-COPOS TO DEL-ER                             DO0030
        PERFORM F93CP THRU F93CP-FN                              DO0030
        MOVE WP30-COPOS TO I-0030-COPOS                          DO0030
        MOVE DEL-ER TO ER-0030-COPOS.                            DO0030
        IF      ER-0030-COPOS  >  "1"                            DO0030
            MOVE "E" TO CAT-ER                                   DO0030
            GO TO F20B7-FN.                                      DO0030
    F20B7-FN.                                                    DO0030
        EXIT.                                                    DO0030
    F20B8.                                                       DO0030
        IF      I-0030-REFCLI NOT  =  SPACE                      DO0030
            MOVE "1" TO ER-0030-REFCLI.                          DO0030
    F20B8-FN.                                                    DO0030
        EXIT.                                                    DO0030
    F20B9.                                                       DO0030
        IF      I-0030-DATE NOT  =  SPACE                        DO0030
            MOVE "1" TO ER-0030-DATE                             DO0030
        ELSE                                                     DO0030
            MOVE "2" TO ER-0030-DATE                             DO0030
            MOVE "E" TO CAT-ER                                   DO0030
            GO TO F20B9-FN.                                      DO0030
        MOVE I-0030-DATE TO DAT7                                 DO0030
        PERFORM F8120-D THRU F8120-FN                            DO0030
        MOVE DEL-ER TO ER-0030-DATE                              DO0030
        IF      DEL-ER  >  "1"                                   DO0030
            MOVE "E" TO CAT-ER                                   DO0030
            GO TO F20B9-FN.                                      DO0030
    F20B9-FN.                                                    DO0030
        EXIT.                                                    DO0030
    F20C0.                                                       DO0030
        IF      I-0030-CORRES NOT  =  SPACE                      DO0030
            MOVE "1" TO ER-0030-CORRES.                          DO0030
        IF      ER-0030-CORRES NOT  =  1                         DO0030
            GO TO F20C0-FN.                                      DO0030
    F20C0-FN.                                                    DO0030
        EXIT.                                                    DO0030
    F20C1.                                                       DO0030
        IF      E-0030-REMIS NOT  =  SPACE                       DO0030
            MOVE "1" TO ER-0030-REMIS.                           DO0030
        MOVE E-0030-REMIS TO ZONUM1                              DO0030
        MOVE 9-0030-REMIS TO NUMPIC                              DO0030
        MOVE ER-0030-REMIS TO DEL-ER                             DO0030
        PERFORM F8110 THRU F8110-FN                              DO0030
        MOVE DEL-ER TO ER-0030-REMIS                             DO0030
        IF      DEL-ER  >  1                                     DO0030
            MOVE "E" TO CAT-ER                                   DO0030
            GO TO F20C1-FN.                                      DO0030
        MOVE ZONUM2 TO E-0030-REMIS.                             DO0030
        IF      DEL-ER  =  "1"                                   DO0030
            MOVE I-0030-REMIS TO O-0030-REMIS.                   DO0030
    F20C1-FN.                                                    DO0030
        EXIT.                                                    DO0030
    F20A-FN.                                                     DO0030
        EXIT.                                                    DO0030
    F20R.                                                        DO0030
        IF      CATX NOT  =  "R"                                 DO0030
            GO TO F20R-FN.                                       DO0030
    F20C3.                                                       DO0030
        IF      I-0030-CODMVT NOT  =  SPACE                      DO0030
            MOVE "1" TO ER-0030-CODMVT.                          DO0030
    F20C3-FN.                                                    DO0030
        EXIT.                                                    DO0030
  *         +-----------------------------------+               P000
  * LEVEL 10   I ITEM NOT AVAILABLE            I               P000
  *         +-----------------------------------+               P000
    F20BB.                                                       P000
        IF      I-0030-FOURNI  =  "CLA"                          P100
            AND CATM NOT  =  SPACE                               P110
            MOVE "A" TO ER-0030-FOURNI                           P100
            MOVE "E" TO CAT-ER                                   P100
            GO TO F20C4-FN.                                      P110
    F20BB-FN.                                                    P000
        EXIT.                                                    P000
    F20C4.                                                       DO0030
        IF      CATM  =  SPACE                                   DO0030
            GO TO F20C4-FN.                                      DO0030
```

```
        IF      I-0030-FOURNI NOT  =  SPACE                    DO0030
            MOVE "1" TO ER-0030-FOURNI                         DO0030
        ELSE                                                   DO0030
            MOVE "2" TO ER-0030-FOURNI                         DO0030
            MOVE "E" TO CAT-ER                                 DO0030
            GO TO F20C4-FN.                                    DO0030
        IF      I-0030-FOURNI  =   "DIC"                       DO0030
            OR  I-0030-FOURNI  =   "MER"                       DO0030
            OR  I-0030-FOURNI  =   "TAB"                       DO0030
            OR  I-0030-FOURNI  =   "DBD"                       DO0030
            OR  I-0030-FOURNI  =   "DSO"                       DO0030
            OR  I-0030-FOURNI  =   "LGS"                       DO0030
            OR  I-0030-FOURNI  =   "LGB"                       DO0030
            OR  I-0030-FOURNI  =   "DLG"                       DO0030
                NEXT SENTENCE                                  DO0030
        ELSE                                                   DO0030
                MOVE "5" TO ER-0030-FOURNI.                    DO0030
        IF      ER-0030-FOURNI  >  "1"                         DO0030
            MOVE "E" TO CAT-ER                                 DO0030
            GO TO F20C4-FN.                                    DO0030
    F20C4-FN.                                                  DO0030
        EXIT.                                                  DO0030
    F20C5.                                                     DO0030
        IF      CATM  =  "A"                                   DO0030
            OR  CATM  =  SPACE                                 DO0030
                GO TO F20C5-FN.                                DO0030
        IF      E-0030-QTMAC NOT  =  SPACE                     DO0030
            MOVE "1" TO ER-0030-QTMAC                          DO0030
        ELSE                                                   DO0030
            MOVE "2" TO ER-0030-QTMAC                          DO0030
            MOVE "E" TO CAT-ER                                 DO0030
            GO TO F20C5-FN.                                    DO0030
        MOVE E-0030-QTMAC TO ZONUM1                            DO0030
        MOVE 9-0030-QTMAC TO NUMPIC                            DO0030
        MOVE ER-0030-QTMAC TO DEL-ER                           DO0030
        PERFORM F8110 THRU F8110-FN                            DO0030
        MOVE DEL-ER TO ER-0030-QTMAC                           DO0030
        IF      DEL-ER  >  1                                   DO0030
            MOVE "E" TO CAT-ER                                 DO0030
            GO TO F20C5-FN.                                    DO0030
        MOVE ZONUM2 TO E-0030-QTMAC.                           DO0030
        IF      DEL-ER  =  "1"                                 DO0030
            MOVE I-0030-QTMAC TO O-0030-QTMAC.                 DO0030
        IF      I-0030-QTMAC NOT  <  01                        DO0030
        AND I-0030-QTMAC NOT  >  50                            DO0030
                NEXT SENTENCE                                  DO0030
        ELSE                                                   DO0030
                MOVE "5" TO ER-0030-QTMAC.                     DO0030
        IF      ER-0030-QTMAC  >  "1"                          DO0030
            MOVE "E" TO CAT-ER                                 DO0030
            GO TO F20C5-FN.                                    DO0030
    F20C5-FN.                                                  DO0030
        EXIT.                                                  DO0030
    F20C8.                                                     DO0030
        IF      CATM  =  "A"                                   DO0030
            OR  CATM  =  SPACE                                 DO0030
                GO TO F20C8-FN.                                DO0030
        IF      I-0030-INFOR NOT  =  SPACE                     DO0030
            MOVE "1" TO ER-0030-INFOR.                         DO0030
        IF      ER-0030-INFOR NOT  =  1                        DO0030
            GO TO F20C8-FN.                                    DO0030
    F20C8-FN.                                                  DO0030
        EXIT.                                                  DO0030
    F20R-FN.                                                   DO0030
        EXIT.                                                  DO0030
    F20Z.                                                      DO0030
        IF      CATX NOT  =  "Z"                               DO0030
            GO TO F20Z-FN.                                     DO0030
    F20D0.                                                     DO0030
        IF      I-0030-EDIT NOT  =  SPACE                      DO0030
            MOVE "1" TO ER-0030-EDIT.                          DO0030
    F20D0-FN.                                                  DO0030
        EXIT.                                                  DO0030
    F20Z-FN.                                                   DO0030
        EXIT.                                                  DO0030
    F20-FN.                                                    DO0030
        EXIT.                                                  DO0030
```

4.6. F25 : SEGMENT ACCESS FOR VALIDATION

<u>F25 : SEGMENT ACCESS FOR VALIDATION</u>

The SEGMENT ACCESS FOR VALIDATION (F25) function is generated when there is at least one segment to be accessed in RECEPTION.

Depending on which categories defined on the screen contain a segment to be accessed in RECEPTION, the F25 function includes the following:

. F25A for the screen-top category.

. F25R for the repetitive category.

. F25Z for the screen-bottom category.

In the processing for each category there is one sub-function per segment to be accessed, including:

. The initialization of the key (if indicated on the -CS)

. Read or Read with Segment Update depending on its use in the screen (by a PERFORM of F80-ddss-R or RU)

. Positioning of the segment ddss-CF variable (1 if OK)

. Error processing, if any.

Within a category, accesses are generated in the alphabetical order of the segment codes, except for segments which contain a 'preceding' segment.

If a segment is to be updated, its access depends on the CATM value. It is not performed if CATM = SPACE.

If a segment has a preceding segment, its access is performed if the ddss-CF variable of the preceding segment is equal to '1'.

Other types of reads are not conditioned.

Sub-function F2599 is generated if at least one of the Read segments can be updated.

It contains the PERFORM of functions F80-ddss-UN, according to the segments used, as well as cursor positioning on the first variable data element of the category, in the case of segment error.

NOTE: Sub-functions are numbered based on the number of segments, their positions on the '-CS' screen, etc. As a result, a direct reference should never be made to a generated label in the specific procedures.

Use the Relative Positioning types '*A', '*P' and '*R' (see chapter "USE OF STRUCTURED CODE" in the ON-LINE SYSTEMS DEVELOPMENT Reference Manual).

```
*        ***********************************        DO0030
*        *                                 *        DO0030
*        *  SEGMENT ACCESS FOR VALIDATION  *        DO0030
*        *                                 *        DO0030
*        ***********************************        DO0030
 F25.                                               DO0030
     IF     CAT-ER NOT = SPACE                      DO0030
        GO TO F25-FN.                               DO0030
 F25A.                                              DO0030
     IF     CATX NOT = " "                          DO0030
        GO TO F25A-FN.                              DO0030
 F2501.                                             DO0030
    MOVE "0" TO CD05-CF.                            DO0030
     IF     CATM = SPACE                            DO0030
        GO TO F2501-FN.                             DO0030
    MOVE SPACES TO CD00-CLECD                       DO0030
    MOVE "B" TO CD00-COCARA                         DO0030
    MOVE CA00-NUCOM TO CD00-NUCOM                   DO0030
    PERFORM F80-CD05-RU THRU F80-FN.                DO0030
     IF     IK = "0"                                DO0030
        MOVE "1" TO CD05-CF.                        DO0030
     IF     CATM NOT = "C"                          DO0030
        AND IK = "1"                                DO0030
           MOVE "F019" TO XERCD                     DO0030
           PERFORM F81UT                            DO0030
           GO TO F2501-FN.                          DO0030
 F2501-FN.                                          DO0030
    EXIT.                                           DO0030
 F25A-FN.                                           DO0030
    EXIT.                                           DO0030
 F25R.                                              DO0030
     IF     CATX NOT = "R"                          DO0030
        GO TO F25R-FN.                              DO0030
 F2502.                                             DO0030
    MOVE "0" TO CD10-CF.                            DO0030
     IF     CATM = SPACE                            DO0030
        GO TO F2502-FN.                             DO0030
    MOVE "C" TO CD00-CLECD                          DO0030
    MOVE CA00-NUCOM TO CD00-NUCOM                   DO0030
    MOVE I-0030-FOURNI TO CD00-FOURNI               DO0030
    PERFORM F80-CD10-RU THRU F80-FN.                DO0030
     IF     IK = "0"                                DO0030
        MOVE "1" TO CD10-CF.                        DO0030
     IF     CATM = "X"                              DO0030
        AND IK = "1"                                DO0030
           MOVE "C" TO CATM.                        DO0030
     IF     CATM = "X"                              DO0030
        AND IK = "0"                                DO0030
           MOVE "M" TO CATM.                        DO0030
     IF     CATM = "C"                              DO0030
        AND IK = "0"                                DO0030
           MOVE "F028" TO XERCD                     DO0030
           PERFORM F81UT                            DO0030
           GO TO F2502-FN.                          DO0030
     IF     CATM NOT = "C"                          DO0030
        AND IK = "1"                                DO0030
           MOVE "F029" TO XERCD                     DO0030
           PERFORM F81UT                            DO0030
           GO TO F2502-FN.                          DO0030
*        +---------------------------------+        P000
* LEVEL 12   I ACCESS TO FO10              I        P000
*        +---------------------------------+        P000
 F25BB.                                             P000
    MOVE "1" TO CD10-CF.                            P100
 F25BB-FN.                                          P000
    EXIT.                                           P000
 F2502-FN.                                          P000
    EXIT.                                           P000
 F2503.                                             DO0030
    MOVE "0" TO FO10-CF.                            DO0030
     IF     CD10-CF NOT = "1"                       DO0030
        GO TO F2503-FN.                             DO0030
     IF     CATM = SPACE                            DO0030
        GO TO F2503-FN.                             DO0030
    MOVE I-0030-FOURNI TO FO10-CLEFO                DO0030
    MOVE CA00-LANGU TO FO10-LANGU                   DO0030
    MOVE I-0030-RELEA TO FO10-RELEA                 DO0030
```

```
        MOVE I-0030-MATE TO FO10-MATE                      DO0030
        PERFORM F80-FO10-RU THRU F80-FN.                   DO0030
        IF     IK  =  "0"                                  DO0030
           MOVE "1" TO FO10-CF.                            DO0030
        IF     IK  =  "1"                                  DO0030
           MOVE "F039" TO XERCD                            DO0030
           PERFORM F81UT                                   DO0030
           GO TO F2503-FN.                                 DO0030
    F2503-FN.                                              DO0030
        EXIT.                                              DO0030
    F25R-FN.                                               DO0030
        EXIT.                                              DO0030
    F25Z.                                                  DO0030
        IF     CATX NOT  =  "Z"                            DO0030
           GO TO F25Z-FN.                                  DO0030
    F2505.                                                 DO0030
        MOVE "0" TO CD20-CF.                               DO0030
        IF     CATM  =  SPACE                              DO0030
           GO TO F2505-FN.                                 DO0030
        MOVE SPACES TO CD00-CLECD                          DO0030
        MOVE "E" TO CD00-COCARA                            DO0030
        MOVE CA00-NUCOM TO CD00-NUCOM                      DO0030
        PERFORM F80-CD20-RU THRU F80-FN.                   DO0030
        IF     IK  =  "0"                                  DO0030
           MOVE "1" TO CD20-CF.                            DO0030
        IF     CATM  =  "X"                                DO0030
           AND IK  =  "1"                                  DO0030
           MOVE "C" TO CATM.                               DO0030
        IF     CATM  =  "X"                                DO0030
           AND IK  =  "0"                                  DO0030
           MOVE "M" TO CATM.                               DO0030
        IF     CATM  =  "C"                                DO0030
           AND IK  =  "0"                                  DO0030
           MOVE "F058" TO XERCD                            DO0030
           PERFORM F81UT                                   DO0030
           GO TO F2505-FN.                                 DO0030
        IF     CATM NOT  =  "C"                            DO0030
           AND IK  =  "1"                                  DO0030
           MOVE "F059" TO XERCD                            DO0030
           PERFORM F81UT                                   DO0030
           GO TO F2505-FN.                                 DO0030
    F2505-FN.                                              DO0030
        EXIT.                                              DO0030
    F25Z-FN.                                               DO0030
        EXIT.                                              DO0030
    F2599.                                                 DO0030
        IF     CAT-ER  =  SPACE                            DO0030
           GO TO F2599-FN.                                 DO0030
        IF     CD05-CF  =  "1"                             DO0030
        PERFORM F80-CD05-UN THRU F80-FN.                   DO0030
        IF     CD10-CF  =  "1"                             DO0030
        PERFORM F80-CD10-UN THRU F80-FN.                   DO0030
        IF     FO10-CF  =  "1"                             DO0030
        PERFORM F80-FO10-UN THRU F80-FN.                   DO0030
        IF     CD20-CF  =  "1"                             DO0030
        PERFORM F80-CD20-UN THRU F80-FN.                   DO0030
        IF     CATX  =  " "                                DO0030
           AND DE-AT (4, 010)  =  "X"                      DO0030
           MOVE " " TO DE-AT (4, 010).                     DO0030
        IF     CATX  =  " "                                DO0030
           MOVE "X" TO A-0030-CHOIX (4).                   DO0030
        IF     CATX  =  "R"                                DO0030
           AND DE-AT (4, 010)  =  "X"                      DO0030
           MOVE " " TO DE-AT (4, 010).                     DO0030
        IF     CATX  =  "R"                                DO0030
           MOVE "X" TO A-0030-CODMVT (4).                  DO0030
        IF     CATX  =  "Z"                                DO0030
           AND DE-AT (4, 010)  =  "X"                      DO0030
           MOVE " " TO DE-AT (4, 010).                     DO0030
        IF     CATX  =  "Z"                                DO0030
           MOVE "X" TO A-0030-EDIT (4).                    DO0030
    F2599-FN.                                              DO0030
        EXIT.                                              DO0030
    F25-FN.                                                DO0030
        EXIT.                                              DO0030
 *        +-----------------------------------+            P000
 * LEVEL 10   I STOCK UPD.: ORDER DELETION/UPD    I        P000
```

```
    *           +----------------------------------+        P000
      F28BH.                                                 P000
        IF     (CATM  =  "A"                                 P000
            OR  "M")                                         P000
            AND  CATX  =  "R"                                P100
            AND  CAT-ER  =  SPACES                           P120
                 NEXT SENTENCE                               P120
        ELSE                                                 P120
                 GO TO F28BH-FN.                             P120
        ADD CD10-QTMAL TO FO10-QTMAS.                        P100
      F28BH-FN.                                              P000
        EXIT.                                                P000
```

4.7. F30 : DATA ELEMENT TRANSFER

<u>F30: DATA ELEMENT TRANSFER</u>

The DATA ELEMENT TRANSFER (F30) function ensures the transfer of Data Elements on the screen to the corresponding Data Elements in the Segments.

Depending on which categories defined on the screen contain at least one Data Element transfer on reception, the F30 function includes the following:

. F30A for the screen-top category.

. F30R for the repetitive category.

. F30Z for the screen-bottom category.

The condition of the transfer is generated based on the use of the Segment on reception, or the value of the PRESENCE VALIDATION OF DATA ELEMENT field on the Screen Call of Elements ('-CE') screen.

```
*        **********************************        DO0030
*        *                                *        DO0030
*        *  DATA ELEMENT TRANSFER         *        DO0030
*        *                                *        DO0030
*        **********************************        DO0030
 F30.                                              DO0030
     IF      CAT-ER NOT  =  SPACE                  DO0030
        GO TO F30-FN.                              DO0030
 F30A.                                             DO0030
     IF      CATX NOT  =  " "                      DO0030
        GO TO F30A-FN.                             DO0030
     MOVE I-0030-RELEA TO CD05-RELEA.              DO0030
     MOVE I-0030-COPOS TO CD05-COPOS.              DO0030
     MOVE I-0030-REFCLI TO CD05-REFCLI.            DO0030
     MOVE I-0030-DATE TO CD05-DATE.                DO0030
     MOVE I-0030-REMIS TO CD05-REMIS.              DO0030
     IF      ER-0030-MATE  =  "1"                  DO0030
        MOVE I-0030-MATE TO CD05-MATE.             DO0030
     IF      ER-0030-CORRES  =  "1"                DO0030
        MOVE I-0030-CORRES TO CD05-CORRES.         DO0030
 F30A-FN.                                          DO0030
     EXIT.                                         DO0030
 F30R.                                             DO0030
     IF      CATX NOT  =  "R"                      DO0030
        GO TO F30R-FN.                             DO0030
     IF      ER-0030-INFOR  =  "1"                 DO0030
        MOVE I-0030-INFOR TO CD10-INFOR.           DO0030
     IF      CATM NOT  =  SPACE                    DO0030
        MOVE I-0030-FOURNI TO CD00-FOURNI.         DO0030
     IF      CATM NOT  =  SPACE                    DO0030
        AND CATM NOT  =  "A"                       DO0030
           MOVE I-0030-QTMAC TO CD10-QTMAC         DO0030
           ADD I-0030-QTMAC TO FO10-QTMAM.         DO0030
*        +--------------------------------+        P000
* LEVEL 10    I QUANTITY PROCESSING        I       P000
*        +--------------------------------+        P000
 F30BD.                                            P000
*        +--------------------------------+        P000
* LEVEL 12    I CALC. DELIV. QUANT.  STOCK UPD.  I P000
*        +--------------------------------+        P000
 F30BF.                                            P000
     IF      CATM  =  "C"                          P000
        OR  "M"                                    P000
           NEXT SENTENCE                           P000
     ELSE                                          P000
           GO TO F30BF-FN.                         P000
     IF      FO10-QTMAS NOT  <  I-0030-QTMAC       P100
        MOVE I-0030-QTMAC TO CD10-QTMAL            P100
     ELSE                                          P120
        MOVE FO10-QTMAS TO CD10-QTMAL.             P120
     SUBTRACT CD10-QTMAL FROM FO10-QTMAS           P130
     MOVE CD10-QTMAL TO O-0030-QTMAL.              P140
 F30BF-FN.                                         P000
     EXIT.                                         P000
 F30BD-FN.                                         P000
     EXIT.                                         P000
 F30R-FN.                                          DO0030
     EXIT.                                         DO0030
 F30Z.                                             DO0030
     IF      CATX NOT  =  "Z"                      DO0030
        GO TO F30Z-FN.                             DO0030
     MOVE I-0030-EDIT TO CD20-EDIT.                DO0030
 F30Z-FN.                                          DO0030
     EXIT.                                         DO0030
 F30-FN.                                           DO0030
     EXIT.                                         DO0030
```

4.8. F35 : SEGMENT ACCESS FOR UPDATE

<u>F35: SEGMENT ACCESS FOR UPDATE</u>

This function ensures Segment updates. If an error has been detected by the error checks (CAT-ER), this function is not executed.

Depending on which categories contain a Segment to be updated, the SEGMENT ACCESS FOR UPDATE (F35) function includes the following:

  . F35A for the screen-top category.

  . F35R for the repetitive category.

  . F35Z for the screen-bottom category.

In the processing for each category there is one sub-function per Segment to be updated, possibly including several types of access.

The function is accessed by executing a PERFORM of the appropriate subfunction in F80.

For a Segment that does not follow an access to another Segment (i.e. the PRECEDING SEGMENT field in the Screen Call of Segments ('-CS') screen is left blank), access is conditioned by the value of the internal Transaction Code (CATM) found in the category, which corresponds to one of the following operations:

  . Creation: writing (F80-ddss-R).

  . Deletion: suppression (F80-ddss-D).

  . Other cases: rewriting (F80-ddss-RW)

The user must manage the access to other transactions if the rewrite option does not correspond to user needs.

For a Segment that follows an access to another Segment (i.e. a Segment is listed in the PRECEDING SEGMENT field on the Screen Call of Segments ('-CS') screen), access is conditioned by the Segment configuration, which is either:

  . ddss-CF = 0, writing, or
  . ddss-CF = 1, rewriting.

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If a Data Element was defined as a Transaction Code on the Screen Call of Elements ('-CE') screen (in the VALIDATION CONDITIONS/SET VARIABLES field), it is set to blanks.

Paragraph F3999-ITER-FI returns to the beginning of the 'RECEPTION' iteration.

NOTE: Sub-functions are numbered based on the number of segments, their positions on the '-CS' screen, etc. As a result, a direct reference should never be made to a generated label in the specific procedures.

Use the Relative Positioning types '*A', '*P' and '*R' (see chapter "USE OF STRUCTURED CODE" in the ON-LINE SYSTEMS DEVELOPMENT Reference Manual.)

```
*        *************************************           DO0030
*        *                                   *           DO0030
*        *  SEGMENT ACCESS FOR UPDATE        *           DO0030
*        *                                   *           DO0030
*        *************************************           DO0030
 F35.                                                    DO0030
     IF     CAT-ER NOT  =  SPACE                          DO0030
        OR  CATM  =  SPACE                                DO0030
           GO TO F35-FN.                                  DO0030
 F35A.                                                    DO0030
     IF     CATX NOT  =   " "                             DO0030
        GO TO F35A-FN.                                    DO0030
 F3501.                                                   DO0030
     IF     CATM NOT  =  "C"                              DO0030
        AND CATM NOT  =  "A"                              DO0030
           PERFORM F80-CD05-RW THRU F80-FN.               DO0030
 F3501-FN.                                                DO0030
     EXIT.                                                DO0030
 F35A-FN.                                                 DO0030
     EXIT.                                                DO0030
 F35R.                                                    DO0030
     IF     CATX NOT  =  "R"                              DO0030
        GO TO F35R-FN.                                    DO0030
 F3502.                                                   DO0030
     IF     CATM  =  "C"                                  DO0030
        PERFORM F80-CD10-W THRU F80-FN.                   DO0030
     IF     CATM  =  "A"                                  DO0030
        PERFORM F80-CD10-D THRU F80-FN.                   DO0030
     IF     CATM NOT  =  "C"                              DO0030
        AND CATM NOT  =  "A"                              DO0030
           PERFORM F80-CD10-RW THRU F80-FN.               DO0030
 F3502-FN.                                                DO0030
     EXIT.                                                DO0030
 F3503.                                                   DO0030
     IF     FO10-CF  =  "1"                               DO0030
        PERFORM F80-FO10-RW THRU F80-FN.                  DO0030
 F3503-FN.                                                DO0030
     EXIT.                                                DO0030
 F35R-C3.                                                 DO0030
    MOVE SPACE TO O-0030-CODMVT.                          DO0030
 F35R-FN.                                                 DO0030
     EXIT.                                                DO0030
 F35Z.                                                    DO0030
     IF     CATX NOT  =  "Z"                              DO0030
        GO TO F35Z-FN.                                    DO0030
 F3505.                                                   DO0030
     IF     CATM  =  "C"                                  DO0030
        PERFORM F80-CD20-W THRU F80-FN.                   DO0030
     IF     CATM NOT  =  "C"                              DO0030
        AND CATM NOT  =  "A"                              DO0030
           PERFORM F80-CD20-RW THRU F80-FN.               DO0030
 F3505-FN.                                                DO0030
     EXIT.                                                DO0030
 F35Z-D0.                                                 DO0030
    MOVE SPACE TO O-0030-EDIT.                            DO0030
 F35Z-FN.                                                 DO0030
     EXIT.                                                DO0030
 F35-FN.                                                  DO0030
     EXIT.                                                DO0030
 F3999-ITER-FI.                                           DO0030
     GO TO F10.                                           DO0030
 F3999-ITER-FT.                                           DO0030
     EXIT.                                                DO0030
 F3999-FN.                                                DO0030
     EXIT.                                                DO0030
```

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4.9. F40 : END-OF-RECEPTION PROCESSING

F40: END-OF-RECEPTION PROCESSING

This function contains the procedures for the end-of-reception processing of the program. It is executed as long as no errors have been found.

Within this function, there are four sub-functions which correspond to four automatically generated procedures that are conditioned by the value of the Operation Code (OPER).

SET-UP KEYS FOR NEW DISPLAY (F4010)

This function is executed for a 'display' or an 'update' operation. The keys to the segments with no preceding segment, or those used in display, are given a value here.

Depending on the categories defined on the screen, the memorization of the access key for the display segment is found in:

  . F40A for the screen-top category.
  . F40R for the repetitive category.
  . F40Z for the screen-bottom category.

SET-UP KEYS FOR SCREEN PAGING (F4020)

This function is executed for a 'screen continuation' operation. It contains the memorization of the first key for the display of the screen continuation, if the segment is used in the repetitive category.

<u>END OF TRANSACTION (F4030)</u>

This function is executed for an end-of-transaction operation. It sends the END-MESSAGE and calls the ZAR980 sub-program which formats the message before the SEND, which is executed by the program.

<u>TRANSFER TO ANOTHER SCREEN (F4040)</u>

This function is executed for a transfer to another screen operation.

NOTE: Functions F4010 and F4020 are to be written by the user for segments with ORGANIZATION = 'U'.

```
      F40.                                                  DO0030
          IF      SCR-ER  >  "1"                            DO0030
              MOVE "A" TO OPER                              DO0030
              GO TO F40-FN.                                 DO0030
      F40-A.                                                DO0030
          IF       OPERD NOT  =  SPACE                      DO0030
              MOVE OPERD TO OPER.                           DO0030
      *         ************************************        DO0030
      *         *                                  *        DO0030
      *         *  SET-UP KEYS FOR NEW DISPLAY     *        DO0030
      *         *                                  *        DO0030
      *         ************************************        DO0030
      F4010.                                                DO0030
          IF       OPER NOT  =  "A"                         DO0030
              AND NOT  =  "M"                               DO0030
                  GO TO F4010-FN.                           DO0030
      F40A.                                                 DO0030
          MOVE SPACES TO CD00-CLECD                         DO0030
          MOVE "B" TO CD00-COCARA                           DO0030
          MOVE CA00-NUCOM TO CD00-NUCOM                     DO0030
          MOVE CD00-CLECD TO K-ACD05-CLECD.                 DO0030
      F40A-FN.                                              DO0030
          EXIT.                                             DO0030
      F40R.                                                 DO0030
          MOVE J-0030-LINE (1) TO I-0030-LINE.              DO0030
          MOVE SPACES TO CD00-KEYCD                         DO0030
          MOVE "C" TO CD00-COCARA                           DO0030
          MOVE CA00-NUCOM TO CD00-NUCOM                     DO0030
          MOVE CD00-CLECD TO K-RCD10-CLECD (1).             DO0030
      F40R-FN.                                              DO0030
          EXIT.                                             DO0030
      F40Z.                                                 DO0030
          MOVE CA00-CLEME TO ME00-CLEME                     DO0030
          MOVE ME00-CLEME TO K-ZME00-CLEME.                 DO0030
      F40Z-FN.                                              DO0030
          EXIT.                                             DO0030
      F4010-FN.                                             DO0030
          EXIT.                                             DO0030
      *         ************************************        DO0030
      *         *                                  *        DO0030
      *         *  SET-UP KEYS FOR SCREEN PAGING   *        DO0030
      *         *                                  *        DO0030
      *         ************************************        DO0030
      F4020.                                                DO0030
          IF       OPER NOT  =  "S"                         DO0030
              GO TO F4020-FN.                               DO0030
          MOVE K-RCD10-CLECD (2) TO K-RCD10-CLECD (1).      DO0030
      F4020-FN.                                             DO0030
          EXIT.                                             DO0030
      *         ************************************        DO0030
      *         *                                  *        DO0030
      *         *  END OF TRANSACTION              *        DO0030
      *         *                                  *        DO0030
      *         ************************************        DO0030
      F4030.                                                DO0030
          IF       OPER NOT  =  "E"                         DO0030
              GO TO F4030-FN.                               DO0030
          MOVE K-S0030-XTERM TO HE00-XTERM                  DO0030
          PERFORM F80-HELP-D THRU F80-FN.                   DO0030
          MOVE SPACE TO NEXT-TPR                            DO0030
          MOVE 1 TO 7-CD02-XNDEST                           DO0030
          MOVE K-S0030-XTERM TO 7-CD02-XTERM                DO0030
          MOVE END-MESSAGE TO CMES-YR00.                    DO0030
          MOVE END-ATTR TO CMES-YO00.                       DO0030
          MOVE K-S0030-YMAT TO CMES-YMAT.                   DO0030
          MOVE 7-YCREF TO CMES-YCRE.                        DO0030
          CALL PRCGI USING CMES-COMMUNICATION               DO0030
          MOVE CMES-IND1 TO 7-CD02-XLOMES                   DO0030
          SEND 7-CD02 FROM CMES-YR00 WITH EGI AFTER ADVANCING 0 LINES. DO0030
      F4030-A.                                              DO0030
          EXIT PROGRAM.                                     DO0030
      F4030-FN.                                             DO0030
          EXIT.                                             DO0030
      *         ************************************        DO0030
      *         *                                  *        DO0030
      *         *  TRANSFER TO ANOTHER SCREEN      *        DO0030
      *         *                                  *        DO0030
```

```
   *              **********************************           DO0030
     F4040.                                                    DO0030
        IF     OPER NOT  =  "O"                                DO0030
           GO TO F4040-FN.                                     DO0030
        MOVE 5-0030-PROGE TO NEXT-TPR.                         DO0030
     F4040-A.                                                  DO0030
        EXIT PROGRAM.                                          DO0030
     F4040-FN.                                                 DO0030
        EXIT.                                                  DO0030
     F40-FN.                                                   DO0030
        EXIT.                                                  DO0030
     END-OF-RECEPTION.                                         DO0030
        EXIT.                                                  DO0030
```

4.10. F50 : DISPLAY PREPARATION

F50: DISPLAY PREPARATION

The DISPLAY PREPARATION (F50) function contains the conditions for the set of procedures used in the 'DISPLAY' part of the program, F50 to F78-FN (END-OF-DISPLAY).

Sub-function F5010 is always generated. It ensures the initialization of work areas, and of the display screen description.

```
    *       ***********************************        DO0030
    *       *                                 *        DO0030
    *       *  DISPLAY PREPARATION            *        DO0030
    *       *                                 *        DO0030
    *       ***********************************        DO0030
    F50.                                               DO0030
        IF    OCF  = "0"                               DO0030
           GO TO END-OF-DISPLAY.                       DO0030
    F5010.                                             DO0030
       MOVE ZERO TO CATX.                              DO0030
       MOVE ZERO TO CONFIGURATIONS.                    DO0030
       MOVE ALL "1" TO FIRST-ON-SEGMENT.               DO0030
       IF    SCR-ER  >  "1"                            DO0030
          MOVE LOW-VALUE TO 0030-MESSO.                DO0030
       IF    SCR-ER  >  "1"                            DO0030
          GO TO F6999-ITER-FT.                         DO0030
       MOVE SPACE TO O-0030.                           DO0030
       PERFORM F8115 THRU F8115-FN.                    DO0030
       MOVE K-R0030-LINE (1) TO K-R0030-LINE (2).      DO0030
    F5010-FN.                                          DO0030
       EXIT.                                           DO0030
    F50-FN.                                            DO0030
       EXIT.                                           DO0030
```

DDOD7000021A

4.11. F55 : CATEGORY PROCESSING LOOP

F55: CATEGORY PROCESSING LOOP

The CATEGORY PROCESSING LOOP (F55) function positions the category
to be processed in 'DISPLAY' based on the CATX indicator, which can have the
following values:

. '0' Beginning of display.

. ' ' Screen-top category.

. 'R' Repetitive category.

. 'Z' Screen-bottom category.

The procedures are generated based on the categories defined on the Call of
Elements ('-CE') screen.

If no category is defined, the screen is considered a screen-top category.

For the repetitive category this function includes:

. The interaction between the line of the category to be processed, and the
output screen description field used to access each of the data elements of the
line,

. The initialization and incrementation of the ICATR indicator which manages
the repetitive category.

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```
      *         ***********************************           DO0030
      *         *                                 *           DO0030
      *         *  CATEGORY PROCESSING LOOP       *           DO0030
      *         *                                 *           DO0030
      *         ***********************************           DO0030
       F55.                                                   DO0030
           EXIT.                                              DO0030
       F5510.                                                 DO0030
           MOVE SPACE TO CAT-ER.                              DO0030
           IF      CATX  =  "0"                               DO0030
               MOVE " " TO CATX                               DO0030
               GO TO F5510-FN.                                DO0030
           IF      CATX  =  " "                               DO0030
               MOVE "R" TO CATX                               DO0030
               MOVE ZERO TO ICATR.                            DO0030
           IF      CATX NOT  =  "R"                           DO0030
               OR  ICATR  >  IRR                              DO0030
                   GO TO F5510-R.                             DO0030
           IF      ICATR  >  ZERO                             DO0030
               MOVE O-0030-LINE TO P-0030-LINE (ICATR)        DO0030
               MOVE ER-0030-LINE TO PS-30-LINE (ICATR).       DO0030
           ADD 1 TO ICATR.                                    DO0030
           IF      ICATR NOT  >  IRR                          DO0030
               MOVE P-0030-LINE (ICATR) TO O-0030-LINE        DO0030
               MOVE PS-30-LINE (ICATR) TO ER-0030-LINE.       DO0030
           GO TO F5510-FN.                                    DO0030
       F5510-R.                                               DO0030
           EXIT.                                              DO0030
       F5510-Z.                                               DO0030
           IF      CATX  =  "R"                               DO0030
               MOVE "Z" TO CATX                               DO0030
               GO TO F5510-FN.                                DO0030
       F5510-900.                                             DO0030
           GO TO F6999-ITER-FT.                               DO0030
       F5510-FN.                                              DO0030
           EXIT.                                              DO0030
       F55-FN.                                                DO0030
           EXIT.                                              DO0030
```

4.12. F60 : SEGMENT ACCESS FOR DISPLAY

F60: SEGMENT ACCESS FOR DISPLAY

The SEGMENT ACCESS FOR DISPLAY (F60) function is generated when there is a segment to be accessed for display.

Depending on which categories defined on the screen contain a segment to be accessed for display, the F60 function includes the following:

  . F60A for the screen-top category,

  . F60R for the repetitive category,

  . F60Z for the screen-bottom category.

To process each category, there is one sub-function per access to a segment, including:

  . Loading of the key from the 'K-cddss-KEY' field stored in function F40. For the first display (OCF = '1'), the user must ensure that the 'K-' field is loaded.

  . Access by a PERFORM to the appropriate F80 sub-function depending on the category:

  - Direct read (F80-ddss-R),

  - Sequential Read after positioning (repetitive) (F80-ddss-P and F80-ddss-RN) based on the use of the segment (indicated on the '-CS').

  . The positioning of the Segment 'ddss-CF' variable.

  . Error processing, if necessary.

If a segment has a preceding segment, its Read will always be a Direct Read, even in the Repetitive category.

NOTE: Sub-functions are numbered based on the number of segments, their positions on the '-CS' screen, etc. As a result, a direct reference should never be made to a generated label in the specific procedures.

Use the Relative Positioning types '*A', '*P' and '*R' (see chapter "USE OF STRUCTURED CODE" in the ON-LINE SYSTEMS DEVELOPMENT Reference Manual.)

```
     *         ************************************         DO0030
     *         *                                  *         DO0030
     *         *  SEGMENT ACCESS FOR DISPLAY      *         DO0030
     *         *                                  *         DO0030
     *         ************************************         DO0030
      F60.                                                  DO0030
         EXIT.                                              DO0030
      F60A.                                                 DO0030
         IF      CATX  NOT  =   " "                         DO0030
            GO TO F60A-FN.                                  DO0030
      F6001.                                                DO0030
         MOVE "0" TO CD05-CF.                               DO0030
         MOVE K-ACD05-CLECD TO CD00-CLECD                   DO0030
         PERFORM F80-CD05-R THRU F80-FN.                    DO0030
         IF      IK  =  "1"                                 DO0030
            MOVE "G019" TO XERCD                            DO0030
            PERFORM F81UT THRU F81UT-FN                     DO0030
            GO TO F6001-FN.                                 DO0030
         MOVE "1" TO CD05-CF.                               DO0030
      F6001-FN.                                             DO0030
         EXIT.                                              DO0030
      F60A-FN.                                              DO0030
         EXIT.                                              DO0030
      F60R.                                                 DO0030
         IF      CATX  NOT  =  "R"                          DO0030
            OR  FT  =  "1"                                  DO0030
               GO TO F60R-FN.                               DO0030
      F6003.                                                DO0030
        MOVE "0" TO CD10-CF.                                DO0030
         IF      CD10-FST  =  "1"                           DO0030
            MOVE K-RCD10-CLECD (1) TO CD00-CLECD            DO0030
            MOVE CD00-COCARA TO C-0030-COCARA               DO0030
            MOVE CD00-NUCOM TO C-0030-NUCOM                 DO0030
            PERFORM F80-CD10-P THRU F80-FN                  DO0030
            MOVE ZERO TO CD10-FST                           DO0030
         ELSE                                               DO0030
            PERFORM F80-CD10-RN THRU F80-FN.                DO0030
         IF      IK  =  "0"                                 DO0030
            IF CD00-COCARA NOT  =  C-0030-COCARA            DO0030
               OR  CD00-NUCOM NOT  =  C-0030-NUCOM          DO0030
                  MOVE "1" TO IK.                           DO0030
         IF      IK  =  "1"                                 DO0030
            MOVE "G039" TO XERCD                            DO0030
            MOVE "1" TO FT                                  DO0030
            PERFORM F81UT THRU F81UT-FN                     DO0030
            GO TO F6003-FN.                                 DO0030
         MOVE "1" TO CD10-CF.                               DO0030
         MOVE CD00-CLECD TO K-RCD10-CLECD (2).              DO0030
      F6003-FN.                                             DO0030
         EXIT.                                              DO0030
      F60R-FN.                                              DO0030
         EXIT.                                              DO0030
      F60Z.                                                 DO0030
         IF      CATX  NOT  =  "Z"                          DO0030
            GO TO F60Z-FN.                                  DO0030
      F6006.                                                DO0030
         MOVE "0" TO ME00-CF.                               DO0030
         MOVE K-ZME00-CLEME TO ME00-CLEME                   DO0030
         PERFORM F80-ME00-R THRU F80-FN.                    DO0030
         IF      IK  =  "1"                                 DO0030
            MOVE "G069" TO XERCD                            DO0030
            PERFORM F81UT THRU F81UT-FN                     DO0030
            GO TO F6006-FN.                                 DO0030
         MOVE "1" TO ME00-CF.                               DO0030
      F6006-FN.                                             DO0030
         EXIT.                                              DO0030
      F60Z-FN.                                              DO0030
         EXIT.                                              DO0030
      F60-FN.                                               DO0030
         EXIT.                                              DO0030
     *         +----------------------------------+         P000
     * LEVEL 10    I PREPARATION DISPLAY DATE/HOUR    I      P000
     *         +----------------------------------+         P000
      F64DA.                                                P000
         IF      CATX  =  " "                               P000
            NEXT SENTENCE                                   P000
         ELSE                                               P000
```

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```
        GO TO F64DA-FN.                            P000
    ACCEPT DATOR FROM DATE                          P040
    MOVE DATOR TO DAT6 DAT8                         P040
    MOVE DAT63 TO DAT61                             P040
    MOVE DAT81 TO DAT63                             P040
    MOVE DATOR TO DAT6                              P080
    PERFORM F8120-I THRU F8120-Z                    P080
    MOVE DAT8C TO DAT8C.                            P080
    ACCEPT TIMCO FROM TIME                          P120
    MOVE TIMCOG TO TIMCOG                           P160
    MOVE TIMCOH TO TIMHOU                           P160
    MOVE TIMCOM TO TIMMIN                           P160
    MOVE TIMCOS TO TIMSEC                           P160
    MOVE ":" TO TIMS1 TIMS2                         P160
    MOVE TIMDAY TO TIMDAY.                          P160
 F64DA-FN.                                          P000
    EXIT.                                           P000
```

4.13. F65 : DATA ELEMENT TRANSFER TO DISPLAY

F65: DATA ELEMENT TRANSFER

The DATA ELEMENT TRANSFER (F65) function ensures the transfer of the segment data elements to the corresponding data elements on the screen.

Depending on which categories defined on the screen contain at least one transfer of a data element for display, the F65 function includes:

  . F65A for the screen-top category,

  . F65R for the repetitive category,

  . F65Z for the screen-bottom category.

If the data element is filled from a segment, the transfer is conditioned by the segment configuration variable (ddss-CF=1).

Paragraph 'F6999-ITER-FI' contains the return to the beginning of the display iteration.

```
    *       ***********************************             DO0030
    *       *                                 *             DO0030
    *       *  DATA ELEMENT TRANSFER          *             DO0030
    *       *                                 *             DO0030
    *       ***********************************             DO0030
    F65.                                                    DO0030
        EXIT.                                               DO0030
    F65A.                                                   DO0030
        IF     CATX NOT  =   " "                            DO0030
           GO TO F65A-FN.                                   DO0030
        MOVE PROGE TO O-0030-PROGE.                         DO0030
        MOVE SESSI TO O-0030-SESSI.                         DO0030
        MOVE DAT8C TO O-0030-DATEM.                         DO0030
        MOVE TIMDAY TO O-0030-HEURE.                        DO0030
    F65A-A7.                                                DO0030
        MOVE CA00-NUCOM TO O-0030-NUCOM.                    DO0030
    F65A-A7-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-A8.                                                DO0030
        MOVE CA00-RAISOC TO O-0030-RAISOC.                  DO0030
    F65A-A8-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-CD05.                                              DO0030
        IF     CD05-CF NOT  =   "1"                         DO0030
           GO TO F65A-CD05-FN.                              DO0030
        MOVE CD05-MATE TO O-0030-MATE.                      DO0030
    F65A-B0.                                                DO0030
        MOVE CD05-RELEA TO O-0030-RELEA.                    DO0030
    F65A-B0-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-B1.                                                DO0030
        MOVE CD05-VILLE TO O-0030-VILLE.                    DO0030
    F65A-B1-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-B2.                                                DO0030
        MOVE CD05-COPOS TO O-0030-COPOS.                    DO0030
    F65A-B2-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-B3.                                                DO0030
        MOVE CD05-REFCLI TO O-0030-REFCLI.                  DO0030
    F65A-B3-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-B4.                                                DO0030
        MOVE CD05-DATE TO O-0030-DATE.                      DO0030
    F65A-B4-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-B5.                                                DO0030
        MOVE CD05-CORRES TO O-0030-CORRES.                  DO0030
    F65A-B5-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-B6.                                                DO0030
        MOVE CD05-REMIS TO O-0030-REMIS.                    DO0030
    F65A-B6-FN.                                             DO0030
        EXIT.                                               DO0030
    F65A-CD05-FN.                                           DO0030
        EXIT.                                               DO0030
    F65A-FN.                                                DO0030
        EXIT.                                               DO0030
    F65R.                                                   DO0030
        IF     CATX NOT  =   "R"                            DO0030
           OR  FT  =   "1"                                  DO0030
                GO TO F65R-FN.                              DO0030
        IF     ICATR  >   IRR                               DO0030
           GO TO F65R-FN.                                   DO0030
    F65R-A4.                                                DO0030
        MOVE CD00-FOURNI TO O-0030-FOURNI.                  DO0030
    F65R-A4-FN.                                             DO0030
        EXIT.                                               DO0030
    F65R-CD10.                                              DO0030
        IF     CD10-CF NOT  =   "1"                         DO0030
           GO TO F65R-CD10-FN.                              DO0030
        MOVE CD10-QTMAC TO O-0030-QTMAC.                    DO0030
    F65R-A6.                                                DO0030
        MOVE CD10-QTMAL TO O-0030-QTMAL.                    DO0030
    F65R-A6-FN.                                             DO0030
        EXIT.                                               DO0030
    F65R-A7.                                                DO0030
```

```
        MOVE CD10-INFOR TO O-0030-INFOR.                        DO0030
    F65R-A7-FN.                                                 DO0030
        EXIT.                                                   DO0030
    F65R-CD10-FN.                                               DO0030
        EXIT.                                                   DO0030
    *        +-----------------------------------+             P000
    * LEVEL 10    I REMAINS TO BE DELIVERED       I             P000
    *        +-----------------------------------+             P000
    F65BB.                                                      P000
        IF      CD10-QTMAL NOT  =  ZERO                         P100
            COMPUTE WW10-QTMAR  =  CD10-QTMAC - CD10-QTMAL      P100
            MOVE WW10-QTMAR TO O-0030-QTMAR.                    P120
    F65BB-FN.                                                   P000
        EXIT.                                                   P000
    F65R-FN.                                                    DO0030
        EXIT.                                                   DO0030
    F65Z.                                                       DO0030
        IF      CATX NOT  =  "Z"                                DO0030
            GO TO F65Z-FN.                                      DO0030
    F65Z-ME00.                                                  DO0030
        IF      ME00-CF NOT  =  "1"                             DO0030
            GO TO F65Z-ME00-FN.                                 DO0030
        MOVE ME00-MESSA TO O-0030-MESSA.                        DO0030
    F65Z-ME00-FN.                                               DO0030
        EXIT.                                                   DO0030
    F65Z-FN.                                                    DO0030
        EXIT.                                                   DO0030
    F65-FN.                                                     DO0030
        EXIT.                                                   DO0030
    F6999-ITER-FI.                                              DO0030
        GO TO F55.                                              DO0030
    F6999-ITER-FT.                                              DO0030
        EXIT.                                                   DO0030
    F6999-FN.                                                   DO0030
        EXIT.                                                   DO0030
```

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4.14. F70 : ERROR PROCESSING

F70: ERROR PROCESSING

The ERROR PROCESSING (F70) function is always generated.

Sub-function F7010 contains:

. in F7010-A, testing of DE-ERR, positioning of the error attributes, access to the error message file, and coding of the error message on the screen.

. in F7010-B, testing of T-XEMKY, access to the error message file, and coding of the error message on the screen.

Sub-function F7020 is generated if at least one variable field exists on the Screen Call of Elements (-CE).

This sub-function positions the attributes of the fields on the screen in display.

An 'invisible' field ('DARK' attribute) retains this attribute, even if it is erroneous (for ex., with passwords).

```
    F70.                                                       DO0030
        EXIT.                                                  DO0030
    *        ***********************************               DO0030
    *        *                                 *               DO0030
    *        *   ERROR PROCESSING              *               DO0030
    *        *                                 *               DO0030
    *        ***********************************               DO0030
    F7010.                                                     DO0030
        MOVE ZERO TO K01 K02 K04                               DO0030
        MOVE 1 TO K03.                                         DO0030
        MOVE LIBRA TO EM00-LIBRA                               DO0030
        MOVE PROGR TO EM00-PROGR                               DO0030
        MOVE ZERO TO EM00-LINUM                                DO0030
        MOVE "H" TO EM00-ENTYP.                                DO0030
    F7010-A.                                                   DO0030
        IF      K02  =  INR                                    DO0030
           AND K03  <  IRR                                     DO0030
                MOVE INA TO K02                                DO0030
                ADD 1 TO K03.                                  DO0030
        ADD 1 TO K01 K02.                                      DO0030
        IF      DE-ER (K01)  >  "1"                            DO0030
           OR   <  "0"                                         DO0030
                MOVE "Y" TO DE-AT (4, K01)                     DO0030
                MOVE "B" TO DE-AT (1, K01)                     DO0030
                MOVE "N" TO DE-AT (2, K01)                     DO0030
                MOVE "W" TO DE-AT (3, K01)                     DO0030
           IF K04  <  IER                                      DO0030
                MOVE DE-ER (K01) TO EM00-ERTYP                 DO0030
                MOVE K02 TO EM00-ERCOD9                        DO0030
                MOVE EM00-XEMKY TO EM00-ERMSG                  DO0030
                PERFORM F80-EM00-R THRU F80-FN                 DO0030
                ADD 1 TO K04                                   DO0030
                MOVE EM00-ERMSG TO O-0030-ERMSG (K04).         DO0030
        IF      K01  <  INT                                    DO0030
           GO TO F7010-A.                                      DO0030
        MOVE ZERO TO K50R.                                     DO0030
    F7010-B.                                                   DO0030
        ADD 1 TO K50R                                          DO0030
        IF      K50R  >  K50L                                  DO0030
           OR   K04 NOT  <  IER                                DO0030
                GO TO F7010-FN.                                DO0030
        MOVE T-XEMKY (K50R) TO EM00-XEMKY EM00-ERMSG           DO0030
        PERFORM F80-EM00-R THRU F80-FN.                        DO0030
        ADD 1 TO K04                                           DO0030
        MOVE EM00-ERMSG TO O-0030-ERMSG (K04)                  DO0030
        GO TO F7010-B.                                         DO0030
    F7010-FN.                                                  DO0030
        EXIT.                                                  DO0030
    *        ***********************************               DO0030
    *        *                                 *               DO0030
    *        *   POSITIONING OF ATTRIBUTES     *               DO0030
    *        *                                 *               DO0030
    *        ***********************************               DO0030
    F7020.                                                     DO0030
        MOVE ZERO TO TALLY                                     DO0030
        EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "Y".          DO0030
        IF      TALLY NOT  <  0046                             DO0030
           MOVE ZERO TO TALLY                                  DO0030
           EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "Z".       DO0030
        IF      TALLY NOT  <  0046                             DO0030
           MOVE ZERO TO TALLY                                  DO0030
           EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "X".       DO0030
        IF      TALLY NOT  <  0046                             DO0030
           MOVE ZERO TO TALLY.                                 DO0030
        ADD 1 TO TALLY.                                        DO0030
        MOVE SV-AT (TALLY) TO K01                              DO0030
        MOVE AT-0030-YPCUR (K01) TO CMES-YPCUR.                DO0030
        MOVE ZERO TO K01.                                      DO0030
    F7020-A.                                                   DO0030
        ADD 1 TO K01.                                          DO0030
        IF      K01  >  INT                                    DO0030
           GO TO F7020-FN.                                     DO0030
        MOVE SV-AT (K01) TO K02.                               DO0030
        IF      SV-ATTRI (K01)  =  "D"                         DO0030
           AND DE-AT (1, K01) NOT  =  "D"                      DO0030
                MOVE "D" TO DE-AT (1, K01).                    DO0030
        IF      DE-AT (1, K01) NOT  =  SPACE                   DO0030
```

```
           MOVE DE-AT (1, K01) TO AT-0030-ATTRI (K02).      DO0030
       IF      DE-AT (2, K01) NOT  =  SPACE                 DO0030
           MOVE DE-AT (2, K01) TO AT-0030-ATTRP (K02).      DO0030
       IF      DE-AT (3, K01) NOT  =  SPACE                 DO0030
           MOVE DE-AT (3, K01) TO AT-0030-ATTRC (K02).      DO0030
       GO TO F7020-A.                                       DO0030
   F7020-FN.                                                DO0030
       EXIT.                                                DO0030
   F70-FN.                                                  DO0030
       EXIT.                                                DO0030
   END-OF-DISPLAY.                                          DO0030
       EXIT.                                                DO0030
```

4.15. F8Z : DISPLAY AND END OF PROGRAM

F8Z : DISPLAY AND END-OF-PROGRAM

The DISPLAY AND END-OF-PROGRAM (F8Z) function is always ge-
nerated.

Sub-function F8Z05 is generated if a call for help documen- tation is entered on
the Screen Definition screen. It ensures the memorization of screen fields in the
'HE' file.

Sub-function F8Z10 calls the PRCGI sub-program which formats the message,
and transfers the screen through SENDs.

Sub-function F8Z20 contains the end-of-program operations.

```
     F8Z.                                                          DO0030
         EXIT.                                                     DO0030
     F8Z05.                                                        DO0030
         IF      SCR-ER  =  "1"                                    DO0030
             NEXT SENTENCE                                         DO0030
         ELSE                                                      DO0030
             GO TO F8Z05-FN.                                       DO0030
         IF      K-S0030-DOC NOT  =  "1"                           DO0030
             GO TO F8Z05-A.                                        DO0030
         MOVE K-S0030-ERCOD9 TO K01 K02.                           DO0030
         IF      K02  >  INR                                       DO0030
             COMPUTE K02  =  K01 + (INR - INA) * (IRR - 1).        DO0030
         IF      K02  <  1                                         DO0030
             OR  K02  >  INT                                       DO0030
                 MOVE 1 TO K02.                                    DO0030
         MOVE "X" TO DE-AT (4, K02)                                DO0030
         PERFORM F7020 THRU F7020-FN.                              DO0030
     F8Z05-A.                                                      DO0030
         MOVE K-S0030-XTERM TO HE00-XTERM.                         DO0030
         IF      K-S0030-DOC  =  "1"                               DO0030
             PERFORM F80-HELP-R THRU F80-FN                        DO0030
             MOVE HE00-SCREEN TO O-0030                            DO0030
             MOVE "0" TO K-S0030-DOC                               DO0030
             GO TO F8Z05-FN.                                       DO0030
         IF      K-S0030-DOC NOT  =  ZERO                          DO0030
             GO TO F8Z05-FN.                                       DO0030
         PERFORM F80-HELP-R THRU F80-FN.                           DO0030
         MOVE K-S0030-XTERM TO HE00-XTERM                          DO0030
         MOVE O-0030 TO HE00-SCREEN.                               DO0030
         IF      IK  =  "1"                                        DO0030
             PERFORM F80-HELP-W THRU F80-FN                        DO0030
         ELSE                                                      DO0030
             PERFORM F80-HELP-RW THRU F80-FN.                      DO0030
     F8Z05-FN.                                                     DO0030
         EXIT.                                                     DO0030
     *       ***********************************                   DO0030
     *       *                                 *                   DO0030
     *       *  DISPLAY                        *                   DO0030
     *       *                                 *                   DO0030
     *       ***********************************                   DO0030
     F8Z10.                                                        DO0030
         IF      SCR-ER NOT  >  "1"                                DO0030
             AND DE-AT (4, 010)  =  "X"                            DO0030
                 PERFORM F7020 THRU F7020-FN.                      DO0030
         PERFORM F8145 THRU F8145-FN.                              DO0030
         MOVE 1 TO 7-CD02-XNDEST                                   DO0030
         MOVE K-S0030-XTERM TO 7-CD02-XTERM.                       DO0030
         MOVE 7-YCREX TO CMES-YCRE.                                DO0030
         MOVE SPACE TO K-S0030-PFKEY.                              DO0030
         IF      SCR-ER NOT  >  "1"                                DO0030
             MOVE PROGR TO K-S0030-PROGR                           DO0030
             MOVE 7-YCREE TO CMES-YCRE                             DO0030
             PERFORM F8105 THRU F8105-FN.                          DO0030
         MOVE 0030-MESSO TO CMES-YR00                              DO0030
         MOVE AT-0030-MESSA TO CMES-YO00                           DO0030
         MOVE K-S0030-YMAT TO CMES-YMAT                            DO0030
         CALL PRCGI USING CMES-COMMUNICATION.                      DO0030
         PERFORM F81SE THRU F81SE-FN.                              DO0030
     F8Z10-G.                                                      DO0030
         EXIT.                                                     DO0030
     F8Z10-FN.                                                     DO0030
         EXIT.                                                     DO0030
     *       ***********************************                   DO0030
     *       *                                 *                   DO0030
     *       *  END OF PROGRAM                 *                   DO0030
     *       *                                 *                   DO0030
     *       ***********************************                   DO0030
     F8Z20.                                                        DO0030
         MOVE PROGE TO NEXT-TPR.                                   DO0030
     F8Z20-A.                                                      DO0030
         EXIT PROGRAM.                                             DO0030
     F8Z20-FN.                                                     DO0030
         EXIT.                                                     DO0030
     F8Z-FN.                                                       DO0030
         EXIT.                                                     DO0030
```

4.16. F80 : PHYSICAL ACCESS TO SEGMENTS

F80: PHYSICAL SEGMENT ACCESS ROUTINES

The PHYSICAL SEGMENT ACCESS ROUTINES (F80) function, which is
generated when at least one segment is called in the screen, includes physical
access to the segments.

The coding for these access sub-functions is illustrated in the following example.
(The segment code from the program in this example is CD10.)

```
F80-CD10-R   Direct read.

F80-CD10-RU  Direct read with update.

F80-CD10-P   Positioning of a sequential read.

F80-CD10-RN  Sequential read.

F80-CD10-W   Write.

F80-CD10-RW  Rewrite.

F80-CD10-D   Deletion.

F80-CD10-UN  Unlock of record.
```

If a call for HELP documentation has been entered on the Screen Definition
screen, the physical access(es) to the back-up file is (are) generated. The coding
of the access sub-functions is illustrated as follows:

```
F80-HELP-W   Write.

F80-HELP-RW  Rewrite.

F80-HELP-R   Direct read.

F80-HELP-D   Deletion.
```

```
If the access methods are user-programmed, refer to Chapter
"USE OF STRUCTURED CODE" in the OLSD Reference Manual.
```

```
*          ***********************************          DO0030
*          *                                 *          DO0030
*          *  PHYSICAL SEGMENT ACCESS ROUTINES *        DO0030
*          *                                 *          DO0030
*          ***********************************          DO0030
 F80.                                                   DO0030
     EXIT.                                              DO0030
 F80-CD05-R.                                            DO0030
     READ CD-FILE INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD05-RU.                                           DO0030
     READ CD-FILE INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD05-RW.                                           DO0030
     REWRITE CD05 INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD05-UN.                                           DO0030
     GO TO F80-OK.                                      DO0030
 F8001-FN.                                              DO0030
     EXIT.                                              DO0030
 F80-CD10-R.                                            DO0030
     READ CD-FILE INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD10-RU.                                           DO0030
     READ CD-FILE INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD10-P.                                            DO0030
     START CD-FILE KEY NOT  <  CD00-CLECD INVALID KEY   DO0030
         GO TO F80-KO.                                  DO0030
 F80-CD10-RN.                                           DO0030
     READ CD-FILE                                       DO0030
         NEXT AT END                                    DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD10-W.                                            DO0030
     WRITE CD10 INVALID KEY                             DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD10-RW.                                           DO0030
     REWRITE CD10 INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD10-D.                                            DO0030
     DELETE CD-FILE INVALID KEY                         DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD10-UN.                                           DO0030
     GO TO F80-OK.                                      DO0030
 F8002-FN.                                              DO0030
     EXIT.                                              DO0030
 F80-CD20-RU.                                           DO0030
     READ CD-FILE INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD20-W.                                            DO0030
     WRITE CD20 INVALID KEY                             DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD20-RW.                                           DO0030
     REWRITE CD20 INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-CD20-UN.                                           DO0030
     GO TO F80-OK.                                      DO0030
 F8003-FN.                                              DO0030
     EXIT.                                              DO0030
 F80-FO10-RU.                                           DO0030
     READ FO-FILE INVALID KEY                           DO0030
         GO TO F80-KO.                                  DO0030
     GO TO F80-OK.                                      DO0030
 F80-FO10-RW.                                           DO0030
     REWRITE FO10 INVALID KEY                           DO0030
```

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```
             GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                   DO0030
   F80-FO10-UN.                                         DO0030
        GO TO F80-OK.                                   DO0030
   F8004-FN.                                            DO0030
        EXIT.                                           DO0030
   F80-ME00-R.                                          DO0030
        READ ME-FILE INVALID KEY                        DO0030
             GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                   DO0030
   F80-ME00-RU.                                         DO0030
        READ ME-FILE INVALID KEY                        DO0030
             GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                   DO0030
   F8005-FN.                                            DO0030
        EXIT.                                           DO0030
   F80-HELP-R.                                          DO0030
        READ HE-FILE INVALID KEY                        DO0030
             GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                   DO0030
   F80-HELP-W.                                          DO0030
        WRITE HE00 INVALID KEY                          DO0030
             GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                   DO0030
   F80-HELP-RW.                                         DO0030
        REWRITE HE00 INVALID KEY                        DO0030
             GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                   DO0030
   F80-HELP-D.                                          DO0030
        DELETE HE-FILE INVALID KEY                      DO0030
             GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                   DO0030
   F8095-FN.                                            DO0030
        EXIT.                                           DO0030
   F80-EM00-R.                                          DO0030
        READ EM-FILE INVALID KEY                        DO0030
             GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                   DO0030
   F8098-FN.                                            DO0030
        EXIT.                                           DO0030
   F80-OK.                                              DO0030
        MOVE "0" TO IK                                  DO0030
        MOVE PROGR TO XPROGR                            DO0030
        GO TO F80-FN.                                   DO0030
   F80-KO.                                              DO0030
        MOVE "1" TO IK                                  DO0030
        MOVE PROGR TO XPROGR.                           DO0030
   F8099-FN.                                            DO0030
        EXIT.                                           DO0030
   F80-FN.                                              DO0030
        EXIT.                                           DO0030
```

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4.17. F81 : PERFORMED VALIDATION FUNCTIONS

F81 : PERFORMED VALIDATIONS FUNCTIONS

The PERFORMED VALIDATIONS FUNCTIONS (F81) are always generated.

F81ER contains the abnormal end routine.

F81ES is called by a 'PERFORM' in order to check the return code after each 'SEND' or 'RECEIVE'.

F81RE is called by a PERFORM at the beginning of the program. It ensures the reception of the message.

F81SE is called by 'PERFORM' in the Screen Display procedure: it sends the message if no error was found.

F81UT stores the user's errors.

F8105 sends fixed labels for display; it is conditionned by the value of the CMES-YCRE field: F8105 is not executed when CMES-YCRE is set to 'G' through user written procedural code ('-P').

F8110 is generated when there is a numeric field on the screen. It contains the procedures which format the field to be validated in the work area, the numeric class validation, and the positioning of error messages, if required.

F8115 ensures the initialization of the output variable fields. It is performed in Function F0510 if the ICF indicator is equal to '0'.

F8120 is generated if at least one variable data element ('V') has a date format, or if an 'AD'-type operator is specified on the Procedural Code (-P) lines of the program (in this case, the F8120-ER and F8120-KO functions are not generated).

It also contains date formatting and validations.

F8125 is generated if the DYNPRT option is selected.

Allows the backup of the screen variable fields.

F8130 is generated if a call for HELP documentation is entered on the Screen Definition screen. It prepares the field to be saved in the backup file.

F8135 is generated if the DYNPRT option is selected.

Allows the loading of the message received with the protected field which have been backed up before the sending out of the message.

F8145 transfers the message which has been formatted in the work areas (OUTPUT-SCREEN-FIELDS) to the fields used for display.

F8150 checks the first character of each input field to detect either of the two documentation Help characters (screen-level or field-level documentation).

F8155 transfers the message received into the work areas (INPUT-SCREEN-FIELDS).

```
    F81.                                                              DO0030
        EXIT.                                                         DO0030
    *        ***********************************                      DO0030
    *        *                                 *                      DO0030
    *        *  ABNORMAL END PROCEDURE         *                      DO0030
    *        *                                 *                      DO0030
    *        ***********************************                      DO0030
    F81ER.                                                            DO0030
        CALL "ABORT".                                                 DO0030
    F81ER-FN.                                                         DO0030
        EXIT.                                                         DO0030
    F81ES.                                                            DO0030
        IF     7-CD01-XMSTA NOT  =  ZERO                              DO0030
            OR  7-CD02-XMSTA NOT  =  ZERO                             DO0030
               CALL "ABORT".                                          DO0030
    F81ES-FN.                                                         DO0030
        EXIT.                                                         DO0030
    F81RE.                                                            DO0030
        MOVE SPACE TO CMES-YR00                                       DO0030
        RECEIVE 7-CD01 MESSAGE INTO CMES-YR00 NO DATA                 DO0030
             MOVE SPACE TO 0030-MESSI                                 DO0030
             MOVE 7-CD01-XTERM TO K-S0030-XTERM                       DO0030
             MOVE ZERO TO ICF.                                        DO0030
    F81RE-FN.                                                         DO0030
        EXIT.                                                         DO0030
    F81SE.                                                            DO0030
        MOVE CMES-IND1 TO 7-CD02-XLOMES                               DO0030
        SEND 7-CD02 FROM CMES-YR00 WITH EGI AFTER ADVANCING 0 LINES   DO0030
             PERFORM F81ES THRU F81ES-FN.                             DO0030
    F81SE-FN.                                                         DO0030
        EXIT.                                                         DO0030
    *        ***********************************                      DO0030
    *        *                                 *                      DO0030
    *        *  MEMORIZATION OF USER'S ERRORS  *                      DO0030
    *        *                                 *                      DO0030
    *        ***********************************                      DO0030
    F81UT.                                                            DO0030
        IF     K50L  <  K50M                                          DO0030
           ADD 1 TO K50L                                              DO0030
           MOVE XEMKY TO T-XEMKY (K50L).                              DO0030
        MOVE "E" TO CAT-ER.                                           DO0030
    F81UT-FN.                                                         DO0030
        EXIT.                                                         DO0030
    F8105.                                                            DO0030
        IF     CMES-YCRE  =  "G"                                      DO0030
           GO TO F8105-FN.                                            DO0030
        MOVE "-" TO S01013.                                           DO0030
        MOVE "***  ORDER INPUT SCREEN  ***  " TO S01025.              DO0030
        MOVE "ORDER NUMBER:" TO S03004.                               DO0030
        MOVE "SYSTEM:" TO S03026.                                     DO0030
        MOVE "RELEASE:" TO S03054.                                    DO0030
        MOVE "CUST." TO S04004.                                       DO0030
        MOVE "CUST. REF.:" TO S06004.                                 DO0030
        MOVE "ORDER DATE:" TO S06049.                                 DO0030
        MOVE "COORDINATOR:" TO S07005.                                DO0030
        MOVE "DISCOUNT RATE:" TO S07046.                              DO0030
        MOVE "A" TO S09003.                                           DO0030
        MOVE "ITEM  " TO S09007.                                      DO0030
        MOVE "ORDERED " TO S09016.                                    DO0030
        MOVE "DELIV. " TO S09026.                                     DO0030
        MOVE "OUTST." TO S09035.                                      DO0030
        MOVE "REMARKS                        " TO S09042.             DO0030
        MOVE "PRINTING OF FORM  :" TO S20002.                         DO0030
        MOVE "CHOICE:" TO S20025.                                     DO0030
        MOVE "UPD : '7'," TO S20035.                                  DO0030
        MOVE "ORDERS (NEXT) : '8'," TO S20046.                        DO0030
        MOVE "MENU : '1', CUSTOMER LIST :" TO S21002.                 DO0030
        MOVE "'2', CUST. HIST : '3'," TO S21030.                      DO0030
        MOVE "ORDER LIST : '4'," TO S21053.                           DO0030
        MOVE "SCREEN DOC : '='," TO S22002.                           DO0030
        MOVE "DATA EL. DOC : '$'" TO S22020.                          DO0030
    F8105-FN.                                                         DO0030
        EXIT.                                                         DO0030
    *        ***********************************                      DO0030
    *        *                                 *                      DO0030
    *        *  NUMERIC VALIDATION             *                      DO0030
    *        *                                 *                      DO0030
```

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```
    *         ************************************          DO0030
    F8110.                                                  DO0030
        MOVE ZERO TO TPOINT K01 K02 K03 ZONUM3 ZONUM2 C9 C91.  DO0030
    F8110-1.                                                DO0030
        IF      K01  >  26                                 DO0030
            OR  K02  >  17                                 DO0030
                GO TO F8110-5.                             DO0030
        ADD 1 TO K01.                                      DO0030
        IF      C1 (K01)  =  SPACE                         DO0030
            OR  C1 (K01)  =  "."                           DO0030
                GO TO F8110-1.                             DO0030
        IF      C1 (K01) NOT  =  "-"                       DO0030
            AND C1 (K01) NOT  =  "+"                       DO0030
                GO TO F8110-2.                             DO0030
        IF      C9 NOT  =  ZERO                            DO0030
            MOVE "5" TO DEL-ER                             DO0030
            GO TO F8110-FN.                                DO0030
        IF      K02  =  ZERO                               DO0030
            MOVE "1" TO C91.                               DO0030
        IF      C1 (K01)  =  "+"                           DO0030
            MOVE 1 TO C9                                   DO0030
            GO TO F8110-1.                                 DO0030
        IF      SIGNE  =  " "                              DO0030
            MOVE "5" TO DEL-ER                             DO0030
            GO TO F8110-FN.                                DO0030
        MOVE -1 TO C9                                      DO0030
        GO TO F8110-1.                                     DO0030
    F8110-2.                                               DO0030
        IF      C1 (K01) NOT  =  ","                       DO0030
            GO TO F8110-4.                                 DO0030
        IF      TPOINT  =  "1"                             DO0030
            OR  NBCHP  =  0                                DO0030
                MOVE "5" TO DEL-ER                         DO0030
                GO TO F8110-FN.                            DO0030
    F8110-3.                                               DO0030
        IF      K02  >  NBCHA                              DO0030
            MOVE "5" TO DEL-ER                             DO0030
            GO TO F8110-FN.                                DO0030
        COMPUTE K04  =  18 - NBCHA + K02                   DO0030
        MOVE 1 TO C3 (K04)                                 DO0030
        DIVIDE ZONUM4 INTO ZONUM9                          DO0030
        MOVE NBCHA TO K02                                  DO0030
        MOVE "1" TO TPOINT                                 DO0030
        GO TO F8110-1.                                     DO0030
    F8110-4.                                               DO0030
        IF      C1 (K01) NOT NUMERIC                       DO0030
            MOVE "4" TO DEL-ER                             DO0030
            GO TO F8110-FN.                                DO0030
        IF      C9 NOT  =  ZERO                            DO0030
            AND C91  =  ZERO                               DO0030
                MOVE "5" TO DEL-ER                         DO0030
                GO TO F8110-FN.                            DO0030
        IF      C1 (K01)  =  "0"                           DO0030
            AND K02  =  ZERO                               DO0030
            AND TPOINT  =  "0"                             DO0030
                GO TO F8110-1.                             DO0030
        ADD 1 TO K02                                       DO0030
        MOVE C1 (K01) TO C2 (K02).                         DO0030
        IF      TPOINT  =  "1"                             DO0030
            ADD 1 TO K03.                                  DO0030
        IF      K03  >  NBCHP                              DO0030
            MOVE "5" TO DEL-ER                             DO0030
            GO TO F8110-FN.                                DO0030
        GO TO F8110-1.                                     DO0030
    F8110-5.                                               DO0030
        IF      TPOINT  =  "0"                             DO0030
            AND K02  >  ZERO                               DO0030
                GO TO F8110-3.                             DO0030
        IF      SIGNE NOT  =  "+"                          DO0030
            GO TO F8110-FN.                                DO0030
        IF      C9  =  ZERO                                DO0030
            MOVE 1 TO C9.                                  DO0030
        ADD NBCHA NBCHP GIVING K01                         DO0030
        MULTIPLY C9 BY C29 (K01).                          DO0030
        IF      C29 (K01)  =  ZERO                         DO0030
            AND C9  =  -1                                  DO0030
                MOVE C4 TO C2 (K01).                       DO0030
```

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```
    F8110-FN.                                                     DO0030
        EXIT.                                                     DO0030
    F8115.                                                        DO0030
        MOVE ALL "-" TO O-0030-CHOIX.                            DO0030
        MOVE ALL "-" TO O-0030-MATE.                             DO0030
        MOVE ALL "-" TO O-0030-RELEA.                            DO0030
        MOVE ALL "-" TO O-0030-RUE.                              DO0030
        MOVE ALL "-" TO O-0030-COPOS.                            DO0030
        MOVE ALL "-" TO O-0030-REFCLI.                           DO0030
        MOVE "..__.." TO O-0030-DATE.                            DO0030
        MOVE ALL "-" TO O-0030-CORRES.                           DO0030
        MOVE ALL "-" TO F-0030-REMIS.                            DO0030
        MOVE ZERO TO ICATR.                                      DO0030
    F8115-GRP.                                                   DO0030
        ADD 1 TO ICATR                                           DO0030
        MOVE P-0030-LINE (ICATR) TO O-0030-LINE                  DO0030
        MOVE ALL "-" TO O-0030-CODMVT.                           DO0030
        MOVE ALL "-" TO O-0030-FOURNI.                           DO0030
        MOVE ALL "-" TO F-0030-QTMAC.                            DO0030
        MOVE ALL "-" TO O-0030-INFOR.                            DO0030
        MOVE O-0030-LINE TO P-0030-LINE (ICATR).                 DO0030
        IF      ICATR  <   IRR                                   DO0030
            GO TO F8115-GRP.                                     DO0030
        MOVE ALL "-" TO O-0030-EDIT.                             DO0030
    F8115-FN.                                                    DO0030
        EXIT.                                                    DO0030
    *       ***********************************                  DO0030
    *       *                               *                    DO0030
    *       *  VALIDATION  AND  SETTING  OF DATE   *             DO0030
    *       *                               *                    DO0030
    *       ***********************************                  DO0030
    F8120.                                                       DO0030
        EXIT.                                                    DO0030
    F8120-C.                                                     DO0030
        MOVE DAT73C TO DATCTY.                                   DO0030
        MOVE DAT71C TO DAT71.                                    DO0030
        MOVE DAT72C TO DAT72.                                    DO0030
        MOVE DAT74C TO DAT73.                                    DO0030
        MOVE "00111" TO TT-DAT                                   DO0030
        GO TO F8120-T.                                           DO0030
    F8120-D.                                                     DO0030
        MOVE CENTUR TO DATCTY DAT73C.                            DO0030
        MOVE DAT71 TO DAT71C.                                    DO0030
        MOVE DAT72 TO DAT72C.                                    DO0030
        MOVE DAT73 TO DAT74C.                                    DO0030
        MOVE "00111" TO TT-DAT                                   DO0030
        GO TO F8120-T.                                           DO0030
    F8120-E.                                                     DO0030
        MOVE CENTUR TO DATCTY DAT83C.                            DO0030
        MOVE DAT81 TO DAT81C.                                    DO0030
        MOVE DAT82 TO DAT82C.                                    DO0030
        MOVE DAT83 TO DAT84C                                     DO0030
        MOVE DATSEP TO DAT8S1C DAT8S2C.                          DO0030
        MOVE "01011" TO TT-DAT                                   DO0030
        GO TO F8120-T.                                           DO0030
    F8120-G.                                                     DO0030
        MOVE DAT81G TO DATCTY.                                   DO0030
        MOVE DAT82G TO DAT61.                                    DO0030
        MOVE DAT83G TO DAT62.                                    DO0030
        MOVE DAT84G TO DAT63.                                    DO0030
        MOVE "10110" TO TT-DAT                                   DO0030
        GO TO F8120-T.                                           DO0030
    F8120-I.                                                     DO0030
        MOVE CENTUR TO DATCTY DAT61C.                            DO0030
        MOVE DAT61 TO DAT62C.                                    DO0030
        MOVE DAT62 TO DAT63C.                                    DO0030
        MOVE DAT63 TO DAT64C.                                    DO0030
        MOVE "10101" TO TT-DAT                                   DO0030
        GO TO F8120-T.                                           DO0030
    F8120-M.                                                     DO0030
        MOVE DAT83C TO DATCTY.                                   DO0030
        MOVE DAT81C TO DAT81.                                    DO0030
        MOVE DAT82C TO DAT82.                                    DO0030
        MOVE DAT84C TO DAT83                                     DO0030
        MOVE DATSEP TO DAT8S1 DAT8S2.                            DO0030
        MOVE "01011" TO TT-DAT                                   DO0030
        GO TO F8120-T.                                           DO0030
```

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```
    F8120-S.                                                        DO0030
        MOVE DAT61C TO DATCTY.                                      DO0030
        MOVE DAT62C TO DAT61.                                       DO0030
        MOVE DAT63C TO DAT62.                                       DO0030
        MOVE DAT64C TO DAT63.                                       DO0030
        MOVE "10101" TO TT-DAT.                                     DO0030
    F8120-T.                                                        DO0030
        IF      T-DAT (1)  =  "1"                                   DO0030
            MOVE DAT61 TO DAT73 DAT74C                              DO0030
            MOVE DAT62 TO DAT72 DAT72C                              DO0030
            MOVE DAT63 TO DAT71 DAT71C                              DO0030
            MOVE DATCTY TO DAT73C.                                  DO0030
        IF      T-DAT (2)  =  "1"                                   DO0030
            MOVE DAT81 TO DAT71 DAT71C                              DO0030
            MOVE DAT82 TO DAT72 DAT72C                              DO0030
            MOVE DAT83 TO DAT73 DAT74C                              DO0030
            MOVE DATCTY TO DAT73C.                                  DO0030
        IF      T-DAT (3)  =  "1"                                   DO0030
            MOVE DAT71 TO DAT81 DAT81C                              DO0030
            MOVE DAT72 TO DAT82 DAT82C                              DO0030
            MOVE DAT73 TO DAT83 DAT84C                              DO0030
            MOVE DATSEP TO DAT8S1 DAT8S2 DAT8S1C DAT8S2C            DO0030
            MOVE DATCTY TO DAT83C.                                  DO0030
        IF      T-DAT (4)  =  "1"                                   DO0030
            MOVE DAT71 TO DAT63 DAT64C                              DO0030
            MOVE DAT72 TO DAT62 DAT63C                              DO0030
            MOVE DAT73 TO DAT61 DAT62C                              DO0030
            MOVE DATCTY TO DAT61C.                                  DO0030
        IF      T-DAT (5)  =  "1"                                   DO0030
            MOVE DAT61 TO DAT82G                                    DO0030
            MOVE DAT62 TO DAT83G                                    DO0030
            MOVE DAT63 TO DAT84G                                    DO0030
            MOVE DATSET TO DAT8S1G DAT8S2G                          DO0030
            MOVE DATCTY TO DAT81G.                                  DO0030
    F8120-Z.                                                        DO0030
        EXIT.                                                       DO0030
    F8120-ER.                                                       DO0030
        MOVE "1" TO DEL-ER.                                         DO0030
        IF      DAT6 NOT NUMERIC                                    DO0030
            GO TO F8120-KO.                                         DO0030
        IF      DATCTY NOT NUMERIC                                  DO0030
            GO TO F8120-KO.                                         DO0030
        IF      DAT62  >  "12"                                      DO0030
          OR  DAT62  =  "00"                                        DO0030
          OR  DAT63  >  "31"                                        DO0030
          OR  DAT63  =  "00"                                        DO0030
                GO TO F8120-KO.                                     DO0030
        IF      DAT63  >  "30"                                      DO0030
            AND (DAT62  =  "04"                                     DO0030
          OR  DAT62  =  "06"                                        DO0030
          OR  DAT62  =  "09"                                        DO0030
          OR  DAT62  =  "11")   GO TO F8120-KO.                     DO0030
        IF      DAT62 NOT  =  "02"                                  DO0030
            GO TO F8120-FN.                                         DO0030
        IF      DAT63  >  "29"                                      DO0030
            GO TO F8120-KO.                                         DO0030
        IF      DAT619  =  ZERO                                     DO0030
            DIVIDE DATCTY9 BY 4 GIVING LEAP-REM                     DO0030
            COMPUTE LEAP-REM  =  DATCTY9 - 4 * LEAP-REM             DO0030
        ELSE                                                        DO0030
            DIVIDE DAT619 BY 4 GIVING LEAP-REM                      DO0030
            COMPUTE LEAP-REM  =  DAT619 - 4 * LEAP-REM.             DO0030
        IF      DAT63  <  "29"                                      DO0030
          OR  LEAP-REM  =  ZERO                                     DO0030
                GO TO F8120-FN.                                     DO0030
    F8120-KO.                                                       DO0030
        MOVE "5" TO DEL-ER.                                         DO0030
    F8120-FN.                                                       DO0030
        EXIT.                                                       DO0030
    *       ***********************************                     DO0030
    *       *                                 *                     DO0030
    *       *  HELP SUB-FUNCTION              *                     DO0030
    *       *                                 *                     DO0030
    *       ***********************************                     DO0030
    F8130.                                                          DO0030
        IF      I-0030-CHOIX NOT  =  HIGH-VALUE                     DO0030
            MOVE I-0030-CHOIX TO O-0030-CHOIX.                      DO0030
```

```
    IF    I-0030-MATE NOT  =  HIGH-VALUE                      DO0030
       MOVE I-0030-MATE TO O-0030-MATE.                       DO0030
    IF    I-0030-RELEA NOT  =  HIGH-VALUE                     DO0030
       MOVE I-0030-RELEA TO O-0030-RELEA.                     DO0030
    IF    I-0030-RUE NOT  =  HIGH-VALUE                       DO0030
       MOVE I-0030-RUE TO O-0030-RUE.                         DO0030
    IF    I-0030-COPOS NOT  =  HIGH-VALUE                     DO0030
       MOVE I-0030-COPOS TO O-0030-COPOS.                     DO0030
    IF    I-0030-REFCLI NOT  =  HIGH-VALUE                    DO0030
       MOVE I-0030-REFCLI TO O-0030-REFCLI.                   DO0030
    IF    I-0030-DATE NOT  =  HIGH-VALUE                      DO0030
       MOVE I-0030-DATE TO O-0030-DATE.                       DO0030
    IF    I-0030-CORRES NOT  =  HIGH-VALUE                    DO0030
       MOVE I-0030-CORRES TO O-0030-CORRES.                   DO0030
    IF    E-0030-REMIS NOT  =  HIGH-VALUE                     DO0030
       MOVE E-0030-REMIS TO F-0030-REMIS.                     DO0030
    MOVE ZERO TO ICATR.                                       DO0030
F8130-GRP.                                                    DO0030
    ADD 1 TO ICATR                                            DO0030
    MOVE J-0030-LINE (ICATR) TO I-0030-LINE                   DO0030
    MOVE P-0030-LINE (ICATR) TO O-0030-LINE                   DO0030
    IF    I-0030-CODMVT NOT  =  HIGH-VALUE                    DO0030
       MOVE I-0030-CODMVT TO O-0030-CODMVT.                   DO0030
    IF    I-0030-FOURNI NOT  =  HIGH-VALUE                    DO0030
       MOVE I-0030-FOURNI TO O-0030-FOURNI.                   DO0030
    IF    E-0030-QTMAC NOT  =  HIGH-VALUE                     DO0030
       MOVE E-0030-QTMAC TO F-0030-QTMAC.                     DO0030
    IF    I-0030-INFOR NOT  =  HIGH-VALUE                     DO0030
       MOVE I-0030-INFOR TO O-0030-INFOR.                     DO0030
    MOVE O-0030-LINE TO P-0030-LINE (ICATR).                  DO0030
    IF    ICATR  <  IRR                                       DO0030
       GO TO F8130-GRP.                                       DO0030
    IF    I-0030-EDIT NOT  =  HIGH-VALUE                      DO0030
       MOVE I-0030-EDIT TO O-0030-EDIT.                       DO0030
F8130-FN.                                                     DO0030
    EXIT.                                                     DO0030
F8145.                                                        DO0030
    MOVE T01004 TO S01004.                                    DO0030
    MOVE T01015 TO S01015.                                    DO0030
    MOVE T01060 TO S01060.                                    DO0030
    MOVE T01071 TO S01071.                                    DO0030
    MOVE T03018 TO S03018.                                    DO0030
    MOVE T03034 TO S03034.                                    DO0030
    MOVE T03063 TO S03063.                                    DO0030
    MOVE T04013 TO S04013.                                    DO0030
    MOVE T05009 TO S05009.                                    DO0030
    MOVE T05052 TO S05052.                                    DO0030
    MOVE T05074 TO S05074.                                    DO0030
    MOVE T06016 TO S06016.                                    DO0030
    MOVE T06061 TO S06061.                                    DO0030
    MOVE T07018 TO S07018.                                    DO0030
    MOVE T07061 TO S07061.                                    DO0030
    MOVE T10003 TO S10003.                                    DO0030
    MOVE T10007 TO S10007.                                    DO0030
    MOVE T10016 TO S10016.                                    DO0030
    MOVE T10026 TO S10026.                                    DO0030
    MOVE T10035 TO S10035.                                    DO0030
    MOVE T10042 TO S10042.                                    DO0030
    MOVE T11003 TO S11003.                                    DO0030
    MOVE T11007 TO S11007.                                    DO0030
    MOVE T11016 TO S11016.                                    DO0030
    MOVE T11026 TO S11026.                                    DO0030
    MOVE T11035 TO S11035.                                    DO0030
    MOVE T11042 TO S11042.                                    DO0030
    MOVE T12003 TO S12003.                                    DO0030
    MOVE T12007 TO S12007.                                    DO0030
    MOVE T12016 TO S12016.                                    DO0030
    MOVE T12026 TO S12026.                                    DO0030
    MOVE T12035 TO S12035.                                    DO0030
    MOVE T12042 TO S12042.                                    DO0030
    MOVE T13003 TO S13003.                                    DO0030
    MOVE T13007 TO S13007.                                    DO0030
    MOVE T13016 TO S13016.                                    DO0030
    MOVE T13026 TO S13026.                                    DO0030
    MOVE T13035 TO S13035.                                    DO0030
    MOVE T13042 TO S13042.                                    DO0030
    MOVE T14003 TO S14003.                                    DO0030
```

```
        MOVE T14007 TO S14007.                                  DO0030
        MOVE T14016 TO S14016.                                  DO0030
        MOVE T14026 TO S14026.                                  DO0030
        MOVE T14035 TO S14035.                                  DO0030
        MOVE T14042 TO S14042.                                  DO0030
        MOVE T15003 TO S15003.                                  DO0030
        MOVE T15007 TO S15007.                                  DO0030
        MOVE T15016 TO S15016.                                  DO0030
        MOVE T15026 TO S15026.                                  DO0030
        MOVE T15035 TO S15035.                                  DO0030
        MOVE T15042 TO S15042.                                  DO0030
        MOVE T16003 TO S16003.                                  DO0030
        MOVE T16007 TO S16007.                                  DO0030
        MOVE T16016 TO S16016.                                  DO0030
        MOVE T16026 TO S16026.                                  DO0030
        MOVE T16035 TO S16035.                                  DO0030
        MOVE T16042 TO S16042.                                  DO0030
        MOVE T17003 TO S17003.                                  DO0030
        MOVE T17007 TO S17007.                                  DO0030
        MOVE T17016 TO S17016.                                  DO0030
        MOVE T17026 TO S17026.                                  DO0030
        MOVE T17035 TO S17035.                                  DO0030
        MOVE T17042 TO S17042.                                  DO0030
        MOVE T18003 TO S18003.                                  DO0030
        MOVE T18007 TO S18007.                                  DO0030
        MOVE T18016 TO S18016.                                  DO0030
        MOVE T18026 TO S18026.                                  DO0030
        MOVE T18035 TO S18035.                                  DO0030
        MOVE T18042 TO S18042.                                  DO0030
        MOVE T20022 TO S20022.                                  DO0030
        MOVE T20033 TO S20033.                                  DO0030
        MOVE T23002 TO S23002.                                  DO0030
        MOVE T24002 TO S24002.                                  DO0030
    F8145-FN.                                                   DO0030
        EXIT.                                                   DO0030
    *        **********************************                 DO0030
    *        *                                *                 DO0030
    *        * SEARCH FOR DOCUMENTATION REQUEST  *              DO0030
    *        *                                *                 DO0030
    *        **********************************                 DO0030
    F8150.                                                      DO0030
        MOVE ZERO TO K-S0030-ERCOD.                             DO0030
        IF      I-0030-CHOIX = "$"                              DO0030
            MOVE HIGH-VALUE TO I-0030-CHOIX                     DO0030
            MOVE 001 TO K-S0030-ERCOD                           DO0030
            GO TO F8150-FN.                                     DO0030
        IF      I-0030-CHOIX = "="                              DO0030
            MOVE HIGH-VALUE TO I-0030-CHOIX                     DO0030
            MOVE SPACE TO K-S0030-ERCOD                         DO0030
            GO TO F8150-FN.                                     DO0030
        IF      I-0030-MATE  = "$"                              DO0030
            MOVE HIGH-VALUE TO I-0030-MATE                      DO0030
            MOVE 002 TO K-S0030-ERCOD                           DO0030
            GO TO F8150-FN.                                     DO0030
        IF      I-0030-MATE  = "="                              DO0030
            MOVE HIGH-VALUE TO I-0030-MATE                      DO0030
            MOVE SPACE TO K-S0030-ERCOD                         DO0030
            GO TO F8150-FN.                                     DO0030
        IF      I-0030-RELEA = "$"                              DO0030
            MOVE HIGH-VALUE TO I-0030-RELEA                     DO0030
            MOVE 003 TO K-S0030-ERCOD                           DO0030
            GO TO F8150-FN.                                     DO0030
        IF      I-0030-RELEA = "="                              DO0030
            MOVE HIGH-VALUE TO I-0030-RELEA                     DO0030
            MOVE SPACE TO K-S0030-ERCOD                         DO0030
            GO TO F8150-FN.                                     DO0030
        IF      I-0030-RUE   = "$"                              DO0030
            MOVE HIGH-VALUE TO I-0030-RUE                       DO0030
            MOVE 004 TO K-S0030-ERCOD                           DO0030
            GO TO F8150-FN.                                     DO0030
        IF      I-0030-RUE   = "="                              DO0030
            MOVE HIGH-VALUE TO I-0030-RUE                       DO0030
            MOVE SPACE TO K-S0030-ERCOD                         DO0030
            GO TO F8150-FN.                                     DO0030
        IF      I-0030-COPOS = "$"                              DO0030
            MOVE HIGH-VALUE TO I-0030-COPOS                     DO0030
            MOVE 005 TO K-S0030-ERCOD                           DO0030
```

```
         GO TO F8150-FN.                                   DO0030
  IF      I-0030-COPOS  =  "="                             DO0030
         MOVE HIGH-VALUE TO I-0030-COPOS                   DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-FN.                                   DO0030
  IF      I-0030-REFCLI  =  "$"                            DO0030
         MOVE HIGH-VALUE TO I-0030-REFCLI                  DO0030
         MOVE 006 TO K-S0030-ERCOD                         DO0030
         GO TO F8150-FN.                                   DO0030
  IF      I-0030-REFCLI  =  "="                            DO0030
         MOVE HIGH-VALUE TO I-0030-REFCLI                  DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-FN.                                   DO0030
  IF      I-0030-DATE  =  "$"                              DO0030
         MOVE HIGH-VALUE TO I-0030-DATE                    DO0030
         MOVE 007 TO K-S0030-ERCOD                         DO0030
         GO TO F8150-FN.                                   DO0030
  IF      I-0030-DATE  =  "="                              DO0030
         MOVE HIGH-VALUE TO I-0030-DATE                    DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-FN.                                   DO0030
  IF      I-0030-CORRES  =  "$"                            DO0030
         MOVE HIGH-VALUE TO I-0030-CORRES                  DO0030
         MOVE 008 TO K-S0030-ERCOD                         DO0030
         GO TO F8150-FN.                                   DO0030
  IF      I-0030-CORRES  =  "="                            DO0030
         MOVE HIGH-VALUE TO I-0030-CORRES                  DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-FN.                                   DO0030
  IF      E-0030-REMIS  =  "$"                             DO0030
         MOVE HIGH-VALUE TO E-0030-REMIS                   DO0030
         MOVE 009 TO K-S0030-ERCOD                         DO0030
         GO TO F8150-FN.                                   DO0030
  IF      E-0030-REMIS  =  "="                             DO0030
         MOVE HIGH-VALUE TO E-0030-REMIS                   DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-FN.                                   DO0030
     MOVE ZERO TO ICATR.                                   DO0030
 F8150-GRP.                                                DO0030
     ADD 1 TO ICATR                                        DO0030
     MOVE J-0030-LINE (ICATR) TO I-0030-LINE               DO0030
  IF      I-0030-CODMVT  =  "$"                            DO0030
         MOVE HIGH-VALUE TO I-0030-CODMVT                  DO0030
         MOVE 010 TO K-S0030-ERCOD                         DO0030
         GO TO F8150-A.                                    DO0030
  IF      I-0030-CODMVT  =  "="                            DO0030
         MOVE HIGH-VALUE TO I-0030-CODMVT                  DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-A.                                    DO0030
  IF      I-0030-FOURNI  =  "$"                            DO0030
         MOVE HIGH-VALUE TO I-0030-FOURNI                  DO0030
         MOVE 011 TO K-S0030-ERCOD                         DO0030
         GO TO F8150-A.                                    DO0030
  IF      I-0030-FOURNI  =  "="                            DO0030
         MOVE HIGH-VALUE TO I-0030-FOURNI                  DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-A.                                    DO0030
  IF      E-0030-QTMAC  =  "$"                             DO0030
         MOVE HIGH-VALUE TO E-0030-QTMAC                   DO0030
         MOVE 012 TO K-S0030-ERCOD                         DO0030
         GO TO F8150-A.                                    DO0030
  IF      E-0030-QTMAC  =  "="                             DO0030
         MOVE HIGH-VALUE TO E-0030-QTMAC                   DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-A.                                    DO0030
  IF      I-0030-INFOR  =  "$"                             DO0030
         MOVE HIGH-VALUE TO I-0030-INFOR                   DO0030
         MOVE 013 TO K-S0030-ERCOD                         DO0030
         GO TO F8150-A.                                    DO0030
  IF      I-0030-INFOR  =  "="                             DO0030
         MOVE HIGH-VALUE TO I-0030-INFOR                   DO0030
         MOVE SPACE TO K-S0030-ERCOD                       DO0030
         GO TO F8150-A.                                    DO0030
     MOVE I-0030-LINE TO J-0030-LINE (ICATR).              DO0030
  IF      ICATR  <  IRR                                    DO0030
         GO TO F8150-GRP.                                  DO0030
  IF      I-0030-EDIT  =  "$"                              DO0030
```

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```
            MOVE HIGH-VALUE TO I-0030-EDIT                      DO0030
            MOVE 014 TO K-S0030-ERCOD                           DO0030
            GO TO F8150-FN.                                     DO0030
    IF     I-0030-EDIT  =  "="                                  DO0030
            MOVE HIGH-VALUE TO I-0030-EDIT                      DO0030
            MOVE SPACE TO K-S0030-ERCOD                         DO0030
            GO TO F8150-FN.                                     DO0030
        GO TO F8150-B.                                          DO0030
    F8150-A.                                                    DO0030
        MOVE I-0030-LINE TO J-0030-LINE (ICATR).               DO0030
    F8150-B.                                                    DO0030
        EXIT.                                                   DO0030
    F8150-FN.                                                   DO0030
        EXIT.                                                   DO0030
    F8155.                                                      DO0030
        MOVE S03034 TO R03034.                                 DO0030
        MOVE S03063 TO R03063.                                 DO0030
        MOVE S05009 TO R05009.                                 DO0030
        MOVE S05052 TO R05052.                                 DO0030
        MOVE S05074 TO R05074.                                 DO0030
        MOVE S06016 TO R06016.                                 DO0030
        MOVE S06061 TO R06061.                                 DO0030
        MOVE S07018 TO R07018.                                 DO0030
        MOVE S07061 TO R07061.                                 DO0030
        MOVE S10003 TO R10003.                                 DO0030
        MOVE S10007 TO R10007.                                 DO0030
        MOVE S10016 TO R10016.                                 DO0030
        MOVE S10026 TO R10026.                                 DO0030
        MOVE S10035 TO R10035.                                 DO0030
        MOVE S10042 TO R10042.                                 DO0030
        MOVE S11003 TO R11003.                                 DO0030
        MOVE S11007 TO R11007.                                 DO0030
        MOVE S11016 TO R11016.                                 DO0030
        MOVE S11026 TO R11026.                                 DO0030
        MOVE S11035 TO R11035.                                 DO0030
        MOVE S11042 TO R11042.                                 DO0030
        MOVE S12003 TO R12003.                                 DO0030
        MOVE S12007 TO R12007.                                 DO0030
        MOVE S12016 TO R12016.                                 DO0030
        MOVE S12026 TO R12026.                                 DO0030
        MOVE S12035 TO R12035.                                 DO0030
        MOVE S12042 TO R12042.                                 DO0030
        MOVE S13003 TO R13003.                                 DO0030
        MOVE S13007 TO R13007.                                 DO0030
        MOVE S13016 TO R13016.                                 DO0030
        MOVE S13026 TO R13026.                                 DO0030
        MOVE S13035 TO R13035.                                 DO0030
        MOVE S13042 TO R13042.                                 DO0030
        MOVE S14003 TO R14003.                                 DO0030
        MOVE S14007 TO R14007.                                 DO0030
        MOVE S14016 TO R14016.                                 DO0030
        MOVE S14026 TO R14026.                                 DO0030
        MOVE S14035 TO R14035.                                 DO0030
        MOVE S14042 TO R14042.                                 DO0030
        MOVE S15003 TO R15003.                                 DO0030
        MOVE S15007 TO R15007.                                 DO0030
        MOVE S15016 TO R15016.                                 DO0030
        MOVE S15026 TO R15026.                                 DO0030
        MOVE S15035 TO R15035.                                 DO0030
        MOVE S15042 TO R15042.                                 DO0030
        MOVE S16003 TO R16003.                                 DO0030
        MOVE S16007 TO R16007.                                 DO0030
        MOVE S16016 TO R16016.                                 DO0030
        MOVE S16026 TO R16026.                                 DO0030
        MOVE S16035 TO R16035.                                 DO0030
        MOVE S16042 TO R16042.                                 DO0030
        MOVE S17003 TO R17003.                                 DO0030
        MOVE S17007 TO R17007.                                 DO0030
        MOVE S17016 TO R17016.                                 DO0030
        MOVE S17026 TO R17026.                                 DO0030
        MOVE S17035 TO R17035.                                 DO0030
        MOVE S17042 TO R17042.                                 DO0030
        MOVE S18003 TO R18003.                                 DO0030
        MOVE S18007 TO R18007.                                 DO0030
        MOVE S18016 TO R18016.                                 DO0030
        MOVE S18026 TO R18026.                                 DO0030
        MOVE S18035 TO R18035.                                 DO0030
```

```
        MOVE S18042 TO R18042.                          DO0030
        MOVE S20022 TO R20022.                          DO0030
        MOVE S20033 TO R20033.                          DO0030
    F8155-FN.                                           DO0030
        EXIT.                                           DO0030
    F81-FN.                                             DO0030
        EXIT.                                           DO0030
```

4.18. CALLED USER FUNCTIONS

```
     *             +---------------------------------+
     * LEVEL 10    I ZIP CODE VALIDATION            I
     *             +---------------------------------+
      F93CP.
          MOVE 1 TO IWP20R.
      F93CP-100.
          IF      IWP20R NOT  >  IWP20L
              AND WP20-COPOS (IWP20R) NOT  =  WP30-COPOS
                  ADD 1 TO IWP20R
                  GO TO F93CP-100.
          IF      IWP20R  >  IWP20L
              MOVE "5" TO DEL-ER
              GO TO F93CP-FN.
      F93CP-FN.
          EXIT.
```

5. QUESTAR-TERMINAL TYPE PROGRAM

5.1. INTRODUCTION

INTRODUCTION

This chapter presents a program generated with the QUESTAR variant.

The differences which might be found in comparison with the VIP-type program are:

  * In the validation areas:

  The table of variable field attributes in the ERROR-MESS level,

  * In F7020 function:

  The positioning of attributes for erroneous fields.

5.2. GENERATED PROGRAM

```
            IDENTIFICATION DIVISION.
            PROGRAM-ID. DO0030P.                                     DO0030
            AUTHOR.      ***  ORDER INPUT SCREEN  ***.               DO0030
            DATE-COMPILED. 07/28/94.                                 DO0030
            ENVIRONMENT DIVISION.                                    DO0030
            CONFIGURATION SECTION.                                   DO0030
            SOURCE-COMPUTER. LEVEL-64.                               DO0030
            OBJECT-COMPUTER. LEVEL-64.                               DO0030
            SPECIAL-NAMES.                                           DO0030
                  DECIMAL-POINT IS COMMA                             DO0030
                   OBJECT IS COMMA.                                  DO0030
            INPUT-OUTPUT SECTION.                                    DO0030
            FILE-CONTROL.                                            DO0030
             COPY   SELECT-CD-FILE.                                  DO0030
             COPY   SELECT-EM-FILE.                                  DO0030
             COPY   SELECT-FO-FILE.                                  DO0030
             COPY   SELECT-HE-FILE.                                  DO0030
             COPY   SELECT-ME-FILE.                                  DO0030
            DATA DIVISION.                                           DO0030
            FILE SECTION.                                            DO0030
            FD            CD-FILE                                     DO0030
                    BLOCK     00001 RECORDS                          DO0030
                    DATA RECORD                                      DO0030
                            CD00                                     DO0030
                            CD05                                     DO0030
                            CD10                                     DO0030
                            CD20                                     DO0030
                    LABEL RECORD STANDARD.                           DO0030
            01          CD00.                                        DO0030
              10          CD00-KEYCD.                                DO0030
               15          CD00-COCARA   PICTURE X.                  DO0030
               15          CD00-NUCOM    PICTURE 9(5).               DO0030
               15          CD00-FOURNI   PICTURE X(3).               DO0030
              10          CD00-SUITE.                                DO0030
               15          FILLER        PICTURE X(00157).           DO0030
            01          CD05.                                        DO0030
              10          FILLER        PICTURE X(00009).            DO0030
              10          CD05-NUCLIE   PICTURE 9(8).                DO0030
              10          CD05-DATE     PICTURE X(6).                DO0030
              10          CD05-RELEA    PICTURE X(3).                DO0030
              10          CD05-REFCLI   PICTURE X(30).               DO0030
              10          CD05-RUE      PICTURE X(40).               DO0030
              10          CD05-COPOS    PICTURE X(5).                DO0030
              10          CD05-VILLE    PICTURE X(20).               DO0030
              10          CD05-CORRES   PICTURE X(25).               DO0030
              10          CD05-REMIS    PICTURE S9(4)V99.            DO0030
              10          CD05-MATE     PICTURE X(8).                DO0030
              10          CD05-LANGU    PICTURE X.                   DO0030
              10          CD05-FILLER   PICTURE X(5).                DO0030
            01          CD10.                                        DO0030
              10          FILLER        PICTURE X(00009).            DO0030
              10          CD10-QTMAC    PICTURE 99.                  DO0030
              10          CD10-QTMAL    PICTURE 99.                  DO0030
              10          CD10-INFOR    PICTURE X(35).               DO0030
              10          CD10-ADFOU    PICTURE X(100).              DO0030
              10          FILLER        PICTURE X(00018).            DO0030
            01          CD20.                                        DO0030
              10          FILLER        PICTURE X(00009).            DO0030
              10          CD20-EDIT     PICTURE X.                   DO0030
              10          FILLER        PICTURE X(00156).            DO0030
            FD            EM-FILE                                    DO0030
                    BLOCK     00001 RECORDS                          DO0030
                    DATA RECORD                                      DO0030
                            EM00                                     DO0030
                    LABEL RECORD STANDARD.                           DO0030
            01          EM00.                                        DO0030
              05          EM00-EMKEY.                                DO0030
               10          EM00-LIBRA   PICTURE X(3).                DO0030
               10          EM00-ENTYP   PICTURE X.                   DO0030
               10          EM00-XEMKY.                               DO0030
                15          EM00-PROGR   PICTURE X(6).               DO0030
                15          EM00-ERCOD.                              DO0030
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        20       EM00-ERCOD9  PICTURE 9(3).                    DO0030
     15          EM00-ERTYP   PICTURE X.                       DO0030
   10            EM00-LINUM   PICTURE 9(3).                     DO0030
 05              EM00-ERLVL   PICTURE X.                        DO0030
 05              EM00-ERMSG   PICTURE X(66).                    DO0030
 05              FILLER       PICTURE X(6).                     DO0030
FD           FO-FILE                                           DO0030
     BLOCK    00001 RECORDS                                    DO0030
     DATA RECORD                                               DO0030
             FO00                                              DO0030
             FO10                                              DO0030
         LABEL RECORD STANDARD.                                DO0030
01           FO00.                                             DO0030
 10          FO00-SUITE.                                       DO0030
   15        FILLER       PICTURE X(00057).                    DO0030
01           FO10.                                             DO0030
 10          FO10-CLEFO.                                       DO0030
   15        FO10-FOURNI  PICTURE X(3).                        DO0030
   15        FO10-MATE    PICTURE X(8).                        DO0030
   15        FO10-RELEA   PICTURE X(3).                        DO0030
   15        FO10-LANGU   PICTURE X.                           DO0030
 10          FO10-QTMAS   COMPUTATIONAL-1.                     DO0030
 10          FO10-QTMAM   PICTURE 9(4).                        DO0030
 10          FO10-LIBFO   PICTURE X(20).                       DO0030
 10          FO10-DATE    PICTURE X(6).                        DO0030
 10          FO10-HEURE   PICTURE X(8).                        DO0030
 10          FO10-FILLER  PICTURE XX.                          DO0030
FD           HE-FILE                                           DO0030
     BLOCK    00001 RECORDS                                    DO0030
     DATA RECORD                                               DO0030
             HE00                                              DO0030
         LABEL RECORD STANDARD.                                DO0030
01           HE00.                                             DO0030
 05          HE00-XTERM   PICTURE X(12).                       DO0030
 05          HE00-SCREEN  PICTURE X(1920).                     DO0030
FD           ME-FILE                                           DO0030
     BLOCK    00001 RECORDS                                    DO0030
     DATA RECORD                                               DO0030
             ME00                                              DO0030
         LABEL RECORD STANDARD.                                DO0030
01           ME00.                                             DO0030
 10          ME00-CLEME.                                       DO0030
   15        ME00-COPERS  PICTURE X(5).                        DO0030
   15        ME00-NUMORD  PICTURE XX.                          DO0030
 10          ME00-MESSA   PICTURE X(75).                       DO0030
WORKING-STORAGE SECTION.                                       DO0030
01           WSS-BEGIN.                                        DO0030
 05          FILLER       PICTURE X(7) VALUE "WORKING".        DO0030
 05          IK           PICTURE X.                           DO0030
 05          BLANC        PICTURE X VALUE SPACE.               DO0030
 05          OPER         PICTURE X.                           DO0030
 05          OPERD        PICTURE X VALUE SPACE.               DO0030
 05          CATX         PICTURE X.                           DO0030
 05          CATM         PICTURE X.                           DO0030
 05          ICATR        PICTURE 99.                          DO0030
 05          SCR-ER       PICTURE X.                           DO0030
 05          FT           PICTURE X.                           DO0030
 05          ICF          PICTURE X.                           DO0030
 05          OCF          PICTURE X.                           DO0030
 05          CAT-ER       PICTURE X.                           DO0030
 05          7-HT         PICTURE X VALUE ""06"".              DO0030
 05          I-PFKEY      PICTURE XX.                          DO0030
 05          7-SENDVAR    PICTURE X VALUE "1".                 DO0030
 05          INA          PICTURE 999 VALUE 010.               DO0030
 05          INR          PICTURE 999 VALUE 016.               DO0030
 05          INZ          PICTURE 999 VALUE 017.               DO0030
 05          IRR          PICTURE 99 VALUE 09.                 DO0030
 05          INT          PICTURE 999 VALUE 065.               DO0030
 05          IER          PICTURE 99 VALUE 01.                 DO0030
 05          DEL-ER       PICTURE X.                           DO0030
01           PACBASE-CONSTANTS.                                DO0030
* OLSD DATES PACE30 : 10/03/94                                 DO0030
*          PACE80 : 10/03/94   PAC7SG : 940503                 DO0030
 05          SESSI        PICTURE X(5) VALUE "0413 ".          DO0030
 05          LIBRA        PICTURE X(3) VALUE "AD7".            DO0030
 05          DATGN        PICTURE X(8) VALUE "07/28/94".       DO0030
 05          PROGR        PICTURE X(6) VALUE "DO0030".         DO0030
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        05              PROGE       PICTURE X(8) VALUE "DO0030P ".    DO0030
        05              TIMGN       PICTURE X(8) VALUE "11:14:05".    DO0030
        05              USERCO      PICTURE X(8) VALUE "PDMM    ".    DO0030
        05              PRDOC       PICTURE X(8) VALUE "DOP050".      DO0030
        05              5-0030-PROGE PICTURE X(8).                   DO0030
    01                  DATCE.                                       DO0030
        05              CENTUR      PICTURE XX VALUE "19".            DO0030
        05              DATOR.                                       DO0030
          10            DATOA       PICTURE XX.                      DO0030
          10            DATOM       PICTURE XX.                      DO0030
          10            DATOJ       PICTURE XX.                      DO0030
    01                  DAT6.                                        DO0030
      10                DAT61.                                       DO0030
          15            DAT619      PICTURE 99.                      DO0030
      10                DAT62.                                       DO0030
          15            DAT629      PICTURE 99.                      DO0030
      10                DAT63       PICTURE XX.                      DO0030
    01                  DAT7.                                        DO0030
      10                DAT71       PICTURE XX.                      DO0030
      10                DAT72       PICTURE XX.                      DO0030
      10                DAT73       PICTURE XX.                      DO0030
    01                  DAT8.                                        DO0030
      10                DAT81       PICTURE XX.                      DO0030
      10                DAT8S1      PICTURE X.                       DO0030
      10                DAT82       PICTURE XX.                      DO0030
      10                DAT8S2      PICTURE X.                       DO0030
      10                DAT83       PICTURE XX.                      DO0030
    01                  DATSEP      PICTURE X VALUE "/".             DO0030
    01                  DATSET      PICTURE X VALUE "-".             DO0030
    01                  DATCTY.                                      DO0030
        05              DATCTY9     PICTURE 99.                      DO0030
    01                  DAT6C.                                       DO0030
      10                DAT61C      PICTURE XX.                      DO0030
      10                DAT62C      PICTURE XX.                      DO0030
      10                DAT63C      PICTURE XX.                      DO0030
      10                DAT64C      PICTURE XX.                      DO0030
    01                  DAT7C.                                       DO0030
      10                DAT71C      PICTURE XX.                      DO0030
      10                DAT72C      PICTURE XX.                      DO0030
      10                DAT73C      PICTURE XX.                      DO0030
      10                DAT74C      PICTURE XX.                      DO0030
    01                  DAT8C.                                       DO0030
      10                DAT81C      PICTURE XX.                      DO0030
      10                DAT8S1C     PICTURE X VALUE "/".             DO0030
      10                DAT82C      PICTURE XX.                      DO0030
      10                DAT8S2C     PICTURE X VALUE "/".             DO0030
      10                DAT83C      PICTURE XX.                      DO0030
      10                DAT84C      PICTURE XX.                      DO0030
    01                  DAT8G.                                       DO0030
      10                DAT81G      PICTURE XX.                      DO0030
      10                DAT82G      PICTURE XX.                      DO0030
      10                DAT8S1G     PICTURE X VALUE "-".             DO0030
      10                DAT83G      PICTURE XX.                      DO0030
      10                DAT8S2G     PICTURE X VALUE "-".             DO0030
      10                DAT84G      PICTURE XX.                      DO0030
    01                  TIMCO.                                       DO0030
      02                TIMCOG.                                      DO0030
        05              TIMCOH      PICTURE XX.                      DO0030
        05              TIMCOM      PICTURE XX.                      DO0030
        05              TIMCOS      PICTURE XX.                      DO0030
      02                TIMCOC      PICTURE XX.                      DO0030
    01                  TIMDAY.                                      DO0030
        05              TIMHOU      PICTURE XX.                      DO0030
        05              TIMS1       PICTURE X VALUE ":".             DO0030
        05              TIMMIN      PICTURE XX.                      DO0030
        05              TIMS2       PICTURE X VALUE ":".             DO0030
        05              TIMSEC      PICTURE XX.                      DO0030
    01                  CONFIGURATIONS.                              DO0030
        05              CD05-CF     PICTURE X.                       DO0030
        05              CD10-CF     PICTURE X.                       DO0030
        05              CD20-CF     PICTURE X.                       DO0030
        05              FO10-CF     PICTURE X.                       DO0030
        05              ME00-CF     PICTURE X.                       DO0030
    01                  0030-MESSO.                                  *AA040
      02                0030-MESSO1.                                 *AA040
        05              FILLER      PICTURE XXX VALUE ""40,214,13"". *AA040
        05              FILLER      PICTURE XXX VALUE ""20,065,128"". *AA040
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05          FILLER      PICTURE X VALUE ""29"".          *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          S01004      PICTURE X(008) VALUE SPACE.      *AA040
05          FILLER      PICTURE XXX VALUE ""20,065,108"". *AA040
05          FILLER      PICTURE X(001) VALUE "-".         *AA040
05          FILLER      PICTURE XXX VALUE ""20,065,076"". *AA040
05          S01015      PICTURE X(005) VALUE SPACE.      *AA040
05          FILLER      PICTURE XXX VALUE ""20,065,248"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,241";"241,149"".       *AA040
05          FILLER      PICTURE X(030) VALUE            *AA040
                        "***  ORDER INPUT SCREEN  ***  ". *AA040
05          FILLER      PICTURE XXX VALUE ""20,065,234"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          S01060      PICTURE X(010) VALUE SPACE.      *AA040
05          FILLER      PICTURE XXX VALUE ""20,065,135"". *AA040
05          S01071      PICTURE X(008) VALUE SPACE.      *AA040
05          FILLER      PICTURE XXX VALUE ""20,128,128"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,241";"241,149"".       *AA040
05          FILLER      PICTURE X(013) VALUE            *AA040
                        "ORDER NUMBER:".                 *AA040
05          FILLER      PICTURE XXX VALUE ""20,128,241"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          S03018      PICTURE X(005) VALUE SPACE.      *AA040
05          FILLER      PICTURE XXX VALUE ""20,128,249"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,241";"241,149"".       *AA040
05          FILLER      PICTURE X(007) VALUE "SYSTEM:".  *AA040
05          FILLER      PICTURE XXX VALUE ""20,128,125"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".     *AA040
05          FILLER      PICTURE XXX VALUE ""20,128,202"". *AA040
05          FILLER      PICTURE X VALUE ""29"".          *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          FILLER      PICTURE XXX VALUE ""20,128,228"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,241";"241,149"".       *AA040
05          FILLER      PICTURE X(008) VALUE "RELEASE:". *AA040
05          FILLER      PICTURE XXX VALUE ""20,128,091"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".     *AA040
05          FILLER      PICTURE XXX VALUE ""20,128,130"". *AA040
05          FILLER      PICTURE X VALUE ""29"".          *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          FILLER      PICTURE XXX VALUE ""20,124,128"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,241";"241,149"".       *AA040
05          FILLER      PICTURE X(005) VALUE "CUST.".    *AA040
05          FILLER      PICTURE XXX VALUE ""20,124,079"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          S04013      PICTURE X(050) VALUE SPACE.      *AA040
05          FILLER      PICTURE XXX VALUE ""20,092,126"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".     *AA040
05          FILLER      PICTURE XXX VALUE ""20,092,216"". *AA040
05          FILLER      PICTURE X VALUE ""29"".          *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          FILLER      PICTURE XXX VALUE ""20,092,218"". *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".     *AA040
05          FILLER      PICTURE XXX VALUE ""20,092,136"". *AA040
05          FILLER      PICTURE X VALUE ""29"".          *AA040
05          FILLER      PICTURE X(6) VALUE              *AA040
                        ""040,075,243";"243,149"".       *AA040
05          FILLER      PICTURE XXX VALUE ""20,092,137"". *AA040
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05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XX VALUE ""30,241"".   *AA040
05          FILLER          PICTURE XXX VALUE ""20,092,150"". *AA040
05          FILLER          PICTURE X VALUE ""29"".        *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XXX VALUE ""20,109,128"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,241";"241,149"".     *AA040
05          FILLER          PICTURE X(011) VALUE           *AA040
                            "CUST. REF.:".                 *AA040
05          FILLER          PICTURE XXX VALUE ""20,109,076"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XX VALUE ""30,241"".   *AA040
05          FILLER          PICTURE XXX VALUE ""20,109,213"". *AA040
05          FILLER          PICTURE X VALUE ""29"".        *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XXX VALUE ""20,109,215"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,241";"241,149"".     *AA040
05          FILLER          PICTURE X(011) VALUE           *AA040
                            "ORDER DATE:".                 *AA040
05          FILLER          PICTURE XXX VALUE ""20,109,075"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XX VALUE ""30,241"".   *AA040
05          FILLER          PICTURE XXX VALUE ""20,109,131"". *AA040
05          FILLER          PICTURE X VALUE ""29"".        *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XXX VALUE ""20,081,124"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,241";"241,149"".     *AA040
05          FILLER          PICTURE X(012) VALUE           *AA040
                            "COORDINATOR:".                *AA040
05          FILLER          PICTURE XXX VALUE ""20,081,241"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XX VALUE ""30,241"".   *AA040
05          FILLER          PICTURE XXX VALUE ""20,081,210"". *AA040
05          FILLER          PICTURE X VALUE ""29"".        *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XXX VALUE ""20,081,212"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,241";"241,149"".     *AA040
05          FILLER          PICTURE X(014) VALUE           *AA040
                            "DISCOUNT RATE:".              *AA040
05          FILLER          PICTURE XXX VALUE ""20,081,075"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XX VALUE ""30,241"".   *AA040
05          FILLER          PICTURE XXX VALUE ""20,081,133"". *AA040
05          FILLER          PICTURE X VALUE ""29"".        *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
05          FILLER          PICTURE XXX VALUE ""20,078,080"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,241";"241,149"".     *AA040
05          FILLER          PICTURE X(001) VALUE "A".      *AA040
05          FILLER          PICTURE XXX VALUE ""20,078,081"". *AA040
05          FILLER          PICTURE X(006) VALUE "ITEM  ". *AA040
05          FILLER          PICTURE XXX VALUE ""20,078,098"". *AA040
05          FILLER          PICTURE X(008) VALUE "ORDERED ". *AA040
05          FILLER          PICTURE XXX VALUE ""20,078,250"". *AA040
05          FILLER          PICTURE X(007) VALUE "DELIV. ". *AA040
05          FILLER          PICTURE XXX VALUE ""20,078,195"". *AA040
05          FILLER          PICTURE X(006) VALUE "OUTST.". *AA040
05          FILLER          PICTURE XXX VALUE ""20,078,202"". *AA040
05          FILLER          PICTURE X(035) VALUE           *AA040
            "REMARKS                         ".            *AA040
05          FILLER          PICTURE XXX VALUE ""20,094,080"". *AA040
05          FILLER          PICTURE X(6) VALUE             *AA040
                            ""040,075,243";"243,149"".     *AA040
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05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,124"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,109"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,094"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,076"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,242"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,249"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
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05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,095"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,194"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,197"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,201"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,094,148"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,093,080"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,093,124"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,093,109"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,093,094"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,093,076"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,093,242"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
05          FILLER      PICTURE XXX VALUE ""20,093,249"".   *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,241";"241,149"".          *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,093,095"".   *AA040
05          FILLER      PICTURE X VALUE ""29"".             *AA040
05          FILLER      PICTURE X(6) VALUE                  *AA040
                        ""040,075,243";"243,149"".          *AA040
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       05          FILLER          PICTURE XXX VALUE ""20,093,194"". *AA040
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                        "PRINTING OF FORM  :".            *AA040
05          FILLER      PICTURE XXX VALUE ""20,244,245"". *AA040
05          FILLER      PICTURE X(6) VALUE               *AA040
                        ""040,075,243";"243,149"".        *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER      PICTURE XXX VALUE ""20,244,247"". *AA040
05          FILLER      PICTURE X VALUE ""29"".           *AA040
05          FILLER      PICTURE X(6) VALUE               *AA040
                        ""040,075,243";"243,149"".        *AA040
05          FILLER      PICTURE XXX VALUE ""20,244,248"". *AA040
05          FILLER      PICTURE X(6) VALUE               *AA040
                        ""040,075,243";"243,149"".        *AA040
05          FILLER      PICTURE X(007) VALUE "CHOICE:".   *AA040
05          FILLER      PICTURE XXX VALUE ""20,244,112"". *AA040
05          FILLER      PICTURE X(6) VALUE               *AA040
                        ""040,075,243";"243,149"".        *AA040
05          FILLER      PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER      PICTURE XXX VALUE ""20,244,194"". *AA040
05          FILLER      PICTURE X VALUE ""29"".           *AA040
05          FILLER      PICTURE X(6) VALUE               *AA040
                        ""040,075,243";"243,149"".        *AA040
05          FILLER      PICTURE X(010) VALUE "UPD : '7',".*AA040
05          FILLER      PICTURE XXX VALUE ""20,244,213"". *AA040
05          FILLER      PICTURE X(020) VALUE             *AA040
                        "ORDERS (NEXT) : '8',".           *AA040
05          FILLER      PICTURE XXX VALUE ""20,245,065"". *AA040
05          FILLER      PICTURE X(6) VALUE               *AA040
                        ""040,075,243";"243,149"".        *AA040
05          FILLER      PICTURE X(027) VALUE             *AA040
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                                   "MENU : '1', CUSTOMER LIST :".   *AA040
       05           FILLER         PICTURE XXX VALUE ""20,245,127"". *AA040
       05           FILLER         PICTURE X(022) VALUE             *AA040
                                   "'2', CUST. HIST : '3',".        *AA040
       05           FILLER         PICTURE XXX VALUE ""20,245,228"". *AA040
       05           FILLER         PICTURE X(017) VALUE             *AA040
                                   "ORDER LIST : '4',".             *AA040
       05           FILLER         PICTURE XXX VALUE ""20,246,065"". *AA040
       05           FILLER         PICTURE X(6) VALUE               *AA040
                                   ""040,075,243";"243,149"".       *AA040
       05           FILLER         PICTURE X(017) VALUE             *AA040
                                   "SCREEN DOC : '=',".             *AA040
       05           FILLER         PICTURE XXX VALUE ""20,246,244"". *AA040
       05           FILLER         PICTURE X(018) VALUE             *AA040
                                   "DATA EL. DOC : '$'".            *AA040
       05           FILLER         PICTURE XXX VALUE ""20,247,065"". *AA040
       05           FILLER         PICTURE X(6) VALUE               *AA040
                                   ""040,075,241";"241,149"".       *AA040
       05           S23002         PICTURE X(075) VALUE SPACE.      *AA040
       05           FILLER         PICTURE XXX VALUE ""20,248,065"". *AA040
       05           FILLER         PICTURE X(6) VALUE               *AA040
                                   ""040,075,241";"241,149"".       *AA040
       05           S24002         PICTURE X(072) VALUE SPACE.      *AA040
    02              0030-MESSO4     REDEFINES 0030-MESSO1.          *AA040
       03           0030-CX        PICTURE X OCCURS 2150.           *AA040
    02              0030-MESSV.                                     *AA040
       03           FILLER         PICTURE XXX VALUE ""40,213,13"". *AA040
       03           0030-MESSO2.                                    *AA040
          05        S03034         PICTURE X(008) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S03063         PICTURE X(003) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S05009         PICTURE X(040) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S05052         PICTURE X(020) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S05074         PICTURE X(005) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S06016         PICTURE X(030) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S06061         PICTURE X(006) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S07018         PICTURE X(025) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S07061         PICTURE X(008) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S10003         PICTURE X(001) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S10007         PICTURE X(003) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S10016         PICTURE X(002) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S10026         PICTURE X(002) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S10035         PICTURE X(002) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S10042         PICTURE X(035) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S11003         PICTURE X(001) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S11007         PICTURE X(003) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S11016         PICTURE X(002) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S11026         PICTURE X(002) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S11035         PICTURE X(002) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S11042         PICTURE X(035) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S12003         PICTURE X(001) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S12007         PICTURE X(003) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S12016         PICTURE X(002) VALUE SPACE.      *AA040
          05        FILLER         PICTURE X VALUE ""06"".          *AA040
          05        S12026         PICTURE X(002) VALUE SPACE.      *AA040
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          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S12035        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S12042        PICTURE X(035) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S13003        PICTURE X(001) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S13007        PICTURE X(003) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S13016        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S13026        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S13035        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S13042        PICTURE X(035) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S14003        PICTURE X(001) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S14007        PICTURE X(003) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S14016        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S14026        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S14035        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S14042        PICTURE X(035) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S15003        PICTURE X(001) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S15007        PICTURE X(003) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S15016        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S15026        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S15035        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S15042        PICTURE X(035) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S16003        PICTURE X(001) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S16007        PICTURE X(003) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S16016        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S16026        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S16035        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S16042        PICTURE X(035) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S17003        PICTURE X(001) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S17007        PICTURE X(003) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S17016        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S17026        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S17035        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S17042        PICTURE X(035) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S18003        PICTURE X(001) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S18007        PICTURE X(003) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S18016        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S18026        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S18035        PICTURE X(002) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
          05        S18042        PICTURE X(035) VALUE SPACE.          *AA040
          05        FILLER        PICTURE X VALUE ""06"".              *AA040
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        05        S20022      PICTURE X(001) VALUE SPACE.      *AA040
        05        FILLER      PICTURE X VALUE ""06"".          *AA040
        05        S20033      PICTURE X(001) VALUE SPACE.      *AA040
     03           0030-MESSO3 REDEFINES 0030-MESSO2.           *AA040
        05        0030-CP     PICTURE X OCCURS 0616.           *AA040
     02           0030-MESSF.                                  *AA040
        05        FILLER      PICTURE XX VALUE ""40,214"".     *AA040
        05        FILLER      PICTURE XXX VALUE ""20,094,128"". *AA040
        05        FILLER      PICTURE XX VALUE ""40,213"".     *AA040
  01              INPUT-0030.                                  *AA042
     05           FILLER      PICTURE X(065).                  *AA042
     05           R20033      PICTURE X(1).                    *AA042
     05           R03034      PICTURE X(8).                    *AA042
     05           R03063      PICTURE X(3).                    *AA042
     05           R05009      PICTURE X(40).                   *AA042
     05           R05052      PICTURE X(20).                   *AA042
     05           R05074      PICTURE X(5).                    *AA042
     05           R06016      PICTURE X(30).                   *AA042
     05           R06061      PICTURE X(6).                    *AA042
     05           R07018      PICTURE X(25).                   *AA042
     05           R07061      PICTURE X(8).                    *AA042
     05           R10003      PICTURE X(1).                    *AA042
     05           R10007      PICTURE X(3).                    *AA042
     05           R10016      PICTURE X(2).                    *AA042
     05           R10026      PICTURE X(2).                    *AA042
     05           R10035      PICTURE X(2).                    *AA042
     05           R10042      PICTURE X(35).                   *AA042
     05           R11003      PICTURE X(1).                    *AA042
     05           R11007      PICTURE X(3).                    *AA042
     05           R11016      PICTURE X(2).                    *AA042
     05           R11026      PICTURE X(2).                    *AA042
     05           R11035      PICTURE X(2).                    *AA042
     05           R11042      PICTURE X(35).                   *AA042
     05           R12003      PICTURE X(1).                    *AA042
     05           R12007      PICTURE X(3).                    *AA042
     05           R12016      PICTURE X(2).                    *AA042
     05           R12026      PICTURE X(2).                    *AA042
     05           R12035      PICTURE X(2).                    *AA042
     05           R12042      PICTURE X(35).                   *AA042
     05           R13003      PICTURE X(1).                    *AA042
     05           R13007      PICTURE X(3).                    *AA042
     05           R13016      PICTURE X(2).                    *AA042
     05           R13026      PICTURE X(2).                    *AA042
     05           R13035      PICTURE X(2).                    *AA042
     05           R13042      PICTURE X(35).                   *AA042
     05           R14003      PICTURE X(1).                    *AA042
     05           R14007      PICTURE X(3).                    *AA042
     05           R14016      PICTURE X(2).                    *AA042
     05           R14026      PICTURE X(2).                    *AA042
     05           R14035      PICTURE X(2).                    *AA042
     05           R14042      PICTURE X(35).                   *AA042
     05           R15003      PICTURE X(1).                    *AA042
     05           R15007      PICTURE X(3).                    *AA042
     05           R15016      PICTURE X(2).                    *AA042
     05           R15026      PICTURE X(2).                    *AA042
     05           R15035      PICTURE X(2).                    *AA042
     05           R15042      PICTURE X(35).                   *AA042
     05           R16003      PICTURE X(1).                    *AA042
     05           R16007      PICTURE X(3).                    *AA042
     05           R16016      PICTURE X(2).                    *AA042
     05           R16026      PICTURE X(2).                    *AA042
     05           R16035      PICTURE X(2).                    *AA042
     05           R16042      PICTURE X(35).                   *AA042
     05           R17003      PICTURE X(1).                    *AA042
     05           R17007      PICTURE X(3).                    *AA042
     05           R17016      PICTURE X(2).                    *AA042
     05           R17026      PICTURE X(2).                    *AA042
     05           R17035      PICTURE X(2).                    *AA042
     05           R17042      PICTURE X(35).                   *AA042
     05           R18003      PICTURE X(1).                    *AA042
     05           R18007      PICTURE X(3).                    *AA042
     05           R18016      PICTURE X(2).                    *AA042
     05           R18026      PICTURE X(2).                    *AA042
     05           R18035      PICTURE X(2).                    *AA042
     05           R18042      PICTURE X(35).                   *AA042
     05           R20022      PICTURE X(1).                    *AA042
     05           FILLER      PICTURE X(70).                   *AA042
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01              0030-MESSI   REDEFINES INPUT-0030.        *AA042
  05            0030-CA      PICTURE X OCCURS 0687.        *AA042
01              INPUT-SCREEN-FIELDS REDEFINES INPUT-0030. *AA045
  02            I-0030.                                    *AA045
    05          FILLER       PICTURE X(065).              *AA045
    05          I-0030-CHOIX PICTURE X.                   *AA045
    05          I-0030-MATE  PICTURE X(8).                *AA045
    05          I-0030-RELEA PICTURE X(3).                *AA045
    05          I-0030-RUE   PICTURE X(40).               *AA045
    05          I-0030-VILLE PICTURE X(20).               *AA045
    05          I-0030-COPOS PICTURE X(5).                *AA045
    05          I-0030-REFCLI PICTURE X(30).              *AA045
    05          I-0030-DATE  PICTURE X(6).                *AA045
    05          I-0030-CORRES PICTURE X(25).              *AA045
    05          E-0030-REMIS.                             *AA045
      10        I-0030-REMIS PICTURE S9(4)V99.            *AA045
      10        FILLER       PICTURE X(2).                *AA045
    05          J-0030-LINE  OCCURS 9.                    *AA045
      10        FILLER       PICTURE X(45).               *AA045
    05          I-0030-EDIT  PICTURE X.                   *AA045
    05          FILLER       PICTURE X(70).               *AA045
01              OUTPUT-0030.                              *AA049
  05            T20033       PICTURE X(1).                *AA049
  05            T01004       PICTURE X(8).                *AA049
  05            T01015       PICTURE X(5).                *AA049
  05            T01060       PICTURE X(10).               *AA049
  05            T01071       PICTURE X(8).                *AA049
  05            T03018       PICTURE X(5).                *AA049
  05            T03034       PICTURE X(8).                *AA049
  05            T03063       PICTURE X(3).                *AA049
  05            T04013       PICTURE X(50).               *AA049
  05            T05009       PICTURE X(40).               *AA049
  05            T05052       PICTURE X(20).               *AA049
  05            T05074       PICTURE X(5).                *AA049
  05            T06016       PICTURE X(30).               *AA049
  05            T06061       PICTURE X(6).                *AA049
  05            T07018       PICTURE X(25).               *AA049
  05            T07061       PICTURE X(8).                *AA049
  05            T10003       PICTURE X(1).                *AA049
  05            T10007       PICTURE X(3).                *AA049
  05            T10016       PICTURE X(2).                *AA049
  05            T10026       PICTURE X(2).                *AA049
  05            T10035       PICTURE X(2).                *AA049
  05            T10042       PICTURE X(35).               *AA049
  05            T11003       PICTURE X(1).                *AA049
  05            T11007       PICTURE X(3).                *AA049
  05            T11016       PICTURE X(2).                *AA049
  05            T11026       PICTURE X(2).                *AA049
  05            T11035       PICTURE X(2).                *AA049
  05            T11042       PICTURE X(35).               *AA049
  05            T12003       PICTURE X(1).                *AA049
  05            T12007       PICTURE X(3).                *AA049
  05            T12016       PICTURE X(2).                *AA049
  05            T12026       PICTURE X(2).                *AA049
  05            T12035       PICTURE X(2).                *AA049
  05            T12042       PICTURE X(35).               *AA049
  05            T13003       PICTURE X(1).                *AA049
  05            T13007       PICTURE X(3).                *AA049
  05            T13016       PICTURE X(2).                *AA049
  05            T13026       PICTURE X(2).                *AA049
  05            T13035       PICTURE X(2).                *AA049
  05            T13042       PICTURE X(35).               *AA049
  05            T14003       PICTURE X(1).                *AA049
  05            T14007       PICTURE X(3).                *AA049
  05            T14016       PICTURE X(2).                *AA049
  05            T14026       PICTURE X(2).                *AA049
  05            T14035       PICTURE X(2).                *AA049
  05            T14042       PICTURE X(35).               *AA049
  05            T15003       PICTURE X(1).                *AA049
  05            T15007       PICTURE X(3).                *AA049
  05            T15016       PICTURE X(2).                *AA049
  05            T15026       PICTURE X(2).                *AA049
  05            T15035       PICTURE X(2).                *AA049
  05            T15042       PICTURE X(35).               *AA049
  05            T16003       PICTURE X(1).                *AA049
  05            T16007       PICTURE X(3).                *AA049
  05            T16016       PICTURE X(2).                *AA049
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    05            T16026      PICTURE X(2).                   *AA049
    05            T16035      PICTURE X(2).                   *AA049
    05            T16042      PICTURE X(35).                  *AA049
    05            T17003      PICTURE X(1).                   *AA049
    05            T17007      PICTURE X(3).                   *AA049
    05            T17016      PICTURE X(2).                   *AA049
    05            T17026      PICTURE X(2).                   *AA049
    05            T17035      PICTURE X(2).                   *AA049
    05            T17042      PICTURE X(35).                  *AA049
    05            T18003      PICTURE X(1).                   *AA049
    05            T18007      PICTURE X(3).                   *AA049
    05            T18016      PICTURE X(2).                   *AA049
    05            T18026      PICTURE X(2).                   *AA049
    05            T18035      PICTURE X(2).                   *AA049
    05            T18042      PICTURE X(35).                  *AA049
    05            T20022      PICTURE X(1).                   *AA049
    05            T23002      PICTURE X(75).                  *AA049
    05            T24002      PICTURE X(72).                  *AA049
01                OUTPUT-SCREEN-FIELDS REDEFINES OUTPUT-0030.  *AA050
  02              O-0030.                                      *AA050
    05            O-0030-CHOIX  PICTURE X.                    *AA050
    05            O-0030-PROGE  PICTURE X(8).                 *AA050
    05            O-0030-SESSI  PICTURE X(5).                 *AA050
    05            O-0030-DATEM  PICTURE X(10).                *AA050
    05            O-0030-HEURE  PICTURE X(8).                 *AA050
    05            O-0030-NUCOM  PICTURE 9(5).                 *AA050
    05            O-0030-MATE   PICTURE X(8).                 *AA050
    05            O-0030-RELEA  PICTURE X(3).                 *AA050
    05            O-0030-RAISOC PICTURE X(50).                *AA050
    05            O-0030-RUE    PICTURE X(40).                *AA050
    05            O-0030-VILLE  PICTURE X(20).                *AA050
    05            O-0030-COPOS  PICTURE X(5).                 *AA050
    05            O-0030-REFCLI PICTURE X(30).                *AA050
    05            O-0030-DATE   PICTURE X(6).                 *AA050
    05            O-0030-CORRES PICTURE X(25).                *AA050
    05            F-0030-REMIS.                               *AA050
      10          O-0030-REMIS  PICTURE -(04)9,9(02).         *AA050
    05            P-0030-LINE   OCCURS 9.                     *AA050
      10          FILLER        PICTURE X(45).                *AA050
    05            O-0030-EDIT   PICTURE X.                    *AA050
    05            O-0030-MESSA  PICTURE X(75).                *AA050
    05            O-0030-ERMS.                                *AA050
      10          FILLER        OCCURS 1.                     *AA050
        15        O-0030-ERMSG1 PICTURE X(72).               *AA050
01                REPEAT-LINE.                                *AA050
  02              I-0030-LINE.                                *AA050
    05            I-0030-CODMVT PICTURE X.                    *AA050
    05            I-0030-FOURNI PICTURE X(3).                 *AA050
    05            E-0030-QTMAC.                               *AA050
      10          I-0030-QTMAC  PICTURE 99.                  *AA050
    05            E-0030-QTMAL.                               *AA050
      10          I-0030-QTMAL  PICTURE 99.                  *AA050
    05            E-0030-QTMAR.                               *AA050
      10          I-0030-QTMAR  PICTURE 99.                  *AA050
    05            I-0030-INFOR  PICTURE X(35).                *AA050
  02              O-0030-LINE.                                *AA050
    05            O-0030-CODMVT PICTURE X.                    *AA050
    05            O-0030-FOURNI PICTURE X(3).                 *AA050
    05            F-0030-QTMAC.                               *AA050
      10          O-0030-QTMAC  PICTURE Z(01)9.              *AA050
    05            F-0030-QTMAL.                               *AA050
      10          O-0030-QTMAL  PICTURE Z(01)9.              *AA050
    05            F-0030-QTMAR.                               *AA050
      10          O-0030-QTMAR  PICTURE Z(01)9.              *AA050
    05            O-0030-INFOR  PICTURE X(35).                *AA050
01                NUMERIC-FIELDS.                             *AA050
    05            9-0030-REMIS  PICTURE X(5) VALUE "+0402".   *AA050
    05            9-0030-QTMAC  PICTURE X(5) VALUE " 0200".   *AA050
    05            9-0030-QTMAL  PICTURE X(5) VALUE " 0200".   *AA050
    05            9-0030-QTMAR  PICTURE X(5) VALUE " 0200".   *AA050
01                ERROR-MESS.                                 *AA060
  02              ERROR-MESSO1.                               *AA060
    05            FILLER        PICTURE XX VALUE ""40,214"".  *AA060
    05            X-ATT1.                                     *AA060
      10          FILLER        PICTURE XXX VALUE ""20,244,112"". *AA060
      10          FILLER        PICTURE X(6) VALUE           *AA060
                                ""040,075,243";"243,149"".    *AA060
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           10          FILLER       PICTURE X(6) VALUE              *AA060
                                    ""040,075,241";"241,149"".      *AA060
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                                    ""040,075,243";"243,149"".      *AA060
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           10          FILLER       PICTURE X(6) VALUE              *AA060
                                    ""040,075,243";"243,149"".      *AA060
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           10          FILLER       PICTURE X(6) VALUE              *AA060
                                    ""040,075,241";"241,149"".      *AA060
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           10          FILLER       PICTURE X(6) VALUE              *AA060
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        10        FILLER      PICTURE XXX VALUE ""20,079,201"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,243";"243,149"".        *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,243";"243,149"".        *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
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        10        FILLER      PICTURE XXX VALUE ""20,097,076"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,241";"241,149"".        *AA060
        10        FILLER      PICTURE XXX VALUE ""20,097,194"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,243";"243,149"".        *AA060
        10        FILLER      PICTURE XXX VALUE ""20,097,201"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,243";"243,149"".        *AA060
        10        FILLER      PICTURE XXX VALUE ""20,076,080"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,243";"243,149"".        *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,243";"243,149"".        *AA060
        10        FILLER      PICTURE XXX VALUE ""20,076,249"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,241";"241,149"".        *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,243";"243,149"".        *AA060
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        10        FILLER      PICTURE X(6) VALUE                 *AA060
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        10        FILLER      PICTURE XXX VALUE ""20,098,249"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,241";"241,149"".        *AA060
        10        FILLER      PICTURE XXX VALUE ""20,098,194"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
                               ""040,075,243";"243,149"".        *AA060
        10        FILLER      PICTURE XXX VALUE ""20,098,201"".  *AA060
        10        FILLER      PICTURE X(6) VALUE                 *AA060
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        10        FILLER      PICTURE XXX VALUE ""20,241,080"".  *AA060
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      10        FILLER      PICTURE X(6) VALUE            *AA060
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      10        FILLER      PICTURE X(6) VALUE            *AA060
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      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,241";"241,149"".    *AA060
      10        FILLER      PICTURE XXX VALUE ""20,241,194"". *AA060
      10        FILLER      PICTURE X(6) VALUE            *AA060
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      10        FILLER      PICTURE XXX VALUE ""20,241,201"". *AA060
      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,243";"243,149"".    *AA060
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      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,243";"243,149"".    *AA060
      10        FILLER      PICTURE XXX VALUE ""20,242,109"". *AA060
      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,243";"243,149"".    *AA060
      10        FILLER      PICTURE XXX VALUE ""20,242,076"". *AA060
      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,243";"243,149"".    *AA060
      10        FILLER      PICTURE XXX VALUE ""20,242,249"". *AA060
      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,241";"241,149"".    *AA060
      10        FILLER      PICTURE XXX VALUE ""20,242,194"". *AA060
      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,243";"243,149"".    *AA060
      10        FILLER      PICTURE XXX VALUE ""20,242,201"". *AA060
      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,243";"243,149"".    *AA060
      10        FILLER      PICTURE XXX VALUE ""20,244,245"". *AA060
      10        FILLER      PICTURE X(6) VALUE            *AA060
                           ""040,075,243";"243,149"".    *AA060
   05           X-ATT2      REDEFINES X-ATT1.            *AA060
      10        X-ATT3      OCCURS 065.                  *AA060
        15      X-ATPC      PICTURE XXX.                 *AA060
        15      X-ATTR.                                  *AA060
          20    FILLER      PICTURE XX.                  *AA060
          20    X-ATTRI     PICTURE X.                   *AA060
          20    FILLER      PICTURE X.                   *AA060
          20    X-ATTRP     PICTURE X.                   *AA060
          20    FILLER      PICTURE X.                   *AA060
   05           X-ERMSBLANC.                             *AA060
      10        FILLER      PICTURE XXX VALUE ""20,248,080"". *AA060
      10        FILLER      PICTURE X(072) VALUE SPACE.   *AA060
   05           X-ERMS.                                  *AA060
      10        FILLER      PICTURE XXX VALUE ""20,248,080"". *AA060
      10        FILLER      PICTURE X(072).              *AA060
   05           X-ERMS1     REDEFINES X-ERMS.            *AA060
      10        X-ERMS2     OCCURS 01.                   *AA060
        15      FILLER      PICTURE XXX.                 *AA060
        15      O-0030-ERMSG  PICTURE X(072).            *AA060
 02             ERROR-MESSF.                             *AA060
   05           FILLER      PICTURE XX VALUE ""40,214"".  *AA060
   05           X-ATPC1     PICTURE XXX.                 *AA060
   05           FILLER      PICTURE X VALUE ""19"".       *AA060
   05           FILLER      PICTURE XX VALUE ""40,213"".  *AA060
 01             0030-MPRIOR  PICTURE X(80).              *AA076
 01             MESSAGE-LENGTH.                          *AA100
   05           0030-LENGTH  PICTURE 9(4) VALUE 2776.    *AA100
   05           MESS-LENGF   PICTURE 9(4) VALUE 2150.    *AA100
   05           0030-XLOMES  PICTURE 9(4) VALUE 0616.    *AA100
   05           MESS-LENGV   PICTURE 9(4) VALUE 0619.    *AA100
   05           0030-LMESSF  PICTURE 9(4) VALUE 0007.    *AA100
   05           0030-XLOUT   PICTURE 9(4) VALUE 0008.    *AA100
   05           ERROR-LENGTH PICTURE 9(4) VALUE 0668.    *AA100
   05           ERROR-LENGF  PICTURE 9(4) VALUE 0737.    *AA100
 01             VALIDATION-TABLE-FIELDS.                 *AA150
 02             DE-ERR.                                  *AA150
   05           DE-ER       PICTURE X OCCURS 065.        *AA150
 02             DE-E        REDEFINES DE-ERR.            *AA150
   03           ER-0030-BEGIN.                           *AA150
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        05          ER-0030-CHOIX PICTURE X.                  *AA150
        05          ER-0030-MATE  PICTURE X.                  *AA150
        05          ER-0030-RELEA PICTURE X.                  *AA150
        05          ER-0030-RUE   PICTURE X.                  *AA150
        05          ER-0030-VILLE PICTURE X.                  *AA150
        05          ER-0030-COPOS PICTURE X.                  *AA150
        05          ER-0030-REFCLI PICTURE X.                 *AA150
        05          ER-0030-DATE  PICTURE X.                  *AA150
        05          ER-0030-CORRES PICTURE X.                 *AA150
        05          ER-0030-REMIS PICTURE X.                  *AA150
     03             PS-30-LINE    OCCURS 9.                   *AA150
        05          FILLER        PICTURE X(0006).            *AA150
     03             ER-0030-END.                              *AA150
        05          ER-0030-EDIT  PICTURE X.                  *AA150
   02               ER-0030-LINE.                             *AA150
        05          ER-0030-CODMVT PICTURE X.                 *AA150
        05          ER-0030-FOURNI PICTURE X.                 *AA150
        05          ER-0030-QTMAC PICTURE X.                  *AA150
        05          ER-0030-QTMAL PICTURE X.                  *AA150
        05          ER-0030-QTMAR PICTURE X.                  *AA150
        05          ER-0030-INFOR PICTURE X.                  *AA150
01                  TT-DAT.                                   *AA200
   05               T-DAT         PICTURE X OCCURS 5.         *AA200
01                  LEAP-YEAR.                                *AA200
   05               LEAP-FLAG     PICTURE X.                  *AA200
   05               LEAP-REM      PICTURE 99.                 *AA200
01                  USERS-ERROR.                              *AA200
   05               XEMKY.                                    *AA200
     10             XPROGR        PICTURE X(6).               *AA200
     10             XERCD         PICTURE X(4).               *AA200
   05               T-XEMKY       OCCURS 01.                  *AA200
     10             T-XPROGR      PICTURE X(6).               *AA200
     10             T-XERCD       PICTURE X(4).               *AA200
01                  PACBASE-INDEXES COMPUTATIONAL-1.          *AA200
   05               K01           PICTURE S9(4).              *AA200
   05               K02           PICTURE S9(4).              *AA200
   05               K03           PICTURE S9(4).              *AA200
   05               K04           PICTURE S9(4).              *AA200
   05               K50R          PICTURE S9(4) VALUE ZERO.   *AA200
   05               K50L          PICTURE S9(4) VALUE ZERO.   *AA200
   05               K50M          PICTURE S9(4) VALUE +01.    *AA200
   05               IWP20L        PICTURE S9(4) VALUE ZERO.   *AA200
   05               IWP20R        PICTURE S9(4) VALUE ZERO.   *AA200
   05               IWP20M        PICTURE S9(4) VALUE +0009.  *AA200
   05               5-CD00-LTH    PICTURE S9(4) VALUE +0166.  *AA200
   05               5-CD05-LTH    PICTURE S9(4) VALUE +0157.  *AA200
   05               5-CD10-LTH    PICTURE S9(4) VALUE +0139.  *AA200
   05               5-CD20-LTH    PICTURE S9(4) VALUE +0001.  *AA200
   05               5-FO00-LTH    PICTURE S9(4) VALUE +0057.  *AA200
   05               5-FO10-LTH    PICTURE S9(4) VALUE +0057.  *AA200
   05               5-ME00-LTH    PICTURE S9(4) VALUE +0082.  *AA200
   05               5-CA00-LTH    PICTURE S9(4) VALUE +0147.  *AA200
   05               5-CD05-LTHV   PICTURE S9(4) VALUE +0166.  *AA200
   05               5-CD10-LTHV   PICTURE S9(4) VALUE +0148.  *AA200
   05               5-CD20-LTHV   PICTURE S9(4) VALUE +0010.  *AA200
   05               5-FO10-LTHV   PICTURE S9(4) VALUE +0057.  *AA200
   05               LTH           PICTURE S9(4) VALUE ZERO.   *AA200
   05               5-0030-LENGTH PICTURE S9(4) VALUE +0892.  *AA200
01                  NUMERIC-VALIDATION-FIELDS.                *AA200
   05               ZONUM1.                                   *AA200
     10             C1            PICTURE X OCCURS 27.        *AA200
   05               ZONUM2.                                   *AA200
     10             C2            OCCURS 18.                  *AA200
       15           C29           PICTURE S9.                 *AA200
   05               ZONUM9        REDEFINES ZONUM2 PICTURE 9(18). *AA200
   05               NUMPIC.                                   *AA200
     10             SIGNE         PICTURE X.                  *AA200
     10             NBCHA         PICTURE 99.                 *AA200
     10             NBCHP         PICTURE 99.                 *AA200
   05               C9            PICTURE S9.                 *AA200
   05               C91           PICTURE X.                  *AA200
   05               TPOINT        PICTURE X.                  *AA200
   05               ZONUM3.                                   *AA200
     10             C3            PICTURE X OCCURS 18.        *AA200
   05               ZONUM4        REDEFINES ZONUM3 PICTURE 9(18). *AA200
   05               ZONUM5        PICTURE S99 VALUE -10.      *AA200
   05               ZONUM6        REDEFINES ZONUM5.           *AA200
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    10          FILLER      PICTURE X.                    *AA200
    10          C4          PICTURE X.                    *AA200
01              TABLE-OF-ATTRIBUTES.                      *AA250
  02            DE-ATT.                                   *AA250
    03          DE-ATT1     OCCURS 4.                     *AA250
       05       DE-AT       PICTURE X OCCURS 065.         *AA250
  02            DE-A        REDEFINES DE-ATT.             *AA250
    03          DE-ATT2     OCCURS 4.                     *AA250
      04        A-0030-BEGIN.                             *AA250
        05      A-0030-CHOIX  PICTURE X.                  *AA250
        05      A-0030-MATE   PICTURE X.                  *AA250
        05      A-0030-RELEA  PICTURE X.                  *AA250
        05      A-0030-RUE    PICTURE X.                  *AA250
        05      A-0030-VILLE  PICTURE X.                  *AA250
        05      A-0030-COPOS  PICTURE X.                  *AA250
        05      A-0030-REFCLI PICTURE X.                  *AA250
        05      A-0030-DATE   PICTURE X.                  *AA250
        05      A-0030-CORRES PICTURE X.                  *AA250
        05      A-0030-REMIS  PICTURE X.                  *AA250
      04        B-0030-LINE   OCCURS 9.                   *AA250
        05      FILLER        PICTURE X(0006).            *AA250
      04        A-0030-END.                               *AA250
        05      A-0030-EDIT   PICTURE X.                  *AA250
  02            A-0030-LINE   OCCURS 4.                   *AA250
    05          A-0030-CODMVT PICTURE X.                  *AA250
    05          A-0030-FOURNI PICTURE X.                  *AA250
    05          A-0030-QTMAC  PICTURE X.                  *AA250
    05          A-0030-QTMAL  PICTURE X.                  *AA250
    05          A-0030-QTMAR  PICTURE X.                  *AA250
    05          A-0030-INFOR  PICTURE X.                  *AA250
01              STOP-FIELDS.                              *AA300
  02            C-0030.                                   *AA300
    05          C-0030-COCARA PICTURE X.                  *AA300
    05          C-0030-NUCOM  PICTURE 9(5).               *AA300
01              FIRST-ON-SEGMENT.                         *AA301
  05            CD10-FST    PICTURE X.                    *AA301
01              WW10-QTMAR  PICTURE 99 VALUE ZERO.        *BB200
01              WP00.                                     *WP000
  02            WP10.                                     *WP010
    05          FILLER      PIC X(25) VALUE               *WP020
                            "23400BRISBANE          ".    *WP030
    05          FILLER      PIC X(25) VALUE               *WP040
                            "56400VICTORIA          ".    *WP050
    05          FILLER      PIC X(25) VALUE               *WP060
                            "76500ALICE SPRINGS     ".    *WP070
    05          FILLER      PIC X(25) VALUE               *WP080
                            "55300MELBOURNE         ".    *WP090
    05          FILLER      PIC X(25) VALUE               *WP100
                            "11000CANBERRA          ".    *WP110
    05          FILLER      PIC X(25) VALUE               *WP120
                            "34500PERTH             ".    *WP130
    05          FILLER      PIC X(25) VALUE               *WP140
                            "85270DARWIN            ".    *WP150
    05          FILLER      PIC X(25) VALUE               *WP160
                            "94000HOBART            ".    *WP170
    05          FILLER      PIC X(25) VALUE               *WP180
                            "89300SYDNEY            ".    *WP190
  02            WP20        REDEFINES WP10 OCCURS 9.      *WP300
    05          WP20-COPOS  PICTURE X(5).                 *WP320
    05          WP20-VILLE  PICTURE X(20).                *WP340
  02            WP30.                                     *WP400
    05          WP30-COPOS  PICTURE X(5).                 *WP410
  02            WP40.                                     *WP500
    05          WP40-VILLE  PICTURE X(20).                *WP510
    05          WP40-VILLEL PICTURE X(20).                *WP520
LINKAGE SECTION.                                          DO0030
COPY TDS-STORAGE.                                         *0Z010
COPY CONSTANT-STORAGE.                                    *0Z015
01              TRANSACTION-STORAGE.                      *0Z020
  02            K-S0030-PROGR PICTURE X(6).               *00000
  02            K-S0030-XTERM PICTURE X(12).              *00000
  02            CA00.                                     *00001
    10          CA00-CLECD.                               *00001
      15        CA00-NUCOM    PICTURE 9(5).               *00001
    10          CA00-CLECL1.                              *00001
      15        CA00-NUCLIE   PICTURE 9(8).               *00001
    10          CA00-ME00.                                *00001
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         15           CA00-CLEME.                                 *00001
              20      CA00-COPERS   PICTURE X(5).                 *00001
              20      CA00-NUMORD   PICTURE XX.                   *00001
            15        CA00-MESSA    PICTURE X(75).                *00001
       10             CA00-PREM     PICTURE X.                    *00001
       10             CA00-LANGU    PICTURE X.                    *00001
       10             CA00-RAISOC   PICTURE X(50).                *00001
     02               K-S0030-DOC   PICTURE X.                    *00002
     02               K-S0030-PROGE PICTURE X(8).                 *00002
     02               K-S0030-LIBRA PICTURE XXX.                  *00002
     02               K-S0030-PROHE PICTURE X(8).                 *00002
     02               K-S0030-ERCOD.                              *00002
       05             K-S0030-ERCOD9 PICTURE 999.                 *00002
     02               K-S0030-ERTYP PICTURE X.                    *00002
     02               K-S0030-LINUM PICTURE 999.                  *00002
     02               K-0030.                                     *00002
       03             K-A0030-DEBUT.                              *00002
         05           K-ACD05-CLECD PICTURE X(9).                 *00002
       03             K-R0030-LINE  OCCURS 2.                     *00002
         05           K-RCD10-CLECD PICTURE X(9).                 *00002
       03             K-Z0030-END.                                *00002
         05           K-ZME00-CLEME PICTURE X(7).                 *00002
     02               FILLER        PICTURE X(0666).              *00002
   COMMUNICATION SECTION.                                         *90010
   CD  7-CD01        INPUT                                        *90020
       SYMBOLIC QUEUE           7-CD01-CTRAN                      *90030
       MESSAGE DATE             7-CD01-XDATE                      *90040
       MESSAGE TIME             7-CD01-XTIME                      *90050
       SYMBOLIC SOURCE          7-CD01-XTERM                      *90060
       TEXT LENGTH              7-CD01-XLOMES                     *90070
       END KEY                  7-CD01-XFINME                     *90080
       STATUS KEY               7-CD01-XMSTA.                     *90090
   CD  7-CD02        OUTPUT                                       *90100
       DESTINATION COUNT        7-CD02-XNDEST                     *90110
       TEXT LENGTH              7-CD02-XLOMES                     *90120
       STATUS KEY               7-CD02-XMSTA                      *90130
       ERROR  KEY               7-CD02-XMERR                      *90140
       SYMBOLIC DESTINATION     7-CD02-XTERM.                     *90150
   PROCEDURE DIVISION USING TDS-STORAGE CONSTANT-STORAGE          *99999
       TRANSACTION-STORAGE.                                       *99999
   *        **********************************                    DO0030
   *        *                                *                    DO0030
   *        *  INITIALIZATIONS               *                    DO0030
   *        *                                *                    DO0030
   *        **********************************                    DO0030
    F01.                                                          DO0030
       EXIT.                                                      DO0030
    F0110.                                                        DO0030
       ACCEPT TIMCO FROM TIME.                                    DO0030
       ACCEPT DATOR FROM DATE.                                    DO0030
       MOVE ZERO TO CATX FT K50L.                                 DO0030
       MOVE "1" TO ICF OCF SCR-ER.                                DO0030
       MOVE ZERO TO VALIDATION-TABLE-FIELDS.                      DO0030
       MOVE ZERO TO 7-CD01-XMSTA 7-CD02-XMSTA.                    DO0030
       MOVE SPACE TO CATM OPER OPERD CAT-ER.                      DO0030
       MOVE SPACE TO TABLE-OF-ATTRIBUTES.                         DO0030
       MOVE ZERO TO CONFIGURATIONS.                               DO0030
       MOVE SYMBOLIC-QUEUE TO 7-CD01-CTRAN.                       DO0030
       IF     PROGR NOT  =  K-S0030-PROGR                         DO0030
          MOVE ZERO TO ICF.                                       DO0030
       IF     PRIOR-TPR  =  SPACE                                 DO0030
          MOVE ZERO TO ICF K-S0030-DOC                           DO0030
          RECEIVE 7-CD01 MESSAGE INTO 0030-MPRIOR NO DATA         DO0030
             MOVE "1" TO IK.                                      DO0030
       IF     PRIOR-TPR  =  SPACE                                 DO0030
          PERFORM F81ES THRU F81ES-FN                             DO0030
          MOVE 7-CD01-XTERM TO K-S0030-XTERM.                     DO0030
       MOVE SPACE TO O-0030.                                      DO0030
       IF    ICF  =  ZERO                                         DO0030
          PERFORM F8115 THRU F8115-FN.                            DO0030
       MOVE K-S0030-XTERM TO HE00-XTERM.                          DO0030
       IF     K-S0030-DOC  =  "2"                                 DO0030
          OR  K-S0030-DOC  =  "3"                                 DO0030
             MOVE "1" TO K-S0030-DOC                              DO0030
             GO TO F8Z05.                                         DO0030
       MOVE "X" TO DE-AT (4, 011).                                DO0030
       MOVE SPACE TO O-0030-ERMSG (01).                           DO0030
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        MOVE SPACE TO O-0030-ERMSG1 (01).                   DO0030
   F0110-FN.                                                DO0030
       EXIT.                                                DO0030
   F0160.                                                   DO0030
       IF      ICF  =  ZERO                                 DO0030
          MOVE "A" TO OPER                                  DO0030
          GO TO F3999-ITER-FT.                             DO0030
   F0160-FN.                                                DO0030
       EXIT.                                                DO0030
   F01-FN.                                                  DO0030
       EXIT.                                                DO0030
*          +-----------------------------------+           P000
* LEVEL 10   I INIT. NUMBER OF LOADED ITEMS     I           P000
*          +-----------------------------------+           P000
   F02CP.                                                   P000
       MOVE IWP20M TO IWP20L.                               P100
   F02CP-FN.                                                P000
       EXIT.                                                P000
*          ***********************************              DO0030
*          *                                 *              DO0030
*          *  RECEPTION                      *              DO0030
*          *                                 *              DO0030
*          ***********************************              DO0030
   F05.                                                     DO0030
       IF      ICF  =  ZERO                                 DO0030
          GO TO END-OF-RECEPTION.                          DO0030
   F0510.                                                   DO0030
       PERFORM F81RE THRU F81RE-FN.                         DO0030
       IF      ICF  =  ZERO                                 DO0030
          GO TO END-OF-RECEPTION.                          DO0030
       PERFORM F81ES THRU F81ES-FN.                         DO0030
       MOVE 7-CD01-XTERM TO K-S0030-XTERM.                  DO0030
       ADD 1 TO 7-CD01-XLOMES.                              DO0030
       MOVE 7-HT TO 0030-CA (7-CD01-XLOMES).                DO0030
       MOVE ZERO TO K01 K02.                                DO0030
   F0510-A.                                                 DO0030
       ADD 1 TO K01.                                        DO0030
       IF      K01  >  7-CD01-XLOMES                        DO0030
          GO TO F0510-C.                                   DO0030
   F0510-B.                                                 DO0030
       ADD 1 TO K02.                                        DO0030
       IF      K02  >  0030-XLOMES                          DO0030
          GO TO F0510-C.                                   DO0030
       IF      0030-CA (K01)  =  7-HT                       DO0030
          AND 0030-CP (K02) NOT  =  7-HT                    DO0030
             MOVE SPACE TO 0030-CP (K02)                   DO0030
             GO TO F0510-B.                                DO0030
       IF      0030-CA (K01)  =  7-HT                       DO0030
          GO TO F0510-A.                                   DO0030
       IF      0030-CP (K02)  =  7-HT                       DO0030
          MOVE ZERO TO ICF                                 DO0030
          GO TO END-OF-RECEPTION.                          DO0030
       MOVE 0030-CA (K01) TO 0030-CP (K02)                  DO0030
       GO TO F0510-A.                                       DO0030
   F0510-C.                                                 DO0030
       PERFORM F8155 THRU F8155-FN.                         DO0030
       MOVE "A" TO OPER                                     DO0030
       MOVE SPACE TO OPERD.                                 DO0030
       PERFORM F8150 THRU F8150-FN.                         DO0030
       IF      K-S0030-ERCOD  =  ZERO                       DO0030
          EXAMINE I-0030 REPLACING ALL "-" BY SPACE.       DO0030
   F0510-FN.                                                DO0030
       EXIT.                                                DO0030
   F0512.                                                   DO0030
       IF      K-S0030-ERCOD NOT  =  ZERO                   DO0030
          NEXT SENTENCE                                    DO0030
       ELSE                                                 DO0030
          GO TO F0512-FN.                                  DO0030
       MOVE "2" TO K-S0030-DOC                              DO0030
       MOVE PROGE TO K-S0030-PROGE                          DO0030
       MOVE LIBRA TO K-S0030-LIBRA.                         DO0030
       IF      K-S0030-ERCOD NOT  =  SPACE                  DO0030
          MOVE "3" TO K-S0030-DOC.                         DO0030
       MOVE K-S0030-XTERM TO HE00-XTERM                     DO0030
       PERFORM F80-HELP-R THRU F80-FN                       DO0030
       MOVE HE00-SCREEN TO O-0030                           DO0030
       PERFORM F8130 THRU F8130-FN                          DO0030
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          MOVE O-0030 TO HE00-SCREEN                              DO0030
          PERFORM F80-HELP-RW THRU F80-FN                        DO0030
          MOVE PRDOC TO 5-0030-PROGE K-S0030-PROHE               DO0030
          MOVE "O" TO OPER                                       DO0030
          GO TO F4040.                                           DO0030
      F0512-FN.                                                  DO0030
          EXIT.                                                  DO0030
      *       ************************************               DO0030
      *       *                                  *               DO0030
      *       *  VALIDATION OF OPERATION CODE    *               DO0030
      *       *                                  *               DO0030
      *       ************************************               DO0030
      F0520.                                                     DO0030
          IF      I-0030-CHOIX  =  "1"                           DO0030
              MOVE "DO0000  " TO 5-0030-PROGE                    DO0030
              MOVE "O" TO OPER                                   DO0030
              GO TO F40-A.                                       DO0030
          IF      I-0030-CHOIX  =  "2"                           DO0030
              MOVE "DO0010  " TO 5-0030-PROGE                    DO0030
              MOVE "O" TO OPER                                   DO0030
              GO TO F40-A.                                       DO0030
          IF      I-0030-CHOIX  =  "3"                           DO0030
              MOVE "DO0020  " TO 5-0030-PROGE                    DO0030
              MOVE "O" TO OPER                                   DO0030
              GO TO F40-A.                                       DO0030
          IF      I-0030-CHOIX  =  "4"                           DO0030
              MOVE "DO0040  " TO 5-0030-PROGE                    DO0030
              MOVE "O" TO OPER                                   DO0030
              GO TO F40-A.                                       DO0030
          IF      I-0030-CHOIX  =  "5"                           DO0030
              MOVE "DO0050  " TO 5-0030-PROGE                    DO0030
              MOVE "O" TO OPER                                   DO0030
              GO TO F40-A.                                       DO0030
          IF      I-0030-CHOIX  =  "0"                           DO0030
              MOVE "DO0070  " TO 5-0030-PROGE                    DO0030
              MOVE "O" TO OPER                                   DO0030
              GO TO F40-A.                                       DO0030
          IF      I-0030-CHOIX  =  "7"                           DO0030
              MOVE "M" TO OPER                                   DO0030
              GO TO F0520-900.                                   DO0030
          IF      I-0030-CHOIX  =  "8"                           DO0030
              MOVE "S" TO OPER                                   DO0030
              GO TO F0520-900.                                   DO0030
          MOVE "5" TO ER-0030-CHOIX                              DO0030
          MOVE "4" TO SCR-ER                                     DO0030
          GO TO F3999-ITER-FT.                                   DO0030
      F0520-900.                                                 DO0030
          IF      OPER NOT  =  "A"                               DO0030
          AND OPER NOT  =  "M"                                   DO0030
          AND OPER NOT  =  "O"                                   DO0030
              GO TO F3999-ITER-FT.                               DO0030
      F0520-FN.                                                  DO0030
          EXIT.                                                  DO0030
      F05-FN.                                                    DO0030
          EXIT.                                                  DO0030
      *           +-----------------------------------+         P000
      * LEVEL 10   I NO UPDATE ==> END OF RECEIVE     I         P000
      *           +-----------------------------------+         P000
      F08BB.                                                     P000
          IF      OPER NOT  =  "M"                               P000
              NEXT SENTENCE                                      P000
          ELSE                                                   P000
              GO TO F08BB-FN.                                    P000
          GO TO F3999-ITER-FT.                                   P100
      F08BB-FN.                                                  P000
          EXIT.                                                  P000
      *       ************************************               DO0030
      *       *                                  *               DO0030
      *       *  CATEGORY PROCESSING LOOP        *               DO0030
      *       *                                  *               DO0030
      *       ************************************               DO0030
      F10.                                                       DO0030
          EXIT.                                                  DO0030
      F1010.                                                     DO0030
          MOVE SPACE TO CATM.                                    DO0030
          IF      CATX  =  "R"                                   DO0030
              MOVE O-0030-LINE TO P-0030-LINE (ICATR)            DO0030
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              MOVE A-0030-LINE (1) TO B-0030-LINE (1, ICATR)      DO0030
              MOVE A-0030-LINE (2) TO B-0030-LINE (2, ICATR)      DO0030
              MOVE A-0030-LINE (4) TO B-0030-LINE (4, ICATR)      DO0030
              MOVE I-0030-LINE TO J-0030-LINE (ICATR)             DO0030
              MOVE ER-0030-LINE TO PS-30-LINE (ICATR).            DO0030
        IF     CAT-ER  =  "E"                                     DO0030
              MOVE "4" TO SCR-ER                                  DO0030
              GO TO F3999-ITER-FT.                                DO0030
        MOVE SPACE TO CAT-ER.                                     DO0030
        IF     CATX  =  "0"                                       DO0030
              MOVE " " TO CATX                                    DO0030
              GO TO F1010-FN.                                     DO0030
        IF     CATX  =  " "                                       DO0030
              MOVE "R" TO CATX                                    DO0030
              MOVE ZERO TO ICATR.                                 DO0030
        IF     CATX  =  "R"                                       DO0030
              AND ICATR  <  IRR                                   DO0030
                ADD 1 TO ICATR                                    DO0030
                MOVE PS-30-LINE (ICATR) TO ER-0030-LINE           DO0030
                MOVE B-0030-LINE (4, ICATR) TO A-0030-LINE (4)    DO0030
                MOVE P-0030-LINE (ICATR) TO O-0030-LINE           DO0030
                MOVE J-0030-LINE (ICATR) TO I-0030-LINE           DO0030
                GO TO F1010-FN.                                   DO0030
        IF     CATX  =  "R"                                       DO0030
              MOVE "Z" TO CATX                                    DO0030
              GO TO F1010-FN.                                     DO0030
    F1010-A.                                                      DO0030
        GO TO F3999-ITER-FT.                                      DO0030
    F1010-FN.                                                     DO0030
        EXIT.                                                     DO0030
    F10-FN.                                                       DO0030
        EXIT.                                                     DO0030
 *     ***********************************                        DO0030
 *         *                              *                       DO0030
 *         *  VALIDATION OF TRANSACTION CODE   *                  DO0030
 *         *                              *                       DO0030
 *     ***********************************                        DO0030
    F15.                                                          DO0030
        EXIT.                                                     DO0030
    F15R.                                                         DO0030
        IF     CATX NOT  =  "R"                                   DO0030
              GO TO F15R-FN.                                      DO0030
        IF     OPER NOT  =  "M"                                   DO0030
              MOVE SPACE TO CATM                                  DO0030
              GO TO F15R-FN.                                      DO0030
        IF     I-0030-CODMVT  =  SPACE                            DO0030
              GO TO F15-FN.                                       DO0030
        IF     I-0030-CODMVT  =  "C"                              DO0030
              MOVE "C" TO CATM.                                   DO0030
        IF     I-0030-CODMVT  =  "M"                              DO0030
              MOVE "M" TO CATM.                                   DO0030
        IF     I-0030-CODMVT  =  "S"                              DO0030
              MOVE "A" TO CATM.                                   DO0030
        IF     CATM  =  SPACE                                     DO0030
              MOVE 5 TO ER-0030-CODMVT                            DO0030
              MOVE "E" TO CAT-ER                                  DO0030
              GO TO F3999-ITER-FI.                                DO0030
    F15R-FN.                                                      DO0030
        EXIT.                                                     DO0030
    F15Z.                                                         DO0030
        IF     CATX NOT  =  "Z"                                   DO0030
              GO TO F15Z-FN.                                      DO0030
        IF     OPER NOT  =  "M"                                   DO0030
              MOVE SPACE TO CATM                                  DO0030
              GO TO F15Z-FN.                                      DO0030
        IF     I-0030-EDIT  =  SPACE                              DO0030
              GO TO F15-FN.                                       DO0030
        IF     I-0030-EDIT  =  "O"                                DO0030
              MOVE "X" TO CATM.                                   DO0030
        IF     CATM  =  SPACE                                     DO0030
              MOVE 5 TO ER-0030-EDIT                              DO0030
              MOVE "E" TO CAT-ER                                  DO0030
              GO TO F3999-ITER-FI.                                DO0030
    F15Z-FN.                                                      DO0030
        EXIT.                                                     DO0030
 *          +-----------------------------------+                 P000
 * LEVEL 10    I INITIALIZATION CATM (HEADING)     I              P000
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*              +----------------------------------+              P000
  F15AA.                                                         P000
      IF     CATX  =  SPACE                                      P000
          AND OPER  =  "M"                                       P100
              NEXT SENTENCE                                      P100
      ELSE                                                       P100
              GO TO F15AA-FN.                                    P100
      MOVE "M" TO CATM.                                          P100
  F15AA-FN.                                                      P000
      EXIT.                                                      P000
  F15-FN.                                                        P000
      EXIT.                                                      P000
*          ***********************************                  DO0030
*          *                                 *                  DO0030
*          *  DATA ELEMENT VALIDATION        *                  DO0030
*          *                                 *                  DO0030
*          ***********************************                  DO0030
  F20.                                                           DO0030
      EXIT.                                                      DO0030
  F20A.                                                          DO0030
      IF     CATX NOT  =  " "                                    DO0030
          GO TO F20A-FN.                                         DO0030
  F20A2.                                                         DO0030
      IF     I-0030-CHOIX NOT  =  SPACE                          DO0030
          MOVE "1" TO ER-0030-CHOIX.                             DO0030
  F20A2-FN.                                                      DO0030
      EXIT.                                                      DO0030
  F20B1.                                                         DO0030
      IF     I-0030-MATE NOT  =  SPACE                           DO0030
          MOVE "1" TO ER-0030-MATE.                              DO0030
      IF     ER-0030-MATE NOT  =  1                              DO0030
          GO TO F20B1-FN.                                        DO0030
      IF     I-0030-MATE  =  "I1"                                DO0030
          OR  I-0030-MATE  =  "I2"                               DO0030
          OR  I-0030-MATE  =  "I3"                               DO0030
          OR  I-0030-MATE  =  "I4"                               DO0030
          OR  I-0030-MATE  =  "I5"                               DO0030
          OR  I-0030-MATE  =  "B7"                               DO0030
          OR  I-0030-MATE  =  "B8"                               DO0030
          OR  I-0030-MATE  =  "UN"                               DO0030
          OR  I-0030-MATE  =  "IC"                               DO0030
          OR  I-0030-MATE  =  "IBM.V.OS"                         DO0030
          OR  I-0030-MATE  =  "IBM.V.DO"                         DO0030
          OR  I-0030-MATE  =  "IBM.D.OS"                         DO0030
          OR  I-0030-MATE  =  "IBM.D.DO"                         DO0030
          OR  I-0030-MATE  =  "IBM.IMS "                         DO0030
          OR  I-0030-MATE  =  "DPS7    "                         DO0030
          OR  I-0030-MATE  =  "DPS8    "                         DO0030
          OR  I-0030-MATE  =  "UNISYS  "                         DO0030
          OR  I-0030-MATE  =  "ICL     "                         DO0030
          OR  I-0030-MATE  =  "SPECIAL"                          DO0030
              NEXT SENTENCE                                      DO0030
      ELSE                                                       DO0030
              MOVE "5" TO ER-0030-MATE.                          DO0030
      IF     ER-0030-MATE  >  "1"                                DO0030
          MOVE "E" TO CAT-ER                                     DO0030
          GO TO F20B1-FN.                                        DO0030
  F20B1-FN.                                                      DO0030
      EXIT.                                                      DO0030
  F20B2.                                                         DO0030
      IF     I-0030-RELEA NOT  =  SPACE                          DO0030
          MOVE "1" TO ER-0030-RELEA                              DO0030
      ELSE                                                       DO0030
          MOVE "2" TO ER-0030-RELEA                              DO0030
          MOVE "E" TO CAT-ER                                     DO0030
          GO TO F20B2-FN.                                        DO0030
      IF     I-0030-RELEA  =  "7.2"                              DO0030
          OR  I-0030-RELEA  =  "7.3"                             DO0030
          OR  I-0030-RELEA  =  "8.0"                             DO0030
              NEXT SENTENCE                                      DO0030
      ELSE                                                       DO0030
              MOVE "5" TO ER-0030-RELEA.                         DO0030
      IF     ER-0030-RELEA  >  "1"                               DO0030
          MOVE "E" TO CAT-ER                                     DO0030
          GO TO F20B2-FN.                                        DO0030
  F20B2-FN.                                                      DO0030
      EXIT.                                                      DO0030
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    F20B5.                                                          DO0030
        IF     I-0030-RUE NOT  =  SPACE                             DO0030
           MOVE "1" TO ER-0030-RUE.                                 DO0030
    F20B5-FN.                                                       DO0030
        EXIT.                                                       DO0030
    F20B6.                                                          DO0030
        IF     I-0030-VILLE NOT  =  SPACE                           DO0030
           MOVE "1" TO ER-0030-VILLE.                               DO0030
    F20B6-FN.                                                       DO0030
        EXIT.                                                       DO0030
    F20B7.                                                          DO0030
        IF     I-0030-COPOS NOT  =  SPACE                           DO0030
           MOVE "1" TO ER-0030-COPOS                                DO0030
        ELSE                                                        DO0030
           MOVE "2" TO ER-0030-COPOS                                DO0030
           MOVE "E" TO CAT-ER                                       DO0030
           GO TO F20B7-FN.                                          DO0030
        MOVE I-0030-COPOS TO WP30-COPOS                             DO0030
        MOVE ER-0030-COPOS TO DEL-ER                                DO0030
        PERFORM F93CP THRU F93CP-FN                                 DO0030
        MOVE WP30-COPOS TO I-0030-COPOS                             DO0030
        MOVE DEL-ER TO ER-0030-COPOS.                               DO0030
        IF     ER-0030-COPOS  >  "1"                                DO0030
           MOVE "E" TO CAT-ER                                       DO0030
           GO TO F20B7-FN.                                          DO0030
    F20B7-FN.                                                       DO0030
        EXIT.                                                       DO0030
    F20B8.                                                          DO0030
        IF     I-0030-REFCLI NOT  =  SPACE                          DO0030
           MOVE "1" TO ER-0030-REFCLI.                              DO0030
    F20B8-FN.                                                       DO0030
        EXIT.                                                       DO0030
    F20B9.                                                          DO0030
        IF     I-0030-DATE NOT  =  SPACE                            DO0030
           MOVE "1" TO ER-0030-DATE                                 DO0030
        ELSE                                                        DO0030
           MOVE "2" TO ER-0030-DATE                                 DO0030
           MOVE "E" TO CAT-ER                                       DO0030
           GO TO F20B9-FN.                                          DO0030
        MOVE I-0030-DATE TO DAT7                                    DO0030
        PERFORM F8120-D THRU F8120-FN                               DO0030
        MOVE DEL-ER TO ER-0030-DATE                                 DO0030
        IF     DEL-ER  >  "1"                                       DO0030
           MOVE "E" TO CAT-ER                                       DO0030
           GO TO F20B9-FN.                                          DO0030
    F20B9-FN.                                                       DO0030
        EXIT.                                                       DO0030
    F20C0.                                                          DO0030
        IF     I-0030-CORRES NOT  =  SPACE                          DO0030
           MOVE "1" TO ER-0030-CORRES.                              DO0030
        IF     ER-0030-CORRES NOT  =  1                             DO0030
           GO TO F20C0-FN.                                          DO0030
    F20C0-FN.                                                       DO0030
        EXIT.                                                       DO0030
    F20C1.                                                          DO0030
        IF     E-0030-REMIS NOT  =  SPACE                           DO0030
           MOVE "1" TO ER-0030-REMIS.                               DO0030
        MOVE E-0030-REMIS TO ZONUM1                                 DO0030
        MOVE 9-0030-REMIS TO NUMPIC                                 DO0030
        MOVE ER-0030-REMIS TO DEL-ER                                DO0030
        PERFORM F8110 THRU F8110-FN                                 DO0030
        MOVE DEL-ER TO ER-0030-REMIS                                DO0030
        IF     DEL-ER  >  1                                         DO0030
           MOVE "E" TO CAT-ER                                       DO0030
           GO TO F20C1-FN.                                          DO0030
        MOVE ZONUM2 TO E-0030-REMIS.                                DO0030
    F20C1-FN.                                                       DO0030
        EXIT.                                                       DO0030
    F20A-FN.                                                        DO0030
        EXIT.                                                       DO0030
    F20R.                                                           DO0030
        IF     CATX NOT  =  "R"                                     DO0030
           GO TO F20R-FN.                                           DO0030
    F20C3.                                                          DO0030
        IF     I-0030-CODMVT NOT  =  SPACE                          DO0030
           MOVE "1" TO ER-0030-CODMVT.                              DO0030
    F20C3-FN.                                                       DO0030
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        EXIT.                                                   DO0030
 *          +----------------------------------+               P000
 * LEVEL 10    I ITEM NOT AVAILABLE            I               P000
 *          +----------------------------------+               P000
   F20BB.                                                      P000
        IF      I-0030-FOURNI  =  "CLA"                        P100
            AND CATM NOT  =  SPACE                             P110
                MOVE "A" TO ER-0030-FOURNI                     P100
                MOVE "E" TO CAT-ER                             P100
                GO TO F20C4-FN.                                P110
   F20BB-FN.                                                   P000
        EXIT.                                                  P000
   F20C4.                                                      DO0030
        IF      CATM  =  SPACE                                 DO0030
           GO TO F20C4-FN.                                     DO0030
        IF      I-0030-FOURNI NOT  =  SPACE                    DO0030
           MOVE "1" TO ER-0030-FOURNI                          DO0030
        ELSE                                                   DO0030
           MOVE "2" TO ER-0030-FOURNI                          DO0030
           MOVE "E" TO CAT-ER                                  DO0030
           GO TO F20C4-FN.                                     DO0030
        IF      I-0030-FOURNI  =  "DIC"                        DO0030
           OR   I-0030-FOURNI  =  "MER"                        DO0030
           OR   I-0030-FOURNI  =  "TAB"                        DO0030
           OR   I-0030-FOURNI  =  "DBD"                        DO0030
           OR   I-0030-FOURNI  =  "DSO"                        DO0030
           OR   I-0030-FOURNI  =  "LGS"                        DO0030
           OR   I-0030-FOURNI  =  "LGB"                        DO0030
           OR   I-0030-FOURNI  =  "DLG"                        DO0030
               NEXT SENTENCE                                   DO0030
        ELSE                                                   DO0030
               MOVE "5" TO ER-0030-FOURNI.                     DO0030
        IF      ER-0030-FOURNI  >  "1"                         DO0030
           MOVE "E" TO CAT-ER                                  DO0030
           GO TO F20C4-FN.                                     DO0030
   F20C4-FN.                                                   DO0030
        EXIT.                                                  DO0030
   F20C5.                                                      DO0030
        IF      CATM  =  "A"                                   DO0030
           OR   CATM  =  SPACE                                 DO0030
               GO TO F20C5-FN.                                 DO0030
        IF      E-0030-QTMAC NOT  =  SPACE                     DO0030
           MOVE "1" TO ER-0030-QTMAC                           DO0030
        ELSE                                                   DO0030
           MOVE "2" TO ER-0030-QTMAC                           DO0030
           MOVE "E" TO CAT-ER                                  DO0030
           GO TO F20C5-FN.                                     DO0030
        MOVE E-0030-QTMAC TO ZONUM1                            DO0030
        MOVE 9-0030-QTMAC TO NUMPIC                            DO0030
        MOVE ER-0030-QTMAC TO DEL-ER                           DO0030
        PERFORM F8110 THRU F8110-FN                            DO0030
        MOVE DEL-ER TO ER-0030-QTMAC                           DO0030
        IF      DEL-ER  >  1                                   DO0030
           MOVE "E" TO CAT-ER                                  DO0030
           GO TO F20C5-FN.                                     DO0030
        MOVE ZONUM2 TO E-0030-QTMAC.                           DO0030
        IF      I-0030-QTMAC NOT  <  01                        DO0030
           AND I-0030-QTMAC NOT  >  50                         DO0030
               NEXT SENTENCE                                   DO0030
        ELSE                                                   DO0030
               MOVE "5" TO ER-0030-QTMAC.                      DO0030
        IF      ER-0030-QTMAC  >  "1"                          DO0030
           MOVE "E" TO CAT-ER                                  DO0030
           GO TO F20C5-FN.                                     DO0030
   F20C5-FN.                                                   DO0030
        EXIT.                                                  DO0030
   F20C6.                                                      DO0030
        IF      E-0030-QTMAL NOT  =  SPACE                     DO0030
               MOVE "1" TO ER-0030-QTMAL.                      DO0030
        MOVE E-0030-QTMAL TO ZONUM1                            DO0030
        MOVE 9-0030-QTMAL TO NUMPIC                            DO0030
        MOVE ER-0030-QTMAL TO DEL-ER                           DO0030
        PERFORM F8110 THRU F8110-FN                            DO0030
        MOVE DEL-ER TO ER-0030-QTMAL                           DO0030
        IF      DEL-ER  >  1                                   DO0030
           MOVE "E" TO CAT-ER                                  DO0030
           GO TO F20C6-FN.                                     DO0030
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        MOVE ZONUM2 TO E-0030-QTMAL.                          DO0030
    F20C6-FN.                                                 DO0030
        EXIT.                                                 DO0030
    F20C7.                                                    DO0030
        IF      E-0030-QTMAR NOT  =  SPACE                    DO0030
            MOVE "1" TO ER-0030-QTMAR.                        DO0030
        MOVE E-0030-QTMAR TO ZONUM1                           DO0030
        MOVE 9-0030-QTMAR TO NUMPIC                           DO0030
        MOVE ER-0030-QTMAR TO DEL-ER                          DO0030
        PERFORM F8110 THRU F8110-FN                           DO0030
        MOVE DEL-ER TO ER-0030-QTMAR                          DO0030
        IF      DEL-ER  >  1                                  DO0030
            MOVE "E" TO CAT-ER                                DO0030
            GO TO F20C7-FN.                                   DO0030
        MOVE ZONUM2 TO E-0030-QTMAR.                          DO0030
    F20C7-FN.                                                 DO0030
        EXIT.                                                 DO0030
    F20C8.                                                    DO0030
        IF      CATM  =  "A"                                  DO0030
            OR  CATM  =  SPACE                                DO0030
                GO TO F20C8-FN.                               DO0030
        IF      I-0030-INFOR NOT  =  SPACE                    DO0030
            MOVE "1" TO ER-0030-INFOR.                        DO0030
        IF      ER-0030-INFOR NOT  =  1                       DO0030
            GO TO F20C8-FN.                                   DO0030
    F20C8-FN.                                                 DO0030
        EXIT.                                                 DO0030
    F20R-FN.                                                  DO0030
        EXIT.                                                 DO0030
    F20Z.                                                     DO0030
        IF      CATX NOT  =  "Z"                              DO0030
            GO TO F20Z-FN.                                    DO0030
    F20D0.                                                    DO0030
        IF      I-0030-EDIT NOT  =  SPACE                     DO0030
            MOVE "1" TO ER-0030-EDIT.                         DO0030
    F20D0-FN.                                                 DO0030
        EXIT.                                                 DO0030
    F20Z-FN.                                                  DO0030
        EXIT.                                                 DO0030
    F20-FN.                                                   DO0030
        EXIT.                                                 DO0030
    *       ***********************************               DO0030
    *       *                                 *               DO0030
    *       *  SEGMENT ACCESS FOR VALIDATION  *               DO0030
    *       *                                 *               DO0030
    *       ***********************************               DO0030
    F25.                                                      DO0030
        IF      CAT-ER NOT  =  SPACE                          DO0030
            GO TO F25-FN.                                     DO0030
    F25A.                                                     DO0030
        IF      CATX NOT  =  " "                              DO0030
            GO TO F25A-FN.                                    DO0030
    F2501.                                                    DO0030
        MOVE "0" TO CD05-CF.                                  DO0030
        IF      CATM  =  SPACE                                DO0030
            GO TO F2501-FN.                                   DO0030
        MOVE SPACES TO CD00-CLECD                             DO0030
        MOVE "B" TO CD00-COCARA                               DO0030
        MOVE CA00-NUCOM TO CD00-NUCOM                         DO0030
        PERFORM F80-CD05-RU THRU F80-FN.                      DO0030
        IF      IK  =  "0"                                    DO0030
            MOVE "1" TO CD05-CF.                              DO0030
        IF      CATM NOT  =  "C"                              DO0030
            AND IK  =  "1"                                    DO0030
                MOVE "F019" TO XERCD                          DO0030
                PERFORM F81UT                                 DO0030
                GO TO F2501-FN.                               DO0030
    F2501-FN.                                                 DO0030
        EXIT.                                                 DO0030
    F25A-FN.                                                  DO0030
        EXIT.                                                 DO0030
    F25R.                                                     DO0030
        IF      CATX NOT  =  "R"                              DO0030
            GO TO F25R-FN.                                    DO0030
    F2502.                                                    DO0030
        MOVE "0" TO CD10-CF.                                  DO0030
        IF      CATM  =  SPACE                                DO0030
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            GO TO F2502-FN.                                 DO0030
        MOVE "C" TO CD00-CLECD                              DO0030
        MOVE CA00-NUCOM TO CD00-NUCOM                       DO0030
        MOVE I-0030-FOURNI TO CD00-FOURNI                   DO0030
        PERFORM F80-CD10-RU THRU F80-FN.                    DO0030
        IF      IK  =  "0"                                  DO0030
            MOVE "1" TO CD10-CF.                            DO0030
        IF      CATM  =  "X"                                DO0030
            AND IK  =  "1"                                  DO0030
                MOVE "C" TO CATM.                           DO0030
        IF      CATM  =  "X"                                DO0030
            AND IK  =  "0"                                  DO0030
                MOVE "M" TO CATM.                           DO0030
        IF      CATM  =  "C"                                DO0030
            AND IK  =  "0"                                  DO0030
                MOVE "F028" TO XERCD                        DO0030
                PERFORM F81UT                               DO0030
                GO TO F2502-FN.                             DO0030
        IF      CATM NOT  =  "C"                            DO0030
            AND IK  =  "1"                                  DO0030
                MOVE "F029" TO XERCD                        DO0030
                PERFORM F81UT                               DO0030
                GO TO F2502-FN.                             DO0030
 *              +--------------------------------+          P000
 * LEVEL 12   I ACCESS TO FO10                  I          P000
 *              +--------------------------------+          P000
 F25BB.                                                     P000
     MOVE "1" TO CD10-CF.                                   P100
 F25BB-FN.                                                  P000
     EXIT.                                                  P000
 F2502-FN.                                                  P000
     EXIT.                                                  P000
 F2503.                                                     DO0030
     MOVE "0" TO FO10-CF.                                   DO0030
     IF      CD10-CF NOT  =  "1"                            DO0030
        GO TO F2503-FN.                                     DO0030
     IF      CATM  =  SPACE                                 DO0030
        GO TO F2503-FN.                                     DO0030
     MOVE I-0030-FOURNI TO FO00-CLEFO                       DO0030
     MOVE CA00-LANGU TO FO00-LANGU                          DO0030
     MOVE I-0030-RELEA TO FO00-RELEA                        DO0030
     MOVE I-0030-MATE TO FO00-MATE                          DO0030
     PERFORM F80-FO10-RU THRU F80-FN.                       DO0030
     IF      IK  =  "0"                                     DO0030
        MOVE "1" TO FO10-CF.                                DO0030
     IF      IK  =  "1"                                     DO0030
        MOVE "F039" TO XERCD                                DO0030
        PERFORM F81UT                                       DO0030
        GO TO F2503-FN.                                     DO0030
 F2503-FN.                                                  DO0030
     EXIT.                                                  DO0030
 F25R-FN.                                                   DO0030
     EXIT.                                                  DO0030
 F25Z.                                                      DO0030
     IF      CATX NOT  =  "Z"                               DO0030
        GO TO F25Z-FN.                                      DO0030
 F2505.                                                     DO0030
     MOVE "0" TO CD20-CF.                                   DO0030
     IF      CATM  =  SPACE                                 DO0030
        GO TO F2505-FN.                                     DO0030
     MOVE SPACES TO CD00-CLECD                              DO0030
     MOVE "E" TO CD00-COCARA                                DO0030
     MOVE CA00-NUCOM TO CD00-NUCOM                          DO0030
     PERFORM F80-CD20-RU THRU F80-FN.                       DO0030
     IF      IK  =  "0"                                     DO0030
        MOVE "1" TO CD20-CF.                                DO0030
     IF      CATM  =  "X"                                   DO0030
        AND IK  =  "1"                                      DO0030
            MOVE "C" TO CATM.                               DO0030
     IF      CATM  =  "X"                                   DO0030
        AND IK  =  "0"                                      DO0030
            MOVE "M" TO CATM.                               DO0030
     IF      CATM  =  "C"                                   DO0030
        AND IK  =  "0"                                      DO0030
            MOVE "F058" TO XERCD                            DO0030
            PERFORM F81UT                                   DO0030
            GO TO F2505-FN.                                 DO0030
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        IF     CATM  NOT  =  "C"                            DO0030
           AND IK  =  "1"                                   DO0030
               MOVE "F059" TO XERCD                         DO0030
               PERFORM F81UT                                DO0030
               GO TO F2505-FN.                              DO0030
    F2505-FN.                                               DO0030
       EXIT.                                                DO0030
    F25Z-FN.                                                DO0030
       EXIT.                                                DO0030
    F2599.                                                  DO0030
        IF     CAT-ER  =  SPACE                             DO0030
           GO TO F2599-FN.                                  DO0030
        IF     CD05-CF  =  "1"                              DO0030
           PERFORM F80-CD05-UN THRU F80-FN.                 DO0030
        IF     CD10-CF  =  "1"                              DO0030
           PERFORM F80-CD10-UN THRU F80-FN.                 DO0030
        IF     FO10-CF  =  "1"                              DO0030
           PERFORM F80-FO10-UN THRU F80-FN.                 DO0030
        IF     CD20-CF  =  "1"                              DO0030
           PERFORM F80-CD20-UN THRU F80-FN.                 DO0030
        IF     CATX  =  " "                                 DO0030
           AND DE-AT (4, 011)  =  "X"                       DO0030
               MOVE " " TO DE-AT (4, 011).                  DO0030
        IF     CATX  =  " "                                 DO0030
           MOVE "X" TO A-0030-CHOIX (4).                    DO0030
        IF     CATX  =  "R"                                 DO0030
           AND DE-AT (4, 011)  =  "X"                       DO0030
               MOVE " " TO DE-AT (4, 011).                  DO0030
        IF     CATX  =  "R"                                 DO0030
           MOVE "X" TO A-0030-CODMVT (4).                   DO0030
        IF     CATX  =  "Z"                                 DO0030
           AND DE-AT (4, 011)  =  "X"                       DO0030
               MOVE " " TO DE-AT (4, 011).                  DO0030
        IF     CATX  =  "Z"                                 DO0030
           MOVE "X" TO A-0030-EDIT (4).                     DO0030
    F2599-FN.                                               DO0030
       EXIT.                                                DO0030
    F25-FN.                                                 DO0030
       EXIT.                                                DO0030
 *         +---------------------------------+              P000
 * LEVEL 10   I STOCK UPD.: ORDER DELETION/UPD   I          P000
 *         +---------------------------------+              P000
    F28BH.                                                  P000
        IF     (CATM  =  "A"                                P000
            OR  "M")                                        P000
           AND CATX  =  "R"                                 P100
           AND CAT-ER  =  SPACES                            P120
               NEXT SENTENCE                                P120
        ELSE                                                P120
               GO TO F28BH-FN.                              P120
        ADD CD10-QTMAL TO FO10-QTMAS.                       P100
    F28BH-FN.                                               P000
       EXIT.                                                P000
 *         **********************************                DO0030
 *         *                              *                 DO0030
 *         *  DATA ELEMENT TRANSFER       *                 DO0030
 *         *                              *                 DO0030
 *         **********************************                DO0030
    F30.                                                    DO0030
        IF     CAT-ER NOT  =  SPACE                         DO0030
           GO TO F30-FN.                                    DO0030
    F30A.                                                   DO0030
        IF     CATX NOT  =  " "                             DO0030
           GO TO F30A-FN.                                   DO0030
        MOVE I-0030-RELEA TO CD05-RELEA.                    DO0030
        MOVE I-0030-COPOS TO CD05-COPOS.                    DO0030
        MOVE I-0030-REFCLI TO CD05-REFCLI.                  DO0030
        MOVE I-0030-DATE TO CD05-DATE.                      DO0030
        MOVE I-0030-REMIS TO CD05-REMIS.                    DO0030
        IF     ER-0030-MATE  =  "1"                         DO0030
           MOVE I-0030-MATE TO CD05-MATE.                   DO0030
        IF     ER-0030-CORRES  =  "1"                       DO0030
           MOVE I-0030-CORRES TO CD05-CORRES.               DO0030
    F30A-FN.                                                DO0030
       EXIT.                                                DO0030
    F30R.                                                   DO0030
        IF     CATX NOT  =  "R"                             DO0030
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            GO TO F30R-FN.                                       DO0030
      IF     ER-0030-INFOR  =  "1"                               DO0030
          MOVE I-0030-INFOR TO CD10-INFOR.                       DO0030
      IF     CATM NOT  =  SPACE                                  DO0030
          MOVE I-0030-FOURNI TO CD00-FOURNI.                     DO0030
      IF     CATM NOT  =  SPACE                                  DO0030
      AND CATM NOT  =  "A"                                       DO0030
          MOVE I-0030-QTMAC TO CD10-QTMAC                        DO0030
          ADD I-0030-QTMAC TO FO10-QTMAM.                        DO0030
  *         +--------------------------------+                   P000
  * LEVEL 10    I QUANTITY PROCESSING       I                    P000
  *         +--------------------------------+                   P000
   F30BD.                                                        P000
  *         +--------------------------------+                   P000
  * LEVEL 12    I CALC. DELIV. QUANT.   STOCK UPD.  I            P000
  *         +--------------------------------+                   P000
   F30BF.                                                        P000
      IF     CATM  =  "C"                                        P000
         OR  "M"                                                 P000
             NEXT SENTENCE                                       P000
      ELSE                                                       P000
             GO TO F30BF-FN.                                     P000
      IF     FO10-QTMAS NOT  <  I-0030-QTMAC                     P100
          MOVE I-0030-QTMAC TO CD10-QTMAL                        P100
      ELSE                                                       P120
          MOVE FO10-QTMAS TO CD10-QTMAL.                         P120
      SUBTRACT CD10-QTMAL FROM FO10-QTMAS                        P130
      MOVE CD10-QTMAL TO O-0030-QTMAL.                           P140
   F30BF-FN.                                                     P000
      EXIT.                                                      P000
   F30BD-FN.                                                     P000
      EXIT.                                                      P000
   F30R-FN.                                                      DO0030
      EXIT.                                                      DO0030
   F30Z.                                                         DO0030
      IF     CATX NOT  =  "Z"                                    DO0030
          GO TO F30Z-FN.                                         DO0030
      MOVE I-0030-EDIT TO CD20-EDIT.                             DO0030
   F30Z-FN.                                                      DO0030
      EXIT.                                                      DO0030
   F30-FN.                                                       DO0030
      EXIT.                                                      DO0030
  *        *************************************                 DO0030
  *        *                                   *                 DO0030
  *        *  SEGMENT ACCESS FOR UPDATE        *                 DO0030
  *        *                                   *                 DO0030
  *        *************************************                 DO0030
   F35.                                                          DO0030
      IF     CAT-ER NOT  =  SPACE                                DO0030
         OR  CATM  =  SPACE                                      DO0030
             GO TO F35-FN.                                       DO0030
   F35A.                                                         DO0030
      IF     CATX NOT  =  " "                                    DO0030
          GO TO F35A-FN.                                         DO0030
   F3501.                                                        DO0030
      IF     CATM NOT  =  "C"                                    DO0030
      AND CATM NOT  =  "A"                                       DO0030
          PERFORM F80-CD05-RW THRU F80-FN.                       DO0030
   F3501-FN.                                                     DO0030
      EXIT.                                                      DO0030
   F35A-FN.                                                      DO0030
      EXIT.                                                      DO0030
   F35R.                                                         DO0030
      IF     CATX NOT  =  "R"                                    DO0030
          GO TO F35R-FN.                                         DO0030
   F3502.                                                        DO0030
      IF     CATM  =  "C"                                        DO0030
          PERFORM F80-CD10-W THRU F80-FN.                        DO0030
      IF     CATM  =  "A"                                        DO0030
          PERFORM F80-CD10-D THRU F80-FN.                        DO0030
      IF     CATM NOT  =  "C"                                    DO0030
      AND CATM NOT  =  "A"                                       DO0030
          PERFORM F80-CD10-RW THRU F80-FN.                       DO0030
   F3502-FN.                                                     DO0030
      EXIT.                                                      DO0030
   F3503.                                                        DO0030
      IF     FO10-CF  =  "1"                                     DO0030
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           PERFORM F80-FO10-RW THRU F80-FN.                 DO0030
     F3503-FN.                                              DO0030
         EXIT.                                              DO0030
     F35R-C3.                                               DO0030
         MOVE SPACE TO O-0030-CODMVT.                       DO0030
     F35R-FN.                                               DO0030
         EXIT.                                              DO0030
     F35Z.                                                  DO0030
         IF    CATX NOT  =  "Z"                             DO0030
           GO TO F35Z-FN.                                   DO0030
     F3505.                                                 DO0030
         IF    CATM  =  "C"                                 DO0030
           PERFORM F80-CD20-W THRU F80-FN.                  DO0030
         IF    CATM NOT  =  "C"                             DO0030
           AND CATM NOT  =  "A"                             DO0030
               PERFORM F80-CD20-RW THRU F80-FN.             DO0030
     F3505-FN.                                              DO0030
         EXIT.                                              DO0030
     F35Z-D0.                                               DO0030
         MOVE SPACE TO O-0030-EDIT.                         DO0030
     F35Z-FN.                                               DO0030
         EXIT.                                              DO0030
     F35-FN.                                                DO0030
         EXIT.                                              DO0030
     F3999-ITER-FI.                                         DO0030
         GO TO F10.                                         DO0030
     F3999-ITER-FT.                                         DO0030
         EXIT.                                              DO0030
     F3999-FN.                                              DO0030
         EXIT.                                              DO0030
     F40.                                                   DO0030
         IF    SCR-ER  >  "1"                               DO0030
           MOVE "A" TO OPER                                 DO0030
           GO TO F40-FN.                                    DO0030
     F40-A.                                                 DO0030
         IF    OPERD NOT  =  SPACE                          DO0030
           MOVE OPERD TO OPER.                              DO0030
*         ***********************************               DO0030
*         *                                 *               DO0030
*         *  SET-UP KEYS FOR NEW DISPLAY    *               DO0030
*         *                                 *               DO0030
*         ***********************************               DO0030
     F4010.                                                 DO0030
         IF    OPER NOT  =  "A"                             DO0030
           AND NOT  =  "M"                                  DO0030
               GO TO F4010-FN.                              DO0030
     F40A.                                                  DO0030
         MOVE SPACES TO CD00-CLECD                          DO0030
         MOVE "B" TO CD00-COCARA                            DO0030
         MOVE CA00-NUCOM TO CD00-NUCOM                      DO0030
         MOVE CD00-CLECD TO K-ACD05-CLECD.                  DO0030
     F40A-FN.                                               DO0030
         EXIT.                                              DO0030
     F40R.                                                  DO0030
         MOVE J-0030-LINE (1) TO I-0030-LINE.               DO0030
         MOVE SPACES TO CD00-KEYCD                          DO0030
         MOVE "C" TO CD00-COCARA                            DO0030
         MOVE CA00-NUCOM TO CD00-NUCOM                      DO0030
         MOVE CD00-CLECD TO K-RCD10-CLECD (1).              DO0030
     F40R-FN.                                               DO0030
         EXIT.                                              DO0030
     F40Z.                                                  DO0030
         MOVE CA00-CLEME TO ME00-CLEME                      DO0030
         MOVE ME00-CLEME TO K-ZME00-CLEME.                  DO0030
     F40Z-FN.                                               DO0030
         EXIT.                                              DO0030
     F4010-FN.                                              DO0030
         EXIT.                                              DO0030
*         ***********************************               DO0030
*         *                                 *               DO0030
*         *  SET-UP KEYS FOR SCREEN PAGING  *               DO0030
*         *                                 *               DO0030
*         ***********************************               DO0030
     F4020.                                                 DO0030
         IF    OPER NOT  =  "S"                             DO0030
           GO TO F4020-FN.                                  DO0030
         MOVE K-RCD10-CLECD (2) TO K-RCD10-CLECD (1).       DO0030
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```
 F4020-FN.                                                     DO0030
     EXIT.                                                     DO0030
 *          ***********************************                DO0030
 *          *                               *                  DO0030
 *          *   END OF TRANSACTION          *                  DO0030
 *          *                               *                  DO0030
 *          ***********************************                DO0030
 F4030.                                                        DO0030
     IF     OPER NOT  =  "E"                                   DO0030
        GO TO F4030-FN.                                        DO0030
     MOVE K-S0030-XTERM TO HE00-XTERM                          DO0030
     PERFORM F80-HELP-D THRU F80-FN.                           DO0030
     MOVE SPACE TO NEXT-TPR                                    DO0030
     MOVE 1 TO 7-CD02-XNDEST                                   DO0030
     MOVE K-S0030-XTERM TO 7-CD02-XTERM                        DO0030
     MOVE 3 TO 7-CD02-XLOMES                                   DO0030
     SEND 7-CD02 FROM 0030-MESSO WITH EGI AFTER ADVANCING 0 LINES.DO0030
 F4030-A.                                                      DO0030
     EXIT PROGRAM.                                             DO0030
 F4030-FN.                                                     DO0030
     EXIT.                                                     DO0030
 *          ***********************************                DO0030
 *          *                               *                  DO0030
 *          *   TRANSFER TO ANOTHER SCREEN  *                  DO0030
 *          *                               *                  DO0030
 *          ***********************************                DO0030
 F4040.                                                        DO0030
     IF     OPER NOT  =  "O"                                   DO0030
        GO TO F4040-FN.                                        DO0030
     MOVE 5-0030-PROGE TO NEXT-TPR.                            DO0030
 F4040-A.                                                      DO0030
     EXIT PROGRAM.                                             DO0030
 F4040-FN.                                                     DO0030
     EXIT.                                                     DO0030
 F40-FN.                                                       DO0030
     EXIT.                                                     DO0030
 END-OF-RECEPTION.                                             DO0030
     EXIT.                                                     DO0030
 *          ***********************************                DO0030
 *          *                               *                  DO0030
 *          *   DISPLAY PREPARATION         *                  DO0030
 *          *                               *                  DO0030
 *          ***********************************                DO0030
 F50.                                                          DO0030
     IF    OCF  =  "0"                                         DO0030
        GO TO END-OF-DISPLAY.                                  DO0030
 F5010.                                                        DO0030
     MOVE ZERO TO CATX.                                        DO0030
     MOVE ZERO TO CONFIGURATIONS.                              DO0030
     MOVE ALL "1" TO FIRST-ON-SEGMENT.                         DO0030
     IF     SCR-ER NOT  >  "1"                                 DO0030
        MOVE SPACE TO O-0030.                                  DO0030
     IF     SCR-ER  >  "1"                                     DO0030
        GO TO F6999-ITER-FT.                                   DO0030
     PERFORM F8115 THRU F8115-FN.                              DO0030
     MOVE K-R0030-LINE (1) TO K-R0030-LINE (2).                DO0030
 F5010-FN.                                                     DO0030
     EXIT.                                                     DO0030
 F50-FN.                                                       DO0030
     EXIT.                                                     DO0030
 *          ***********************************                DO0030
 *          *                               *                  DO0030
 *          *   CATEGORY PROCESSING LOOP    *                  DO0030
 *          *                               *                  DO0030
 *          ***********************************                DO0030
 F55.                                                          DO0030
     EXIT.                                                     DO0030
 F5510.                                                        DO0030
     MOVE SPACE TO CAT-ER.                                     DO0030
     IF     CATX  =  "0"                                       DO0030
        MOVE " " TO CATX                                       DO0030
        GO TO F5510-FN.                                        DO0030
     IF     CATX  =  " "                                       DO0030
        MOVE "R" TO CATX                                       DO0030
        MOVE ZERO TO ICATR.                                    DO0030
     IF     CATX NOT  =  "R"                                   DO0030
        OR ICATR  >  IRR                                       DO0030
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           GO TO F5510-R.                                       DO0030
    IF     ICATR  >  ZERO                                       DO0030
        MOVE O-0030-LINE TO P-0030-LINE (ICATR)                DO0030
        MOVE ER-0030-LINE TO PS-30-LINE (ICATR).               DO0030
    ADD 1 TO ICATR.                                            DO0030
    IF     ICATR NOT  >  IRR                                    DO0030
        MOVE P-0030-LINE (ICATR) TO O-0030-LINE                DO0030
        MOVE PS-30-LINE (ICATR) TO ER-0030-LINE.               DO0030
    GO TO F5510-FN.                                            DO0030
 F5510-R.                                                      DO0030
    EXIT.                                                      DO0030
 F5510-Z.                                                      DO0030
    IF     CATX  =  "R"                                         DO0030
        MOVE "Z" TO CATX                                       DO0030
        GO TO F5510-FN.                                        DO0030
 F5510-900.                                                    DO0030
    GO TO F6999-ITER-FT.                                       DO0030
 F5510-FN.                                                     DO0030
    EXIT.                                                      DO0030
 F55-FN.                                                       DO0030
    EXIT.                                                      DO0030
 *      **********************************                      DO0030
 *      *                              *                        DO0030
 *      *  SEGMENT ACCESS FOR DISPLAY  *                        DO0030
 *      *                              *                        DO0030
 *      **********************************                      DO0030
 F60.                                                          DO0030
    EXIT.                                                      DO0030
 F60A.                                                         DO0030
    IF     CATX NOT  =  " "                                     DO0030
        GO TO F60A-FN.                                         DO0030
 F6001.                                                        DO0030
    MOVE "0" TO CD05-CF.                                       DO0030
    MOVE K-ACD05-CLECD TO CD00-CLECD                           DO0030
    PERFORM F80-CD05-R THRU F80-FN.                            DO0030
    IF     IK  =  "1"                                           DO0030
        MOVE "G019" TO XERCD                                   DO0030
        PERFORM F81UT THRU F81UT-FN                            DO0030
        GO TO F6001-FN.                                        DO0030
    MOVE "1" TO CD05-CF.                                       DO0030
 F6001-FN.                                                     DO0030
    EXIT.                                                      DO0030
 F60A-FN.                                                      DO0030
    EXIT.                                                      DO0030
 F60R.                                                         DO0030
    IF     CATX NOT  =  "R"                                     DO0030
        OR  FT  =  "1"                                          DO0030
           GO TO F60R-FN.                                      DO0030
 F6003.                                                        DO0030
    MOVE "0" TO CD10-CF.                                       DO0030
    IF     CD10-FST  =  "1"                                     DO0030
        MOVE K-RCD10-CLECD (1) TO CD00-CLECD                   DO0030
        MOVE CD00-COCARA TO C-0030-COCARA                      DO0030
        MOVE CD00-NUCOM TO C-0030-NUCOM                        DO0030
        PERFORM F80-CD10-P THRU F80-FN                         DO0030
        MOVE ZERO TO CD10-FST                                  DO0030
    ELSE                                                       DO0030
        PERFORM F80-CD10-RN THRU F80-FN.                       DO0030
    IF     IK  =  "0"                                           DO0030
        IF CD00-COCARA NOT  =  C-0030-COCARA                    DO0030
           OR  CD00-NUCOM NOT  =  C-0030-NUCOM                  DO0030
              MOVE "1" TO IK.                                  DO0030
    IF     IK  =  "1"                                           DO0030
        MOVE "G039" TO XERCD                                   DO0030
        MOVE "1" TO FT                                         DO0030
        PERFORM F81UT THRU F81UT-FN                            DO0030
        GO TO F6003-FN.                                        DO0030
    MOVE "1" TO CD10-CF.                                       DO0030
    MOVE CD00-CLECD TO K-RCD10-CLECD (2).                      DO0030
 F6003-FN.                                                     DO0030
    EXIT.                                                      DO0030
 F60R-FN.                                                      DO0030
    EXIT.                                                      DO0030
 F60Z.                                                         DO0030
    IF     CATX NOT  =  "Z"                                     DO0030
        GO TO F60Z-FN.                                         DO0030
 F6006.                                                        DO0030
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          MOVE "0" TO ME00-CF.                               DO0030
          MOVE K-ZME00-CLEME TO ME00-CLEME                   DO0030
          PERFORM F80-ME00-R THRU F80-FN.                    DO0030
          IF     IK  =  "1"                                  DO0030
              MOVE "G069" TO XERCD                           DO0030
              PERFORM F81UT THRU F81UT-FN                    DO0030
              GO TO F6006-FN.                                DO0030
          MOVE "1" TO ME00-CF.                               DO0030
      F6006-FN.                                              DO0030
          EXIT.                                              DO0030
      F60Z-FN.                                               DO0030
          EXIT.                                              DO0030
      F60-FN.                                                DO0030
          EXIT.                                              DO0030
   *              +---------------------------------+        P000
   * LEVEL 10    I PREPARATION DISPLAY DATE/HOUR    I        P000
   *              +---------------------------------+        P000
      F64DA.                                                 P000
          IF     CATX  =  " "                                P000
              NEXT SENTENCE                                  P000
          ELSE                                               P000
              GO TO F64DA-FN.                                P000
          ACCEPT DATOR FROM DATE                             P040
          MOVE DATOR TO DAT6 DAT8                            P040
          MOVE DAT63 TO DAT61                                P040
          MOVE DAT81 TO DAT63                                P040
          MOVE DATOR TO DAT6                                 P080
          PERFORM F8120-I THRU F8120-Z                       P080
          MOVE DAT8C TO DAT8C.                               P080
          ACCEPT TIMCO FROM TIME                             P120
          MOVE TIMCOG TO TIMCOG                              P160
          MOVE TIMCOH TO TIMHOU                              P160
          MOVE TIMCOM TO TIMMIN                              P160
          MOVE TIMCOS TO TIMSEC                              P160
          MOVE ":" TO TIMS1 TIMS2                            P160
          MOVE TIMDAY TO TIMDAY.                             P160
      F64DA-FN.                                              P000
          EXIT.                                              P000
   *          ***********************************            DO0030
   *          *                             *                DO0030
   *          *  DATA ELEMENT TRANSFER      *                DO0030
   *          *                             *                DO0030
   *          ***********************************            DO0030
      F65.                                                   DO0030
          EXIT.                                              DO0030
      F65A.                                                  DO0030
          IF     CATX NOT  =  " "                            DO0030
              GO TO F65A-FN.                                 DO0030
          MOVE PROGE TO O-0030-PROGE.                        DO0030
          MOVE SESSI TO O-0030-SESSI.                        DO0030
          MOVE DAT8C TO O-0030-DATEM.                        DO0030
          MOVE TIMDAY TO O-0030-HEURE.                       DO0030
      F65A-A7.                                               DO0030
          MOVE CA00-NUCOM TO O-0030-NUCOM.                   DO0030
      F65A-A7-FN.                                            DO0030
          EXIT.                                              DO0030
      F65A-A8.                                               DO0030
          MOVE CA00-RAISOC TO O-0030-RAISOC.                 DO0030
      F65A-A8-FN.                                            DO0030
          EXIT.                                              DO0030
      F65A-CD05.                                             DO0030
          IF     CD05-CF NOT  =  "1"                         DO0030
              GO TO F65A-CD05-FN.                            DO0030
          MOVE CD05-MATE TO O-0030-MATE.                     DO0030
      F65A-B0.                                               DO0030
          MOVE CD05-RELEA TO O-0030-RELEA.                   DO0030
      F65A-B0-FN.                                            DO0030
          EXIT.                                              DO0030
      F65A-B1.                                               DO0030
          MOVE CD05-VILLE TO O-0030-VILLE.                   DO0030
      F65A-B1-FN.                                            DO0030
          EXIT.                                              DO0030
      F65A-B2.                                               DO0030
          MOVE CD05-COPOS TO O-0030-COPOS.                   DO0030
      F65A-B2-FN.                                            DO0030
          EXIT.                                              DO0030
      F65A-B3.                                               DO0030
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        MOVE CD05-REFCLI TO O-0030-REFCLI.                     DO0030
   F65A-B3-FN.                                                 DO0030
       EXIT.                                                   DO0030
   F65A-B4.                                                    DO0030
        MOVE CD05-DATE TO O-0030-DATE.                         DO0030
   F65A-B4-FN.                                                 DO0030
       EXIT.                                                   DO0030
   F65A-B5.                                                    DO0030
        MOVE CD05-CORRES TO O-0030-CORRES.                     DO0030
   F65A-B5-FN.                                                 DO0030
       EXIT.                                                   DO0030
   F65A-B6.                                                    DO0030
        MOVE CD05-REMIS TO O-0030-REMIS.                       DO0030
   F65A-B6-FN.                                                 DO0030
       EXIT.                                                   DO0030
   F65A-CD05-FN.                                               DO0030
       EXIT.                                                   DO0030
   F65A-FN.                                                    DO0030
       EXIT.                                                   DO0030
   F65R.                                                       DO0030
       IF      CATX NOT  =   "R"                               DO0030
          OR  FT   =   "1"                                     DO0030
                GO TO F65R-FN.                                 DO0030
       IF      ICATR  >  IRR                                   DO0030
          GO TO F65R-FN.                                       DO0030
   F65R-A4.                                                    DO0030
        MOVE CD00-FOURNI TO O-0030-FOURNI.                     DO0030
   F65R-A4-FN.                                                 DO0030
       EXIT.                                                   DO0030
   F65R-CD10.                                                  DO0030
       IF      CD10-CF NOT  =  "1"                             DO0030
           GO TO F65R-CD10-FN.                                 DO0030
        MOVE CD10-QTMAC TO O-0030-QTMAC.                       DO0030
   F65R-A6.                                                    DO0030
        MOVE CD10-QTMAL TO O-0030-QTMAL.                       DO0030
   F65R-A6-FN.                                                 DO0030
       EXIT.                                                   DO0030
   F65R-A7.                                                    DO0030
        MOVE CD10-INFOR TO O-0030-INFOR.                       DO0030
   F65R-A7-FN.                                                 DO0030
       EXIT.                                                   DO0030
   F65R-CD10-FN.                                               DO0030
       EXIT.                                                   DO0030
   *          +-----------------------------------+            P000
   * LEVEL 10    I REMAINS TO BE DELIVERED        I            P000
   *          +-----------------------------------+            P000
   F65BB.                                                      P000
       IF      CD10-QTMAL NOT  =  ZERO                         P100
           COMPUTE WW10-QTMAR  =  CD10-QTMAC - CD10-QTMAL      P100
           MOVE WW10-QTMAR TO O-0030-QTMAR.                    P120
   F65BB-FN.                                                   P000
       EXIT.                                                   P000
   F65R-FN.                                                    DO0030
       EXIT.                                                   DO0030
   F65Z.                                                       DO0030
       IF      CATX NOT  =   "Z"                               DO0030
           GO TO F65Z-FN.                                      DO0030
   F65Z-ME00.                                                  DO0030
       IF      ME00-CF NOT  =  "1"                             DO0030
           GO TO F65Z-ME00-FN.                                 DO0030
        MOVE ME00-MESSA TO O-0030-MESSA.                       DO0030
   F65Z-ME00-FN.                                               DO0030
       EXIT.                                                   DO0030
   F65Z-FN.                                                    DO0030
       EXIT.                                                   DO0030
   F65-FN.                                                     DO0030
       EXIT.                                                   DO0030
   F6999-ITER-FI.                                              DO0030
       GO TO F55.                                              DO0030
   F6999-ITER-FT.                                              DO0030
       EXIT.                                                   DO0030
   F6999-FN.                                                   DO0030
       EXIT.                                                   DO0030
   F70.                                                        DO0030
       EXIT.                                                   DO0030
   *          ***********************************              DO0030
   *          *                                 *              DO0030
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     *         *  ERROR PROCESSING                    *       DO0030
     *         *                                      *       DO0030
     *         ************************************           DO0030
     F7010.                                                   DO0030
        MOVE ZERO TO K01 K02 K04                              DO0030
        MOVE 1 TO K03.                                        DO0030
        MOVE LIBRA TO EM00-LIBRA                              DO0030
        MOVE PROGR TO EM00-PROGR                              DO0030
        MOVE ZERO TO EM00-LINUM                               DO0030
        MOVE "H" TO EM00-ENTYP.                               DO0030
     F7010-A.                                                 DO0030
        IF      K02 =  INR                                    DO0030
           AND K03 <  IRR                                     DO0030
              MOVE INA TO K02                                 DO0030
              ADD 1 TO K03.                                   DO0030
        ADD 1 TO K01 K02.                                     DO0030
        IF      DE-ER (K01) >  "1"                            DO0030
           OR   <  "0"                                        DO0030
              MOVE "Y" TO DE-AT (4, K01)                      DO0030
              MOVE "B" TO DE-AT (1, K01)                      DO0030
              MOVE "N" TO DE-AT (2, K01)                      DO0030
              MOVE "W" TO DE-AT (3, K01)                      DO0030
           IF K04 <  IER                                      DO0030
              MOVE DE-ER (K01) TO EM00-ERTYP                  DO0030
              MOVE K02 TO EM00-ERCOD9                         DO0030
              MOVE EM00-XEMKY TO EM00-ERMSG                   DO0030
              PERFORM F80-EM00-R THRU F80-FN                  DO0030
              ADD 1 TO K04                                    DO0030
              MOVE EM00-ERMSG TO O-0030-ERMSG1 (K04)          DO0030
              MOVE EM00-ERMSG TO O-0030-ERMSG (K04).          DO0030
        IF      K01 <  INT                                    DO0030
           GO TO F7010-A.                                     DO0030
        MOVE ZERO TO K50R.                                    DO0030
     F7010-B.                                                 DO0030
        ADD 1 TO K50R                                         DO0030
        IF      K50R >  K50L                                  DO0030
           OR K04 NOT <  IER                                  DO0030
              GO TO F7010-FN.                                 DO0030
        MOVE T-XEMKY (K50R) TO EM00-XEMKY EM00-ERMSG          DO0030
        PERFORM F80-EM00-R THRU F80-FN.                       DO0030
        ADD 1 TO K04                                          DO0030
        MOVE EM00-ERMSG TO O-0030-ERMSG1 (K04)                DO0030
        MOVE EM00-ERMSG TO O-0030-ERMSG (K04)                 DO0030
        GO TO F7010-B.                                        DO0030
     F7010-FN.                                                DO0030
        EXIT.                                                 DO0030
     *         ************************************           DO0030
     *         *                                      *       DO0030
     *         *  POSITIONING OF ATTRIBUTES           *       DO0030
     *         *                                      *       DO0030
     *         ************************************           DO0030
     F7020.                                                   DO0030
        MOVE ZERO TO TALLY                                    DO0030
        EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "Y".         DO0030
        IF      TALLY NOT <  0065                             DO0030
           MOVE ZERO TO TALLY                                 DO0030
           EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "Z".      DO0030
        IF      TALLY NOT <  0065                             DO0030
           MOVE ZERO TO TALLY                                 DO0030
           EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "X".      DO0030
        IF      TALLY NOT <  0065                             DO0030
           MOVE ZERO TO TALLY.                                DO0030
        ADD 1 TO TALLY.                                       DO0030
        MOVE X-ATPC (TALLY) TO X-ATPC1.                       DO0030
        MOVE ZERO TO K01.                                     DO0030
        EXAMINE DE-ATT1 (1) REPLACING ALL "N" BY ""243""      DO0030
        EXAMINE DE-ATT1 (1) REPLACING ALL "B" BY ""241""      DO0030
        EXAMINE DE-ATT1 (1) REPLACING ALL "D" BY ""249""      DO0030
        EXAMINE DE-ATT1 (2) REPLACING ALL "N" BY SPACE        DO0030
        EXAMINE DE-ATT1 (2) REPLACING ALL "U" BY ""245""      DO0030
        EXAMINE DE-ATT1 (2) REPLACING ALL "B" BY ""246""      DO0030
        EXAMINE DE-ATT1 (2) REPLACING ALL "R" BY ""248"".     DO0030
     F7020-A.                                                 DO0030
        ADD 1 TO K01.                                         DO0030
        IF      K01 >  INT                                    DO0030
           GO TO F7020-FN.                                    DO0030
        IF      DE-AT (1, K01) NOT =  SPACE                   DO0030
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              AND X-ATTRI (K01) NOT = ""249""                  DO0030
                  MOVE DE-AT (1, K01) TO X-ATTRI (K01).        DO0030
          IF      DE-AT (2, K01) NOT  =  SPACE                 DO0030
              MOVE DE-AT (2, K01) TO X-ATTRP (K01).            DO0030
          IF      DE-AT (2, K01)  =  SPACE                     DO0030
              AND X-ATTRP (K01) NOT  =  ""245""                DO0030
              AND X-ATTRP (K01) NOT  =  ""246""                DO0030
              AND X-ATTRP (K01) NOT  =  ""248""                DO0030
                  MOVE X-ATTRI (K01) TO X-ATTRP (K01).         DO0030
          GO TO F7020-A.                                       DO0030
      F7020-FN.                                                DO0030
          EXIT.                                                DO0030
      F70-FN.                                                  DO0030
          EXIT.                                                DO0030
      END-OF-DISPLAY.                                          DO0030
          EXIT.                                                DO0030
      F8Z.                                                     DO0030
          EXIT.                                                DO0030
      F8Z05.                                                   DO0030
          IF      SCR-ER  =  "1"                               DO0030
              NEXT SENTENCE                                    DO0030
          ELSE                                                 DO0030
              GO TO F8Z05-FN.                                  DO0030
          IF     K-S0030-DOC NOT  =  "1"                       DO0030
              GO TO F8Z05-A.                                   DO0030
          MOVE K-S0030-ERCOD9 TO K01 K02.                      DO0030
          IF     K02  >  INR                                   DO0030
              COMPUTE K02  =  K01 + (INR - INA) * (IRR - 1).   DO0030
          IF     K02  <  1                                     DO0030
              OR  K02  >  INT                                  DO0030
                  MOVE 1 TO K02.                               DO0030
          MOVE "X" TO DE-AT (4, K02)                           DO0030
          PERFORM F7020 THRU F7020-FN.                         DO0030
      F8Z05-A.                                                 DO0030
          MOVE K-S0030-XTERM TO HE00-XTERM.                    DO0030
          IF     K-S0030-DOC  =  "1"                           DO0030
              PERFORM F80-HELP-R THRU F80-FN                   DO0030
              MOVE HE00-SCREEN TO O-0030                       DO0030
              MOVE "0" TO K-S0030-DOC                          DO0030
              GO TO F8Z05-FN.                                  DO0030
          IF     K-S0030-DOC NOT  =  ZERO                      DO0030
              GO TO F8Z05-FN.                                  DO0030
          PERFORM F80-HELP-R THRU F80-FN.                      DO0030
          MOVE K-S0030-XTERM TO HE00-XTERM                     DO0030
          MOVE O-0030 TO HE00-SCREEN.                          DO0030
          IF     IK  =  "1"                                    DO0030
              PERFORM F80-HELP-W THRU F80-FN                   DO0030
          ELSE                                                 DO0030
              PERFORM F80-HELP-RW THRU F80-FN.                 DO0030
      F8Z05-FN.                                                DO0030
          EXIT.                                                DO0030
      *      *********************************                 DO0030
      *      *                               *                 DO0030
      *      *  DISPLAY                       *                 DO0030
      *      *                               *                 DO0030
      *      *********************************                 DO0030
      F8Z10.                                                   DO0030
          IF     SCR-ER NOT  >  "1"                            DO0030
              AND DE-AT (4, 011)  =  "X"                       DO0030
                  PERFORM F7020-FN.                            DO0030
          PERFORM F8145 THRU F8145-FN.                         DO0030
          MOVE 1 TO 7-CD02-XNDEST                              DO0030
          MOVE K-S0030-XTERM TO 7-CD02-XTERM.                  DO0030
          IF     SCR-ER NOT  >  "1"                            DO0030
              MOVE PROGR TO K-S0030-PROGR                      DO0030
              PERFORM F8140 THRU F8140-FN                      DO0030
              PERFORM F81SE THRU F81SE-FN.                     DO0030
          IF     SCR-ER  >  "1"                                DO0030
              OR  K50L  >  ZERO                                DO0030
                  PERFORM F81SM THRU F81SM-FN.                 DO0030
          IF     7-SENDVAR  =  "1"                             DO0030
              MOVE MESS-LENGV TO 7-CD02-XLOMES                 DO0030
              SEND 7-CD02 FROM 0030-MESSV WITH ESI AFTER ADVANCING 0   DO0030
              LINES                                            DO0030
                  PERFORM F81ES THRU F81ES-FN.                 DO0030
          MOVE 0030-XLOUT TO 7-CD02-XLOMES                     DO0030
          SEND 7-CD02 FROM ERROR-MESSF WITH EGI AFTER ADVANCING 0 LINESDO0030
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         PERFORM F81ES THRU F81ES-FN.                        DO0030
    F8Z10-G.                                                 DO0030
        EXIT.                                                DO0030
    F8Z10-FN.                                                DO0030
        EXIT.                                                DO0030
    *      ***********************************                DO0030
    *         *                            *                 DO0030
    *         *  END OF PROGRAM            *                 DO0030
    *         *                            *                 DO0030
    *      ***********************************                DO0030
    F8Z20.                                                   DO0030
        MOVE PROGE TO NEXT-TPR.                              DO0030
    F8Z20-A.                                                 DO0030
        EXIT PROGRAM.                                        DO0030
    F8Z20-FN.                                                DO0030
        EXIT.                                                DO0030
    F8Z-FN.                                                  DO0030
        EXIT.                                                DO0030
    *      ***********************************                DO0030
    *         *                            *                 DO0030
    *         *  PHYSICAL SEGMENT ACCESS ROUTINES *          DO0030
    *         *                            *                 DO0030
    *      ***********************************                DO0030
    F80.                                                     DO0030
        EXIT.                                                DO0030
    F80-CD05-R.                                              DO0030
        READ CD-FILE INVALID KEY                             DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD05-RU.                                             DO0030
        READ CD-FILE INVALID KEY                             DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD05-RW.                                             DO0030
        REWRITE CD05 INVALID KEY                             DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD05-UN.                                             DO0030
        GO TO F80-OK.                                        DO0030
    F8001-FN.                                                DO0030
        EXIT.                                                DO0030
    F80-CD10-R.                                              DO0030
        READ CD-FILE INVALID KEY                             DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD10-RU.                                             DO0030
        READ CD-FILE INVALID KEY                             DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD10-P.                                              DO0030
        START CD-FILE KEY NOT  <  CD00-CLECD INVALID KEY     DO0030
            GO TO F80-KO.                                    DO0030
    F80-CD10-RN.                                             DO0030
        READ CD-FILE                                         DO0030
            NEXT AT END                                      DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD10-W.                                              DO0030
        WRITE CD10 INVALID KEY                               DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD10-RW.                                             DO0030
        REWRITE CD10 INVALID KEY                             DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD10-D.                                              DO0030
        DELETE CD-FILE INVALID KEY                           DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
    F80-CD10-UN.                                             DO0030
        GO TO F80-OK.                                        DO0030
    F8002-FN.                                                DO0030
        EXIT.                                                DO0030
    F80-CD20-RU.                                             DO0030
        READ CD-FILE INVALID KEY                             DO0030
            GO TO F80-KO.                                    DO0030
        GO TO F80-OK.                                        DO0030
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    F80-CD20-W.                                        DO0030
        WRITE CD20 INVALID KEY                         DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F80-CD20-RW.                                       DO0030
        REWRITE CD20 INVALID KEY                       DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F80-CD20-UN.                                       DO0030
        GO TO F80-OK.                                  DO0030
    F8003-FN.                                          DO0030
        EXIT.                                          DO0030
    F80-FO10-RU.                                       DO0030
        READ FO-FILE INVALID KEY                       DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F80-FO10-RW.                                       DO0030
        REWRITE FO10 INVALID KEY                       DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F80-FO10-UN.                                       DO0030
        GO TO F80-OK.                                  DO0030
    F8004-FN.                                          DO0030
        EXIT.                                          DO0030
    F80-ME00-R.                                        DO0030
        READ ME-FILE INVALID KEY                       DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F80-ME00-RU.                                       DO0030
        READ ME-FILE INVALID KEY                       DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F8005-FN.                                          DO0030
        EXIT.                                          DO0030
    F80-HELP-R.                                        DO0030
        READ HE-FILE INVALID KEY                       DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F80-HELP-W.                                        DO0030
        WRITE HE00 INVALID KEY                         DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F80-HELP-RW.                                       DO0030
        REWRITE HE00 INVALID KEY                       DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F80-HELP-D.                                        DO0030
        DELETE HE-FILE INVALID KEY                     DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F8095-FN.                                          DO0030
        EXIT.                                          DO0030
    F80-EM00-R.                                        DO0030
        READ EM-FILE INVALID KEY                       DO0030
            GO TO F80-KO.                              DO0030
        GO TO F80-OK.                                  DO0030
    F8098-FN.                                          DO0030
        EXIT.                                          DO0030
    F80-OK.                                            DO0030
        MOVE "0" TO IK                                 DO0030
        MOVE PROGR TO XPROGR                           DO0030
        GO TO F80-FN.                                  DO0030
    F80-KO.                                            DO0030
        MOVE "1" TO IK                                 DO0030
        MOVE PROGR TO XPROGR.                          DO0030
    F8099-FN.                                          DO0030
        EXIT.                                          DO0030
    F80-FN.                                            DO0030
        EXIT.                                          DO0030
    F81.                                               DO0030
        EXIT.                                          DO0030
    *        ************************************      DO0030
    *        *                                  *      DO0030
    *        *  ABNORMAL END PROCEDURE          *      DO0030
    *        *                                  *      DO0030
    *        ************************************      DO0030
    F81ER.                                             DO0030
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            CALL "ABORT".                                           DO0030
      F81ER-FN.                                                     DO0030
         EXIT.                                                      DO0030
      F81ES.                                                        DO0030
         IF       7-CD01-XMSTA NOT  =  ZERO                         DO0030
             OR  7-CD02-XMSTA NOT  =  ZERO                          DO0030
                 CALL "ABORT".                                      DO0030
      F81ES-FN.                                                     DO0030
         EXIT.                                                      DO0030
      F81RE.                                                        DO0030
         RECEIVE 7-CD01 MESSAGE INTO 0030-MESSI NO DATA             DO0030
             MOVE SPACE TO 0030-MESSI                               DO0030
             MOVE 7-CD01-XTERM TO K-S0030-XTERM                     DO0030
             MOVE ZERO TO ICF.                                      DO0030
      F81RE-FN.                                                     DO0030
         EXIT.                                                      DO0030
      F81SE.                                                        DO0030
         MOVE MESS-LENGF TO 7-CD02-XLOMES                           DO0030
         SEND 7-CD02 FROM 0030-MESSO1 WITH ESI AFTER ADVANCING 0 LINESDO0030
             PERFORM F81ES THRU F81ES-FN.                           DO0030
      F81SE-FN.                                                     DO0030
         EXIT.                                                      DO0030
      F81SM.                                                        DO0030
         EXAMINE O-0030-ERMSG (01) REPLACING ALL SPACE BY ""19"".   DO0030
         MOVE ERROR-LENGF TO 7-CD02-XLOMES                          DO0030
         SEND 7-CD02 FROM ERROR-MESSO1 WITH ESI AFTER ADVANCING 0   DO0030
         LINES                                                      DO0030
             PERFORM F81ES THRU F81ES-FN.                           DO0030
      F81SM-FN.                                                     DO0030
         EXIT.                                                      DO0030
      *        ************************************                 DO0030
      *        *                                  *                 DO0030
      *        *  MEMORIZATION OF USER'S ERRORS   *                 DO0030
      *        *                                  *                 DO0030
      *        ************************************                 DO0030
      F81UT.                                                        DO0030
         IF     K50L  <  K50M                                       DO0030
             ADD 1 TO K50L                                          DO0030
             MOVE XEMKY TO T-XEMKY (K50L).                          DO0030
         MOVE "E" TO CAT-ER.                                        DO0030
      F81UT-FN.                                                     DO0030
         EXIT.                                                      DO0030
      *        ************************************                 DO0030
      *        *                                  *                 DO0030
      *        *  NUMERIC VALIDATION              *                 DO0030
      *        *                                  *                 DO0030
      *        ************************************                 DO0030
      F8110.                                                        DO0030
         MOVE ZERO TO TPOINT K01 K02 K03 ZONUM3 ZONUM2 C9 C91.      DO0030
      F8110-1.                                                      DO0030
         IF     K01  >  26                                          DO0030
             OR  K02  >  17                                         DO0030
                 GO TO F8110-5.                                     DO0030
         ADD 1 TO K01.                                              DO0030
         IF     C1 (K01)  =  SPACE                                  DO0030
             OR  C1 (K01)  =  "."                                   DO0030
                 GO TO F8110-1.                                     DO0030
         IF     C1 (K01) NOT  =  "-"                                DO0030
             AND C1 (K01) NOT  =  "+"                               DO0030
                 GO TO F8110-2.                                     DO0030
         IF     C9 NOT  =  ZERO                                     DO0030
             MOVE "5" TO DEL-ER                                     DO0030
             GO TO F8110-FN.                                        DO0030
         IF     K02  =  ZERO                                        DO0030
             MOVE "1" TO C91.                                       DO0030
         IF     C1 (K01)  =  "+"                                    DO0030
             MOVE 1 TO C9                                           DO0030
             GO TO F8110-1.                                         DO0030
         IF     SIGNE  =  " "                                       DO0030
             MOVE "5" TO DEL-ER                                     DO0030
             GO TO F8110-FN.                                        DO0030
         MOVE -1 TO C9                                              DO0030
         GO TO F8110-1.                                             DO0030
      F8110-2.                                                      DO0030
         IF     C1 (K01) NOT  =  ","                                DO0030
             GO TO F8110-4.                                         DO0030
         IF     TPOINT  =  "1"                                      DO0030
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        OR  NBCHP  =   0                           DO0030
            MOVE "5" TO DEL-ER                      DO0030
            GO TO F8110-FN.                         DO0030
   F8110-3.                                         DO0030
       IF     K02  >  NBCHA                         DO0030
          MOVE "5" TO DEL-ER                        DO0030
          GO TO F8110-FN.                           DO0030
       COMPUTE K04  =  18 - NBCHA + K02             DO0030
       MOVE 1 TO C3 (K04)                           DO0030
       DIVIDE ZONUM4 INTO ZONUM9                    DO0030
       MOVE NBCHA TO K02                            DO0030
       MOVE "1" TO TPOINT                           DO0030
       GO TO F8110-1.                               DO0030
   F8110-4.                                         DO0030
       IF     C1 (K01) NOT NUMERIC                  DO0030
          MOVE "4" TO DEL-ER                        DO0030
          GO TO F8110-FN.                           DO0030
       IF     C9 NOT = ZERO                         DO0030
          AND C91 = ZERO                            DO0030
             MOVE "5" TO DEL-ER                     DO0030
             GO TO F8110-FN.                        DO0030
       IF     C1 (K01)  =  "0"                      DO0030
          AND K02 = ZERO                            DO0030
          AND TPOINT = "0"                          DO0030
             GO TO F8110-1.                         DO0030
       ADD 1 TO K02                                 DO0030
       MOVE C1 (K01) TO C2 (K02).                   DO0030
       IF     TPOINT = "1"                          DO0030
          ADD 1 TO K03.                             DO0030
       IF     K03 > NBCHP                           DO0030
          MOVE "5" TO DEL-ER                        DO0030
          GO TO F8110-FN.                           DO0030
       GO TO F8110-1.                               DO0030
   F8110-5.                                         DO0030
       IF     TPOINT = "0"                          DO0030
          AND K02 > ZERO                            DO0030
             GO TO F8110-3.                         DO0030
       IF     SIGNE NOT = "+"                       DO0030
          GO TO F8110-FN.                           DO0030
       IF     C9 = ZERO                             DO0030
          MOVE 1 TO C9.                             DO0030
       ADD NBCHA NBCHP GIVING K01                   DO0030
       MULTIPLY C9 BY C29 (K01).                    DO0030
       IF     C29 (K01) = ZERO                      DO0030
          AND C9 = -1                               DO0030
             MOVE C4 TO C2 (K01).                   DO0030
   F8110-FN.                                        DO0030
       EXIT.                                        DO0030
   F8115.                                           DO0030
       MOVE ALL "-" TO O-0030-CHOIX.                DO0030
       MOVE ALL "-" TO O-0030-MATE.                 DO0030
       MOVE ALL "-" TO O-0030-RELEA.                DO0030
       MOVE ALL "-" TO O-0030-RUE.                  DO0030
       MOVE ALL "-" TO O-0030-VILLE.                DO0030
       MOVE ALL "-" TO O-0030-COPOS.                DO0030
       MOVE ALL "-" TO O-0030-REFCLI.               DO0030
       MOVE "..__.." TO O-0030-DATE.                DO0030
       MOVE ALL "-" TO O-0030-CORRES.               DO0030
       MOVE ALL "-" TO F-0030-REMIS.                DO0030
       MOVE ZERO TO ICATR.                          DO0030
   F8115-GRP.                                       DO0030
       ADD 1 TO ICATR                               DO0030
       MOVE P-0030-LINE (ICATR) TO O-0030-LINE      DO0030
       MOVE ALL "-" TO O-0030-CODMVT.               DO0030
       MOVE ALL "-" TO O-0030-FOURNI.               DO0030
       MOVE ALL "-" TO F-0030-QTMAC.                DO0030
       MOVE ALL "-" TO F-0030-QTMAL.                DO0030
       MOVE ALL "-" TO F-0030-QTMAR.                DO0030
       MOVE ALL "-" TO O-0030-INFOR.                DO0030
       MOVE O-0030-LINE TO P-0030-LINE (ICATR).     DO0030
       IF     ICATR < IRR                           DO0030
          GO TO F8115-GRP.                          DO0030
       MOVE ALL "-" TO O-0030-EDIT.                 DO0030
   F8115-FN.                                        DO0030
       EXIT.                                        DO0030
   *      ************************************      DO0030
   *         *                              *       DO0030
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     *            *  VALIDATION AND SETTING OF DATE   *        DO0030
     *            *                                   *        DO0030
     *            ************************************         DO0030
     F8120.                                                    DO0030
         EXIT.                                                 DO0030
     F8120-C.                                                  DO0030
         MOVE DAT73C TO DATCTY.                                DO0030
         MOVE DAT71C TO DAT71.                                 DO0030
         MOVE DAT72C TO DAT72.                                 DO0030
         MOVE DAT74C TO DAT73.                                 DO0030
         MOVE "00111" TO TT-DAT                                DO0030
         GO TO F8120-T.                                        DO0030
     F8120-D.                                                  DO0030
         MOVE CENTUR TO DATCTY DAT73C.                         DO0030
         MOVE DAT71 TO DAT71C.                                 DO0030
         MOVE DAT72 TO DAT72C                                  DO0030
         MOVE DAT73 TO DAT74C.                                 DO0030
         MOVE "00111" TO TT-DAT                                DO0030
         GO TO F8120-T.                                        DO0030
     F8120-E.                                                  DO0030
         MOVE CENTUR TO DATCTY DAT83C.                         DO0030
         MOVE DAT81 TO DAT81C.                                 DO0030
         MOVE DAT82 TO DAT82C.                                 DO0030
         MOVE DAT83 TO DAT84C                                  DO0030
         MOVE DATSEP TO DAT8S1C DAT8S2C.                       DO0030
         MOVE "01011" TO TT-DAT                                DO0030
         GO TO F8120-T.                                        DO0030
     F8120-G.                                                  DO0030
         MOVE DAT81G TO DATCTY.                                DO0030
         MOVE DAT82G TO DAT61.                                 DO0030
         MOVE DAT83G TO DAT62.                                 DO0030
         MOVE DAT84G TO DAT63.                                 DO0030
         MOVE "10110" TO TT-DAT                                DO0030
         GO TO F8120-T.                                        DO0030
     F8120-I.                                                  DO0030
         MOVE CENTUR TO DATCTY DAT61C.                         DO0030
         MOVE DAT61 TO DAT62C.                                 DO0030
         MOVE DAT62 TO DAT63C.                                 DO0030
         MOVE DAT63 TO DAT64C.                                 DO0030
         MOVE "10101" TO TT-DAT                                DO0030
         GO TO F8120-T.                                        DO0030
     F8120-M.                                                  DO0030
         MOVE DAT83C TO DATCTY.                                DO0030
         MOVE DAT81C TO DAT81.                                 DO0030
         MOVE DAT82C TO DAT82.                                 DO0030
         MOVE DAT84C TO DAT83                                  DO0030
         MOVE DATSEP TO DAT8S1 DAT8S2.                         DO0030
         MOVE "01011" TO TT-DAT                                DO0030
         GO TO F8120-T.                                        DO0030
     F8120-S.                                                  DO0030
         MOVE DAT61C TO DATCTY.                                DO0030
         MOVE DAT62C TO DAT61.                                 DO0030
         MOVE DAT63C TO DAT62.                                 DO0030
         MOVE DAT64C TO DAT63.                                 DO0030
         MOVE "10101" TO TT-DAT.                               DO0030
     F8120-T.                                                  DO0030
         IF     T-DAT (1)  =   "1"                             DO0030
            MOVE DAT61 TO DAT73 DAT74C                         DO0030
            MOVE DAT62 TO DAT72 DAT72C                         DO0030
            MOVE DAT63 TO DAT71 DAT71C                         DO0030
            MOVE DATCTY TO DAT73C.                             DO0030
         IF     T-DAT (2)  =   "1"                             DO0030
            MOVE DAT81 TO DAT71 DAT71C                         DO0030
            MOVE DAT82 TO DAT72 DAT72C                         DO0030
            MOVE DAT83 TO DAT73 DAT74C                         DO0030
            MOVE DATCTY TO DAT73C.                             DO0030
         IF     T-DAT (3)  =   "1"                             DO0030
            MOVE DAT71 TO DAT81 DAT81C                         DO0030
            MOVE DAT72 TO DAT82 DAT82C                         DO0030
            MOVE DAT73 TO DAT83 DAT84C                         DO0030
            MOVE DATSEP TO DAT8S1 DAT8S2 DAT8S1C DAT8S2C       DO0030
            MOVE DATCTY TO DAT83C.                             DO0030
         IF     T-DAT (4)  =   "1"                             DO0030
            MOVE DAT71 TO DAT63 DAT64C                         DO0030
            MOVE DAT72 TO DAT62 DAT63C                         DO0030
            MOVE DAT73 TO DAT61 DAT62C                         DO0030
            MOVE DATCTY TO DAT61C.                             DO0030
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        IF      T-DAT (5) =  "1"                                    DO0030
            MOVE DAT61 TO DAT82G                                    DO0030
            MOVE DAT62 TO DAT83G                                    DO0030
            MOVE DAT63 TO DAT84G                                    DO0030
            MOVE DATSET TO DAT8S1G DAT8S2G                          DO0030
            MOVE DATCTY TO DAT81G.                                  DO0030
    F8120-Z.                                                        DO0030
        EXIT.                                                       DO0030
    F8120-ER.                                                       DO0030
        MOVE "1" TO DEL-ER.                                         DO0030
        IF      DAT6 NOT NUMERIC                                    DO0030
            GO TO F8120-KO.                                         DO0030
        IF      DATCTY NOT NUMERIC                                  DO0030
            GO TO F8120-KO.                                         DO0030
        IF      DAT62  >  "12"                                      DO0030
            OR  DAT62  =  "00"                                      DO0030
            OR  DAT63  >  "31"                                      DO0030
            OR  DAT63  =  "00"                                      DO0030
                GO TO F8120-KO.                                     DO0030
        IF      DAT63  >  "30"                                      DO0030
            AND (DAT62  =  "04"                                     DO0030
            OR  DAT62  =  "06"                                      DO0030
            OR  DAT62  =  "09"                                      DO0030
            OR  DAT62  =  "11")   GO TO F8120-KO.                   DO0030
        IF      DAT62 NOT  =  "02"                                  DO0030
            GO TO F8120-FN.                                         DO0030
        IF      DAT63  >  "29"                                      DO0030
            GO TO F8120-KO.                                         DO0030
        IF      DAT619  =  ZERO                                     DO0030
            DIVIDE DATCTY9 BY 4 GIVING LEAP-REM                     DO0030
            COMPUTE LEAP-REM  =  DATCTY9 - 4 * LEAP-REM             DO0030
        ELSE                                                        DO0030
            DIVIDE DAT619 BY 4 GIVING LEAP-REM                      DO0030
            COMPUTE LEAP-REM  =  DAT619 - 4 * LEAP-REM.             DO0030
        IF      DAT63  <  "29"                                      DO0030
            OR  LEAP-REM  =  ZERO                                   DO0030
                GO TO F8120-FN.                                     DO0030
    F8120-KO.                                                       DO0030
        MOVE "5" TO DEL-ER.                                         DO0030
    F8120-FN.                                                       DO0030
        EXIT.                                                       DO0030
    *       ***********************************                     DO0030
    *       *                                 *                     DO0030
    *       *  HELP SUB-FUNCTION              *                     DO0030
    *       *                                 *                     DO0030
    *       ***********************************                     DO0030
    F8130.                                                          DO0030
        IF      I-0030-CHOIX NOT  =  HIGH-VALUE                     DO0030
            MOVE I-0030-CHOIX TO O-0030-CHOIX.                      DO0030
        IF      I-0030-MATE NOT  =  HIGH-VALUE                      DO0030
            MOVE I-0030-MATE TO O-0030-MATE.                        DO0030
        IF      I-0030-RELEA NOT  =  HIGH-VALUE                     DO0030
            MOVE I-0030-RELEA TO O-0030-RELEA.                      DO0030
        IF      I-0030-RUE NOT  =  HIGH-VALUE                       DO0030
            MOVE I-0030-RUE TO O-0030-RUE.                          DO0030
        IF      I-0030-VILLE NOT  =  HIGH-VALUE                     DO0030
            MOVE I-0030-VILLE TO O-0030-VILLE.                      DO0030
        IF      I-0030-COPOS NOT  =  HIGH-VALUE                     DO0030
            MOVE I-0030-COPOS TO O-0030-COPOS.                      DO0030
        IF      I-0030-REFCLI NOT  =  HIGH-VALUE                    DO0030
            MOVE I-0030-REFCLI TO O-0030-REFCLI.                    DO0030
        IF      I-0030-DATE NOT  =  HIGH-VALUE                      DO0030
            MOVE I-0030-DATE TO O-0030-DATE.                        DO0030
        IF      I-0030-CORRES NOT  =  HIGH-VALUE                    DO0030
            MOVE I-0030-CORRES TO O-0030-CORRES.                    DO0030
        IF      E-0030-REMIS NOT  =  HIGH-VALUE                     DO0030
            MOVE E-0030-REMIS TO F-0030-REMIS.                      DO0030
        MOVE ZERO TO ICATR.                                         DO0030
    F8130-GRP.                                                      DO0030
        ADD 1 TO ICATR                                              DO0030
        MOVE J-0030-LINE (ICATR) TO I-0030-LINE                    DO0030
        MOVE P-0030-LINE (ICATR) TO O-0030-LINE                    DO0030
        IF      I-0030-CODMVT NOT  =  HIGH-VALUE                    DO0030
            MOVE I-0030-CODMVT TO O-0030-CODMVT.                    DO0030
        IF      I-0030-FOURNI NOT  =  HIGH-VALUE                    DO0030
            MOVE I-0030-FOURNI TO O-0030-FOURNI.                    DO0030
        IF      E-0030-QTMAC NOT  =  HIGH-VALUE                     DO0030
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          MOVE E-0030-QTMAC TO F-0030-QTMAC.           DO0030
   IF     E-0030-QTMAL NOT  =  HIGH-VALUE              DO0030
          MOVE E-0030-QTMAL TO F-0030-QTMAL.           DO0030
   IF     E-0030-QTMAR NOT  =  HIGH-VALUE              DO0030
          MOVE E-0030-QTMAR TO F-0030-QTMAR.           DO0030
   IF     I-0030-INFOR NOT  =  HIGH-VALUE              DO0030
          MOVE I-0030-INFOR TO O-0030-INFOR.           DO0030
       MOVE O-0030-LINE TO P-0030-LINE (ICATR).        DO0030
   IF     ICATR  <  IRR                                DO0030
          GO TO F8130-GRP.                             DO0030
   IF     I-0030-EDIT NOT  =  HIGH-VALUE               DO0030
          MOVE I-0030-EDIT TO O-0030-EDIT.             DO0030
F8130-FN.                                              DO0030
   EXIT.                                               DO0030
F8140.                                                 DO0030
   MOVE 3 TO K01.                                      DO0030
F8140-A.                                               DO0030
   ADD 1 TO K01.                                       DO0030
   IF     K01  >  MESS-LENGF                           DO0030
          GO TO F8140-FN.                              DO0030
   IF     0030-CX (K01)  =  ""20""                     DO0030
          ADD 2 TO K01                                 DO0030
          GO TO F8140-A.                               DO0030
   IF     0030-CX (K01)  =  ""040""                    DO0030
          ADD 5 TO K01                                 DO0030
          GO TO F8140-A.                               DO0030
   IF     0030-CX (K01)  =  SPACE                      DO0030
          MOVE ""19"" TO 0030-CX (K01).                DO0030
       GO TO F8140-A.                                  DO0030
F8140-FN.                                              DO0030
   EXIT.                                               DO0030
F8145.                                                 DO0030
   MOVE T01004 TO S01004.                              DO0030
   MOVE T01015 TO S01015.                              DO0030
   MOVE T01060 TO S01060.                              DO0030
   MOVE T01071 TO S01071.                              DO0030
   MOVE T03018 TO S03018.                              DO0030
   MOVE T03034 TO S03034.                              DO0030
   MOVE T03063 TO S03063.                              DO0030
   MOVE T04013 TO S04013.                              DO0030
   MOVE T05009 TO S05009.                              DO0030
   MOVE T05052 TO S05052.                              DO0030
   MOVE T05074 TO S05074.                              DO0030
   MOVE T06016 TO S06016.                              DO0030
   MOVE T06061 TO S06061.                              DO0030
   MOVE T07018 TO S07018.                              DO0030
   MOVE T07061 TO S07061.                              DO0030
   MOVE T10003 TO S10003.                              DO0030
   MOVE T10007 TO S10007.                              DO0030
   MOVE T10016 TO S10016.                              DO0030
   MOVE T10026 TO S10026.                              DO0030
   MOVE T10035 TO S10035.                              DO0030
   MOVE T10042 TO S10042.                              DO0030
   MOVE T11003 TO S11003.                              DO0030
   MOVE T11007 TO S11007.                              DO0030
   MOVE T11016 TO S11016.                              DO0030
   MOVE T11026 TO S11026.                              DO0030
   MOVE T11035 TO S11035.                              DO0030
   MOVE T11042 TO S11042.                              DO0030
   MOVE T12003 TO S12003.                              DO0030
   MOVE T12007 TO S12007.                              DO0030
   MOVE T12016 TO S12016.                              DO0030
   MOVE T12026 TO S12026.                              DO0030
   MOVE T12035 TO S12035.                              DO0030
   MOVE T12042 TO S12042.                              DO0030
   MOVE T13003 TO S13003.                              DO0030
   MOVE T13007 TO S13007.                              DO0030
   MOVE T13016 TO S13016.                              DO0030
   MOVE T13026 TO S13026.                              DO0030
   MOVE T13035 TO S13035.                              DO0030
   MOVE T13042 TO S13042.                              DO0030
   MOVE T14003 TO S14003.                              DO0030
   MOVE T14007 TO S14007.                              DO0030
   MOVE T14016 TO S14016.                              DO0030
   MOVE T14026 TO S14026.                              DO0030
   MOVE T14035 TO S14035.                              DO0030
   MOVE T14042 TO S14042.                              DO0030
```

```
          MOVE T15003 TO S15003.                                   DO0030
          MOVE T15007 TO S15007.                                   DO0030
          MOVE T15016 TO S15016.                                   DO0030
          MOVE T15026 TO S15026.                                   DO0030
          MOVE T15035 TO S15035.                                   DO0030
          MOVE T15042 TO S15042.                                   DO0030
          MOVE T16003 TO S16003.                                   DO0030
          MOVE T16007 TO S16007.                                   DO0030
          MOVE T16016 TO S16016.                                   DO0030
          MOVE T16026 TO S16026.                                   DO0030
          MOVE T16035 TO S16035.                                   DO0030
          MOVE T16042 TO S16042.                                   DO0030
          MOVE T17003 TO S17003.                                   DO0030
          MOVE T17007 TO S17007.                                   DO0030
          MOVE T17016 TO S17016.                                   DO0030
          MOVE T17026 TO S17026.                                   DO0030
          MOVE T17035 TO S17035.                                   DO0030
          MOVE T17042 TO S17042.                                   DO0030
          MOVE T18003 TO S18003.                                   DO0030
          MOVE T18007 TO S18007.                                   DO0030
          MOVE T18016 TO S18016.                                   DO0030
          MOVE T18026 TO S18026.                                   DO0030
          MOVE T18035 TO S18035.                                   DO0030
          MOVE T18042 TO S18042.                                   DO0030
          MOVE T20022 TO S20022.                                   DO0030
          MOVE T20033 TO S20033.                                   DO0030
          MOVE T23002 TO S23002.                                   DO0030
          MOVE T24002 TO S24002.                                   DO0030
      F8145-FN.                                                    DO0030
          EXIT.                                                    DO0030
      *      ***********************************                   DO0030
      *      *                                 *                   DO0030
      *      * SEARCH FOR DOCUMENTATION REQUEST *                  DO0030
      *      *                                 *                   DO0030
      *      ***********************************                   DO0030
      F8150.                                                       DO0030
          MOVE ZERO TO K-S0030-ERCOD.                              DO0030
          IF     I-0030-CHOIX  = "$"                               DO0030
             MOVE HIGH-VALUE TO I-0030-CHOIX                       DO0030
             MOVE 001 TO K-S0030-ERCOD                             DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-CHOIX  = "="                               DO0030
             MOVE HIGH-VALUE TO I-0030-CHOIX                       DO0030
             MOVE SPACE TO K-S0030-ERCOD                           DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-MATE  = "$"                                DO0030
             MOVE HIGH-VALUE TO I-0030-MATE                        DO0030
             MOVE 002 TO K-S0030-ERCOD                             DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-MATE  = "="                                DO0030
             MOVE HIGH-VALUE TO I-0030-MATE                        DO0030
             MOVE SPACE TO K-S0030-ERCOD                           DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-RELEA = "$"                                DO0030
             MOVE HIGH-VALUE TO I-0030-RELEA                       DO0030
             MOVE 003 TO K-S0030-ERCOD                             DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-RELEA = "="                                DO0030
             MOVE HIGH-VALUE TO I-0030-RELEA                       DO0030
             MOVE SPACE TO K-S0030-ERCOD                           DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-RUE  = "$"                                 DO0030
             MOVE HIGH-VALUE TO I-0030-RUE                         DO0030
             MOVE 004 TO K-S0030-ERCOD                             DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-RUE  = "="                                 DO0030
             MOVE HIGH-VALUE TO I-0030-RUE                         DO0030
             MOVE SPACE TO K-S0030-ERCOD                           DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-VILLE = "$"                                DO0030
             MOVE HIGH-VALUE TO I-0030-VILLE                       DO0030
             MOVE 005 TO K-S0030-ERCOD                             DO0030
             GO TO F8150-FN.                                       DO0030
          IF     I-0030-VILLE = "="                                DO0030
             MOVE HIGH-VALUE TO I-0030-VILLE                       DO0030
             MOVE SPACE TO K-S0030-ERCOD                           DO0030
             GO TO F8150-FN.                                       DO0030
```

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```
        IF     I-0030-COPOS  =  "$"                          DO0030
           MOVE HIGH-VALUE TO I-0030-COPOS                   DO0030
           MOVE 006 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-FN.                                   DO0030
        IF     I-0030-COPOS  =  "="                          DO0030
           MOVE HIGH-VALUE TO I-0030-COPOS                   DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-FN.                                   DO0030
        IF     I-0030-REFCLI  =  "$"                         DO0030
           MOVE HIGH-VALUE TO I-0030-REFCLI                  DO0030
           MOVE 007 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-FN.                                   DO0030
        IF     I-0030-REFCLI  =  "="                         DO0030
           MOVE HIGH-VALUE TO I-0030-REFCLI                  DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-FN.                                   DO0030
        IF     I-0030-DATE  =  "$"                           DO0030
           MOVE HIGH-VALUE TO I-0030-DATE                    DO0030
           MOVE 008 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-FN.                                   DO0030
        IF     I-0030-DATE  =  "="                           DO0030
           MOVE HIGH-VALUE TO I-0030-DATE                    DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-FN.                                   DO0030
        IF     I-0030-CORRES  =  "$"                         DO0030
           MOVE HIGH-VALUE TO I-0030-CORRES                  DO0030
           MOVE 009 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-FN.                                   DO0030
        IF     I-0030-CORRES  =  "="                         DO0030
           MOVE HIGH-VALUE TO I-0030-CORRES                  DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-FN.                                   DO0030
        IF     E-0030-REMIS  =  "$"                          DO0030
           MOVE HIGH-VALUE TO E-0030-REMIS                   DO0030
           MOVE 010 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-FN.                                   DO0030
        IF     E-0030-REMIS  =  "="                          DO0030
           MOVE HIGH-VALUE TO E-0030-REMIS                   DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-FN.                                   DO0030
        MOVE ZERO TO ICATR.                                  DO0030
    F8150-GRP.                                               DO0030
        ADD 1 TO ICATR                                       DO0030
        MOVE J-0030-LINE (ICATR) TO I-0030-LINE              DO0030
        IF     I-0030-CODMVT  =  "$"                         DO0030
           MOVE HIGH-VALUE TO I-0030-CODMVT                  DO0030
           MOVE 011 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-A.                                    DO0030
        IF     I-0030-CODMVT  =  "="                         DO0030
           MOVE HIGH-VALUE TO I-0030-CODMVT                  DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-A.                                    DO0030
        IF     I-0030-FOURNI  =  "$"                         DO0030
           MOVE HIGH-VALUE TO I-0030-FOURNI                  DO0030
           MOVE 012 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-A.                                    DO0030
        IF     I-0030-FOURNI  =  "="                         DO0030
           MOVE HIGH-VALUE TO I-0030-FOURNI                  DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-A.                                    DO0030
        IF     E-0030-QTMAC  =  "$"                          DO0030
           MOVE HIGH-VALUE TO E-0030-QTMAC                   DO0030
           MOVE 013 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-A.                                    DO0030
        IF     E-0030-QTMAC  =  "="                          DO0030
           MOVE HIGH-VALUE TO E-0030-QTMAC                   DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-A.                                    DO0030
        IF     E-0030-QTMAL  =  "$"                          DO0030
           MOVE HIGH-VALUE TO E-0030-QTMAL                   DO0030
           MOVE 014 TO K-S0030-ERCOD                         DO0030
           GO TO F8150-A.                                    DO0030
        IF     E-0030-QTMAL  =  "="                          DO0030
           MOVE HIGH-VALUE TO E-0030-QTMAL                   DO0030
           MOVE SPACE TO K-S0030-ERCOD                       DO0030
           GO TO F8150-A.                                    DO0030
        IF     E-0030-QTMAR  =  "$"                          DO0030
```

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GENERATED PROGRAM   2

```
            MOVE HIGH-VALUE TO E-0030-QTMAR                     DO0030
            MOVE 015 TO K-S0030-ERCOD                           DO0030
            GO TO F8150-A.                                      DO0030
      IF    E-0030-QTMAR  =   "="                               DO0030
            MOVE HIGH-VALUE TO E-0030-QTMAR                     DO0030
            MOVE SPACE TO K-S0030-ERCOD                         DO0030
            GO TO F8150-A.                                      DO0030
      IF    I-0030-INFOR  =   "$"                               DO0030
            MOVE HIGH-VALUE TO I-0030-INFOR                     DO0030
            MOVE 016 TO K-S0030-ERCOD                           DO0030
            GO TO F8150-A.                                      DO0030
      IF    I-0030-INFOR  =   "="                               DO0030
            MOVE HIGH-VALUE TO I-0030-INFOR                     DO0030
            MOVE SPACE TO K-S0030-ERCOD                         DO0030
            GO TO F8150-A.                                      DO0030
        MOVE I-0030-LINE TO J-0030-LINE (ICATR).                DO0030
      IF    ICATR  <   IRR                                      DO0030
            GO TO F8150-GRP.                                    DO0030
      IF    I-0030-EDIT  =   "$"                                DO0030
            MOVE HIGH-VALUE TO I-0030-EDIT                      DO0030
            MOVE 017 TO K-S0030-ERCOD                           DO0030
            GO TO F8150-FN.                                     DO0030
      IF    I-0030-EDIT  =   "="                                DO0030
            MOVE HIGH-VALUE TO I-0030-EDIT                      DO0030
            MOVE SPACE TO K-S0030-ERCOD                         DO0030
            GO TO F8150-FN.                                     DO0030
        GO TO F8150-B.                                          DO0030
    F8150-A.                                                    DO0030
        MOVE I-0030-LINE TO J-0030-LINE (ICATR).                DO0030
    F8150-B.                                                    DO0030
      EXIT.                                                     DO0030
    F8150-FN.                                                   DO0030
      EXIT.                                                     DO0030
    F8155.                                                      DO0030
        MOVE S03034 TO R03034 T03034.                           DO0030
        MOVE S03063 TO R03063 T03063.                           DO0030
        MOVE S05009 TO R05009 T05009.                           DO0030
        MOVE S05052 TO R05052 T05052.                           DO0030
        MOVE S05074 TO R05074 T05074.                           DO0030
        MOVE S06016 TO R06016 T06016.                           DO0030
        MOVE S06061 TO R06061 T06061.                           DO0030
        MOVE S07018 TO R07018 T07018.                           DO0030
        MOVE S07061 TO R07061 T07061.                           DO0030
        MOVE S10003 TO R10003 T10003.                           DO0030
        MOVE S10007 TO R10007 T10007.                           DO0030
        MOVE S10016 TO R10016 T10016.                           DO0030
        MOVE S10026 TO R10026 T10026.                           DO0030
        MOVE S10035 TO R10035 T10035.                           DO0030
        MOVE S10042 TO R10042 T10042.                           DO0030
        MOVE S11003 TO R11003 T11003.                           DO0030
        MOVE S11007 TO R11007 T11007.                           DO0030
        MOVE S11016 TO R11016 T11016.                           DO0030
        MOVE S11026 TO R11026 T11026.                           DO0030
        MOVE S11035 TO R11035 T11035.                           DO0030
        MOVE S11042 TO R11042 T11042.                           DO0030
        MOVE S12003 TO R12003 T12003.                           DO0030
        MOVE S12007 TO R12007 T12007.                           DO0030
        MOVE S12016 TO R12016 T12016.                           DO0030
        MOVE S12026 TO R12026 T12026.                           DO0030
        MOVE S12035 TO R12035 T12035.                           DO0030
        MOVE S12042 TO R12042 T12042.                           DO0030
        MOVE S13003 TO R13003 T13003.                           DO0030
        MOVE S13007 TO R13007 T13007.                           DO0030
        MOVE S13016 TO R13016 T13016.                           DO0030
        MOVE S13026 TO R13026 T13026.                           DO0030
        MOVE S13035 TO R13035 T13035.                           DO0030
        MOVE S13042 TO R13042 T13042.                           DO0030
        MOVE S14003 TO R14003 T14003.                           DO0030
        MOVE S14007 TO R14007 T14007.                           DO0030
        MOVE S14016 TO R14016 T14016.                           DO0030
        MOVE S14026 TO R14026 T14026.                           DO0030
        MOVE S14035 TO R14035 T14035.                           DO0030
        MOVE S14042 TO R14042 T14042.                           DO0030
        MOVE S15003 TO R15003 T15003.                           DO0030
        MOVE S15007 TO R15007 T15007.                           DO0030
        MOVE S15016 TO R15016 T15016.                           DO0030
        MOVE S15026 TO R15026 T15026.                           DO0030
```

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        MOVE S15035 TO R15035 T15035.                          DO0030
        MOVE S15042 TO R15042 T15042.                          DO0030
        MOVE S16003 TO R16003 T16003.                          DO0030
        MOVE S16007 TO R16007 T16007.                          DO0030
        MOVE S16016 TO R16016 T16016.                          DO0030
        MOVE S16026 TO R16026 T16026.                          DO0030
        MOVE S16035 TO R16035 T16035.                          DO0030
        MOVE S16042 TO R16042 T16042.                          DO0030
        MOVE S17003 TO R17003 T17003.                          DO0030
        MOVE S17007 TO R17007 T17007.                          DO0030
        MOVE S17016 TO R17016 T17016.                          DO0030
        MOVE S17026 TO R17026 T17026.                          DO0030
        MOVE S17035 TO R17035 T17035.                          DO0030
        MOVE S17042 TO R17042 T17042.                          DO0030
        MOVE S18003 TO R18003 T18003.                          DO0030
        MOVE S18007 TO R18007 T18007.                          DO0030
        MOVE S18016 TO R18016 T18016.                          DO0030
        MOVE S18026 TO R18026 T18026.                          DO0030
        MOVE S18035 TO R18035 T18035.                          DO0030
        MOVE S18042 TO R18042 T18042.                          DO0030
        MOVE S20022 TO R20022 T20022.                          DO0030
        MOVE S20033 TO R20033 T20033.                          DO0030
    F8155-FN.                                                  DO0030
        EXIT.                                                  DO0030
    F81-FN.                                                    DO0030
        EXIT.                                                  DO0030
    *        +--------------------------------+                P000
    * LEVEL 10   I ZIP CODE VALIDATION       I                P000
    *        +--------------------------------+                P000
    F93CP.                                                     P000
        MOVE 1 TO IWP20R.                                      P100
    F93CP-100.                                                 P100
        IF    IWP20R NOT  >  IWP20L                            P100
           AND WP20-COPOS (IWP20R) NOT  =  WP30-COPOS          P100
              ADD 1 TO IWP20R                                  P100
              GO TO F93CP-100.                                 P100
        IF    IWP20R  >  IWP20L                                P200
           MOVE "5" TO DEL-ER                                  P200
           GO TO F93CP-FN.                                     P220
    F93CP-FN.                                                  DO0030
        EXIT.                                                  DO0030
```

6. VIP-TYPE PROGRAM

6.1. INTRODUCTION

INTRODUCTION

The sample program uses the DPS7 variant with the DMIV access method and
the TDS monitor.

This example is adapted to VIP7700 or compatible terminals.

Only the parts which differ from the MULTI-SCREEN variant are described in
this chapter.

6.2. BEGINNING OF WORKING STORAGE

<u>BEGINNING OF WORKING-STORAGE</u>

The 'WSS-BEGIN' level is generated at the beginning of the WORKING-STORAGE SECTION for all programs.

It contains all the variables and keys necessary for automatic processing.

IK Error indicator for file accesses.

> '0' No error.
> '1' Error.

OPER Operation code.

> 'A' Display.
> 'M' Update.
> 'S' Screen continuation.
> 'E' End.
> 'P' Previous display.
> 'O' Transfer to another screen.

OPERD Operation code for deferred branching.

> Transferred to OPER in F40.

> 'O' Deferred call of another screen.

> OPER and OPERD: If they correspond to a Data Element defined as an Operation Code on the Screen Call of Elements (-CE) screen (value 'O' in the VALIDATION CONDITIONS/SET VARIABLES field), they are processed in the F0520 function. If not, they are processed in the F20 function.

CATX Code of the category being executed.

> '0' Beginning of reception or display.
> ' ' Screen-top.
> 'R' Repetitive.
> 'Z' Screen-bottom.

CATM Transaction code.

> 'C' Creation.
> 'M' Modification.

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           'A' Deletion.
           'X' Implicit update.

ICATR Indicator for current category being processed.

(Repetitive category only)

SCR-ER Screen error indicator.

'1' no error.
'4' error.

FT End of repetitive category indicator.

'0' Lines to display.
'1' No more lines to display.

ICF Input Configuration.

'1' Screen in input.
'0' No screen in input.

OCF Output Configuration.

'1' Screen in output.
'0' No screen in output.

CAT-ER Ongoing error indicator for current category.

' ' No error.
'E' Error.

7-HT Field separator (not generated for DPS7 FORMS).

7-SENDVAR Used to condition the sending of variable fields
(not generated for DPS7 FORMS).

I-PFKEY Stores the function key.

INA Number of Data Elements in the screen-top category.

INR INA + Number of Data Elements in the repetitive category.

INZ INR + Number of Data Elements in the screen-bottom category.

IRR Number of repetitions in the repetitive category.

INT Number of input fields.

IER Number of error messages on the screen.

DEL-ER Memorizes Data Element error (work variable).

The 'CONSTANTS' level is also generated for all programs. It contains:

. The compilation date of the on-line generator (PACE30 and PACE80), as
  well as the date of the related skeleton (these appear as comment lines),

. Information on the program and work areas generated according to the
  procedures executed in the program:

SESSI   Session number of the generated program.
LIBRA   Code of the library.
DATGN   Generated program date.
PROGR   System program code.
PROGE   COBOL program-id.
TIMGN   Generated program time.
USERCO   User code.
COBASE   Database code.

If a request for HELP documentation is entered on the Screen Definition screen,
the following fields are generated:

PRDOC: External name of the 'HELP SCREEN' program.

5-scrn-PROGE: Field containing the name of called program.
This field is filled during a screen branching operation ('scrn' = the last four
characters of the screen code).

DATCE This field includes the CENTUR field (containing the value of the current
century) and a blank date area (DATOR) in which the user can store the
processing date in a year-month-day format (DATOA-DATOM-DATOJ).

Note: if the year is less than '61', the CENTUR field is automatically
set to '20'.

DAT6 Fields for date formatting (MMDDYY or DDMMYY) and
DAT7 printing (for example DD/MM/YY).
DAT8 These fields are generated if a date processing operator is used in the '-P' lines
of the program or if a variable data element ('V') has a date format.

DATSEP This field contains the separator used for dates. The default value ('/') can be
modified by via Procedural Code (-P) lines.

DATSET This field contains the separator used for the Gregorian date.

The default value ('-') can be modified via Procedural Code (-P) lines.

DATCTY Field for century loading.

DAT6C Field for non-formatted date with century.

DAT7C Field for non-formatted date with century.

DAT8C Field for formatted date with century (DD/MM/CCYY).

DAT8G Field for the Gregorian type of date -- with century also -- (CCYY-MM-DD).

TIMCO Field for time loading.

TIMDAY Field for time formatting (HH:MM:SS).

The 'CONFIGURATIONS' level contains one variable 'ddss-CF' ('ddss' =
segment code in the generated program) for each segment accessed in the
program, which allows for conditioned access for each segment in the procedure.

```
     WORKING-STORAGE SECTION.                                    DO0030
     01              WSS-BEGIN.                                  DO0030
       05            FILLER        PICTURE X(7) VALUE "WORKING".  DO0030
       05            IK            PICTURE X.                     DO0030
       05            BLANC         PICTURE X VALUE SPACE.         DO0030
       05            OPER          PICTURE X.                     DO0030
       05            OPERD         PICTURE X VALUE SPACE.         DO0030
       05            CATX          PICTURE X.                     DO0030
       05            CATM          PICTURE X.                     DO0030
       05            ICATR         PICTURE 99.                    DO0030
       05            SCR-ER        PICTURE X.                     DO0030
       05            FT            PICTURE X.                     DO0030
       05            ICF           PICTURE X.                     DO0030
       05            OCF           PICTURE X.                     DO0030
       05            CAT-ER        PICTURE X.                     DO0030
       05            7-HT          PICTURE X VALUE ""06"".        DO0030
       05            I-PFKEY       PICTURE XX.                    DO0030
       05            7-SENDVAR     PICTURE X VALUE "1".           DO0030
       05            INA           PICTURE 999 VALUE 010.         DO0030
       05            INR           PICTURE 999 VALUE 016.         DO0030
       05            INZ           PICTURE 999 VALUE 017.         DO0030
       05            IRR           PICTURE 99 VALUE 09.           DO0030
       05            INT           PICTURE 999 VALUE 065.         DO0030
       05            IER           PICTURE 99 VALUE 01.           DO0030
       05            DEL-ER        PICTURE X.                     DO0030
     01              PACBASE-CONSTANTS.                          DO0030
   * OLSD DATES PACE30 : 10/03/94                                DO0030
   *          PACE80 : 10/03/94   PAC7SG : 940503                DO0030
       05            SESSI         PICTURE X(5) VALUE "0413 ".    DO0030
       05            LIBRA         PICTURE X(3) VALUE "AD7".      DO0030
       05            DATGN         PICTURE X(8) VALUE "07/28/94". DO0030
       05            PROGR         PICTURE X(6) VALUE "DO0030".   DO0030
       05            PROGE         PICTURE X(8) VALUE "DO0030P ". DO0030
       05            TIMGN         PICTURE X(8) VALUE "10:26:20". DO0030
       05            USERCO        PICTURE X(8) VALUE "PDMM    ". DO0030
       05            PRDOC         PICTURE X(8) VALUE "DOP050".   DO0030
       05            5-0030-PROGE  PICTURE X(8).                 DO0030
     01              DATCE.                                      DO0030
       05            CENTUR        PICTURE XX VALUE "19".         DO0030
       05            DATOR.                                      DO0030
         10          DATOA         PICTURE XX.                    DO0030
         10          DATOM         PICTURE XX.                    DO0030
         10          DATOJ         PICTURE XX.                    DO0030
     01              DAT6.                                       DO0030
       10            DAT61.                                      DO0030
         15          DAT619        PICTURE 99.                    DO0030
       10            DAT62.                                      DO0030
         15          DAT629        PICTURE 99.                    DO0030
       10            DAT63         PICTURE XX.                    DO0030
     01              DAT7.                                       DO0030
       10            DAT71         PICTURE XX.                    DO0030
       10            DAT72         PICTURE XX.                    DO0030
       10            DAT73         PICTURE XX.                    DO0030
     01              DAT8.                                       DO0030
       10            DAT81         PICTURE XX.                    DO0030
       10            DAT8S1        PICTURE X.                     DO0030
       10            DAT82         PICTURE XX.                    DO0030
       10            DAT8S2        PICTURE X.                     DO0030
       10            DAT83         PICTURE XX.                    DO0030
     01              DATSEP        PICTURE X VALUE "/".           DO0030
     01              DATSET        PICTURE X VALUE "-".           DO0030
     01              DATCTY.                                     DO0030
       05            DATCTY9       PICTURE 99.                    DO0030
     01              DAT6C.                                      DO0030
       10            DAT61C        PICTURE XX.                    DO0030
       10            DAT62C        PICTURE XX.                    DO0030
       10            DAT63C        PICTURE XX.                    DO0030
       10            DAT64C        PICTURE XX.                    DO0030
     01              DAT7C.                                      DO0030
       10            DAT71C        PICTURE XX.                    DO0030
       10            DAT72C        PICTURE XX.                    DO0030
       10            DAT73C        PICTURE XX.                    DO0030
       10            DAT74C        PICTURE XX.                    DO0030
     01              DAT8C.                                      DO0030
       10            DAT81C        PICTURE XX.                    DO0030
       10            DAT8S1C       PICTURE X VALUE "/".           DO0030
       10            DAT82C        PICTURE XX.                    DO0030
```

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         10              DAT8S2C        PICTURE X VALUE "/".        DO0030
         10              DAT83C         PICTURE XX.                 DO0030
         10              DAT84C         PICTURE XX.                 DO0030
      01                 DAT8G.                                     DO0030
         10              DAT81G         PICTURE XX.                 DO0030
         10              DAT82G         PICTURE XX.                 DO0030
         10              DAT8S1G        PICTURE X VALUE "-".        DO0030
         10              DAT83G         PICTURE XX.                 DO0030
         10              DAT8S2G        PICTURE X VALUE "-".        DO0030
         10              DAT84G         PICTURE XX.                 DO0030
      01                 TIMCO.                                     DO0030
         02              TIMCOG.                                    DO0030
          05             TIMCOH         PICTURE XX.                 DO0030
          05             TIMCOM         PICTURE XX.                 DO0030
          05             TIMCOS         PICTURE XX.                 DO0030
         02              TIMCOC         PICTURE XX.                 DO0030
      01                 TIMDAY.                                    DO0030
         05              TIMHOU         PICTURE XX.                 DO0030
         05              TIMS1          PICTURE X VALUE ":".        DO0030
         05              TIMMIN         PICTURE XX.                 DO0030
         05              TIMS2          PICTURE X VALUE ":".        DO0030
         05              TIMSEC         PICTURE XX.                 DO0030
      01                 CONFIGURATIONS.                            DO0030
         05              CD05-CF        PICTURE X.                  DO0030
         05              CD10-CF        PICTURE X.                  DO0030
         05              CD20-CF        PICTURE X.                  DO0030
         05              FO10-CF        PICTURE X.                  DO0030
         05              ME00-CF        PICTURE X.                  DO0030
```

6.3. SCREEN MAP DESCRIPTION

<u>SCREEN MAP DESCRIPTION</u>

The MAP is described after the 'CONFIGURATIONS' level in the WORKING-STORAGE SECTION. This part of the program includes the descriptions of labels and variable fields, which are separated by the tabulation.

The MAP is described in native language.

The screen fields are coded according to the following rules ('scrn' = last four characters of screen code):

```
     .I-scrn          Screen in reception.

     .O-scrn          Screen in display.

     .I-scrn-MATE     Alphanumeric reception field.

     .E-scrn-REMIS    Alphanumeric definition of an
                      I-scrn-REMIS field, which is numeric
                      in reception.

     .F-0030-QTMAC    Alphanumeric definition of an
                      O-0030-QTMAC field, which is numeric
                      in display.
```

The data element defining the repetitive category is coded as follows in the screen map description:

```
     .J-0030-LINE OCCURS  9 in reception,

     .P-0030-LINE OCCURS  9 in display,
```

containing a FILLER.

The description of the fields of the data element which defines the repetitive category is generated outside the screen description.

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This description is made up of a 'FILLER' field which is filled in with each
occurrence of the category. It is used to execute the procedures for each of the
elementary data elements.

It is generated according to the same rules as above. For example:
```
 .I-0030-LINE   used for procedures in reception,

  containing,

    .I-0030-FOURNI
    .E-0030-QTMAC
    etc.

 .O-0030-LINE    used for procedures in display,

  containing,

    .O-0030-FOURNI
    .O-0030-QTMAC
```

An ordinary repetitive data element (which does not define a repetitive category)
is described directly in the screen description in the following form:
```
 .05 FILLER        OCCURS 2.
    .10 I-scrn-LREF1           in reception

 .05 FILLER        OCCURS 2.
    .10 O-scrn-LREF1           in display
```

In this case, the procedures for each occurrence of the data element are not
generated and are to be inserted by the user via Structured Code (validations,
transfers, etc.).

The formats used in the generated programs correspond to the following rules:

DATA ELEMENT WITH NATURE 'P'

Reception screen or display screen:

  . The format is the internal format of the data element.

DATA ELEMENT WITH NATURE 'V'

Reception screen:

  . The format is the internal format of the data element.

Display screen:

  . For alphanumeric data elements, it is the internal format of the data element,

  . For numeric data elements, it is a print format built from the internal format, with replacement of non-significant leading zeros by spaces.

DATA ELEMENT WITH A CONVERSATIONAL FORMAT

(See the SPECIFICATIONS DICTIONARY Reference Manual, Chapter "DATA ELEMENTS", Subchapter "DESCRIPTION SCREEN (-D)").

Reception screen:

  . The internal format is constructed from the conversational format entered on the Data Element Description screen.

```
EXAMPLE:      -conversational format:      ZZZ99.99
              -constructed internal format: 9(5)V9(2)
```

```
Display screen:
```

  . The format is the conversational format of the element entered on the Data Element Description screen.

```
   01                0030-MESSO.                                        *AA040
    02               0030-MESSO1.                                       *AA040
      05             FILLER      PICTURE XXX VALUE ""40,214,13"".        *AA040
      05             FILLER      PICTURE XXX VALUE ""20,065,128"".       *AA040
      05             FILLER      PICTURE X VALUE ""29"".                 *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             S01004      PICTURE X(008) VALUE SPACE.             *AA040
      05             FILLER      PICTURE XXX VALUE ""20,065,108"".       *AA040
      05             FILLER      PICTURE X(001) VALUE "-".               *AA040
      05             FILLER      PICTURE XXX VALUE ""20,065,076"".       *AA040
      05             S01015      PICTURE X(005) VALUE SPACE.             *AA040
      05             FILLER      PICTURE XXX VALUE ""20,065,248"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,241";"241,149"".              *AA040
      05             FILLER      PICTURE X(030) VALUE                    *AA040
                                 ""***  ORDER INPUT SCREEN  *** ".       *AA040
      05             FILLER      PICTURE XXX VALUE ""20,065,234"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             S01060      PICTURE X(010) VALUE SPACE.             *AA040
      05             FILLER      PICTURE XXX VALUE ""20,065,135"".       *AA040
      05             S01071      PICTURE X(008) VALUE SPACE.             *AA040
      05             FILLER      PICTURE XXX VALUE ""20,128,128"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,241";"241,149"".              *AA040
      05             FILLER      PICTURE X(013) VALUE                    *AA040
                                 "ORDER NUMBER:".                        *AA040
      05             FILLER      PICTURE XXX VALUE ""20,128,241"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             S03018      PICTURE X(005) VALUE SPACE.             *AA040
      05             FILLER      PICTURE XXX VALUE ""20,128,249"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,241";"241,149"".              *AA040
      05             FILLER      PICTURE X(007) VALUE "SYSTEM:".         *AA040
      05             FILLER      PICTURE XXX VALUE ""20,128,125"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             FILLER      PICTURE XX VALUE ""30,241"".            *AA040
      05             FILLER      PICTURE XXX VALUE ""20,128,202"".       *AA040
      05             FILLER      PICTURE X VALUE ""29"".                 *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             FILLER      PICTURE XXX VALUE ""20,128,228"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,241";"241,149"".              *AA040
      05             FILLER      PICTURE X(008) VALUE "RELEASE:".        *AA040
      05             FILLER      PICTURE XXX VALUE ""20,128,091"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             FILLER      PICTURE XX VALUE ""30,241"".            *AA040
      05             FILLER      PICTURE XXX VALUE ""20,128,130"".       *AA040
      05             FILLER      PICTURE X VALUE ""29"".                 *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             FILLER      PICTURE XXX VALUE ""20,124,128"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,241";"241,149"".              *AA040
      05             FILLER      PICTURE X(005) VALUE "CUST.".           *AA040
      05             FILLER      PICTURE XXX VALUE ""20,124,079"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             S04013      PICTURE X(050) VALUE SPACE.             *AA040
      05             FILLER      PICTURE XXX VALUE ""20,092,126"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             FILLER      PICTURE XX VALUE ""30,241"".            *AA040
      05             FILLER      PICTURE XXX VALUE ""20,092,216"".       *AA040
      05             FILLER      PICTURE X VALUE ""29"".                 *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             FILLER      PICTURE XXX VALUE ""20,092,218"".       *AA040
      05             FILLER      PICTURE X(6) VALUE                      *AA040
                                 ""040,075,243";"243,149"".              *AA040
      05             FILLER      PICTURE XX VALUE ""30,241"".            *AA040
      05             FILLER      PICTURE XXX VALUE ""20,092,136"".       *AA040
```

```
05        FILLER       PICTURE X VALUE ""29"".           *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XXX VALUE ""20,092,137"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XX VALUE ""30,241"".      *AA040
05        FILLER       PICTURE XXX VALUE ""20,092,150"". *AA040
05        FILLER       PICTURE X VALUE ""29"".           *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XXX VALUE ""20,109,128"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,241";"241,149"".        *AA040
05        FILLER       PICTURE X(011) VALUE              *AA040
                       "CUST. REF.:".                    *AA040
05        FILLER       PICTURE XXX VALUE ""20,109,076"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XX VALUE ""30,241"".      *AA040
05        FILLER       PICTURE XXX VALUE ""20,109,213"". *AA040
05        FILLER       PICTURE X VALUE ""29"".           *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XXX VALUE ""20,109,215"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,241";"241,149"".        *AA040
05        FILLER       PICTURE X(011) VALUE              *AA040
                       "ORDER DATE:".                    *AA040
05        FILLER       PICTURE XXX VALUE ""20,109,075"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XX VALUE ""30,241"".      *AA040
05        FILLER       PICTURE XXX VALUE ""20,109,131"". *AA040
05        FILLER       PICTURE X VALUE ""29"".           *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XXX VALUE ""20,081,124"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,241";"241,149"".        *AA040
05        FILLER       PICTURE X(012) VALUE              *AA040
                       "COORDINATOR:".                   *AA040
05        FILLER       PICTURE XXX VALUE ""20,081,241"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XX VALUE ""30,241"".      *AA040
05        FILLER       PICTURE XXX VALUE ""20,081,210"". *AA040
05        FILLER       PICTURE X VALUE ""29"".           *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XXX VALUE ""20,081,212"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,241";"241,149"".        *AA040
05        FILLER       PICTURE X(014) VALUE              *AA040
                       "DISCOUNT RATE:".                 *AA040
05        FILLER       PICTURE XXX VALUE ""20,081,075"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XX VALUE ""30,241"".      *AA040
05        FILLER       PICTURE XXX VALUE ""20,081,133"". *AA040
05        FILLER       PICTURE X VALUE ""29"".           *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,243";"243,149"".        *AA040
05        FILLER       PICTURE XXX VALUE ""20,078,080"". *AA040
05        FILLER       PICTURE X(6) VALUE                *AA040
                       ""040,075,241";"241,149"".        *AA040
05        FILLER       PICTURE X(001) VALUE "A".         *AA040
05        FILLER       PICTURE XXX VALUE ""20,078,081"". *AA040
05        FILLER       PICTURE X(006) VALUE "ITEM  ".    *AA040
05        FILLER       PICTURE XXX VALUE ""20,078,098"". *AA040
05        FILLER       PICTURE X(008) VALUE "ORDERED ".  *AA040
05        FILLER       PICTURE XXX VALUE ""20,078,250"". *AA040
05        FILLER       PICTURE X(007) VALUE "DELIV. ".   *AA040
05        FILLER       PICTURE XXX VALUE ""20,078,195"". *AA040
05        FILLER       PICTURE X(006) VALUE "OUTST.".    *AA040
05        FILLER       PICTURE XXX VALUE ""20,078,202"". *AA040
05        FILLER       PICTURE X(035) VALUE              *AA040
```

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```
                    "REMARKS                              ".          *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,080"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,124"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,109"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,094"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,076"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,242"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,249"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,241";"241,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,095"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,194"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,197"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,201"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,094,148"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,093,080"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,093,124"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,093,109"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,093,094"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,093,076"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
         05         FILLER         PICTURE XXX VALUE ""20,093,242"".  *AA040
         05         FILLER         PICTURE X VALUE ""29"".            *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,243";"243,149"".         *AA040
         05         FILLER         PICTURE XXX VALUE ""20,093,249"".  *AA040
         05         FILLER         PICTURE X(6) VALUE                 *AA040
                                   ""040,075,241";"241,149"".         *AA040
         05         FILLER         PICTURE XX VALUE ""30,241"".       *AA040
```

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```
05          FILLER        PICTURE XXX VALUE ""20,093,095"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,093,194"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,093,197"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,093,201"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,093,148"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,080"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,124"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,109"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,094"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,076"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,242"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,249"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,241";"241,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,095"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,194"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,197"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,201"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,079,148"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XXX VALUE ""20,108,080"". *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
05          FILLER        PICTURE XX VALUE ""30,241"".      *AA040
05          FILLER        PICTURE XXX VALUE ""20,108,124"". *AA040
05          FILLER        PICTURE X VALUE ""29"".           *AA040
05          FILLER        PICTURE X(6) VALUE               *AA040
                          ""040,075,243";"243,149"".        *AA040
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05            FILLER        PICTURE XXX VALUE ""20,244,213"". *AA040
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                           "ORDERS (NEXT) : '8',".         *AA040
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                             "MENU : '1', CUSTOMER LIST :".      *AA040
   05          FILLER        PICTURE XXX VALUE ""20,245,127"".  *AA040
   05          FILLER        PICTURE X(022) VALUE               *AA040
                             "'2', CUST. HIST : '3',".           *AA040
   05          FILLER        PICTURE XXX VALUE ""20,245,228"".  *AA040
   05          FILLER        PICTURE X(017) VALUE               *AA040
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   05          FILLER        PICTURE X(017) VALUE               *AA040
                             "SCREEN DOC : '=',".                *AA040
   05          FILLER        PICTURE XXX VALUE ""20,246,244"".  *AA040
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                             "DATA EL. DOC : '$'".               *AA040
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   05          FILLER        PICTURE X(6) VALUE                 *AA040
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   05          S24002        PICTURE X(072) VALUE SPACE.        *AA040
02             0030-MESSO4   REDEFINES 0030-MESSO1.             *AA040
   03          0030-CX       PICTURE X OCCURS 2150.             *AA040
02             0030-MESSV.                                      *AA040
   03          FILLER        PICTURE XXX VALUE ""40,213,13"".   *AA040
   03          0030-MESSO2.                                     *AA040
      05       S03034        PICTURE X(008) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S03063        PICTURE X(003) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S05009        PICTURE X(040) VALUE SPACE.        *AA040
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      05       S05052        PICTURE X(020) VALUE SPACE.        *AA040
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      05       S05074        PICTURE X(005) VALUE SPACE.        *AA040
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      05       S07018        PICTURE X(025) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S07061        PICTURE X(008) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S10003        PICTURE X(001) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S10007        PICTURE X(003) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S10016        PICTURE X(002) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S10026        PICTURE X(002) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S10035        PICTURE X(002) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S10042        PICTURE X(035) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S11003        PICTURE X(001) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S11007        PICTURE X(003) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S11016        PICTURE X(002) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S11026        PICTURE X(002) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S11035        PICTURE X(002) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S11042        PICTURE X(035) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S12003        PICTURE X(001) VALUE SPACE.        *AA040
      05       FILLER        PICTURE X VALUE ""06"".            *AA040
      05       S12007        PICTURE X(003) VALUE SPACE.        *AA040
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05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S12016        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S12026        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S12035        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S12042        PICTURE X(035) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S13003        PICTURE X(001) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S13007        PICTURE X(003) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S13016        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S13026        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S13035        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S13042        PICTURE X(035) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S14003        PICTURE X(001) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S14007        PICTURE X(003) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S14016        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S14026        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S14035        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S14042        PICTURE X(035) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S15003        PICTURE X(001) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S15007        PICTURE X(003) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S15016        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S15026        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S15035        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S15042        PICTURE X(035) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S16003        PICTURE X(001) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S16007        PICTURE X(003) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S16016        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S16026        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S16035        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S16042        PICTURE X(035) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S17003        PICTURE X(001) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S17007        PICTURE X(003) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S17016        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S17026        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S17035        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S17042        PICTURE X(035) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S18003        PICTURE X(001) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S18007        PICTURE X(003) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S18016        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
05        S18026        PICTURE X(002) VALUE SPACE.    *AA040
05        FILLER        PICTURE X VALUE ""06"".        *AA040
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        05        S18035      PICTURE X(002) VALUE SPACE.      *AA040
        05        FILLER      PICTURE X VALUE ""06"".          *AA040
        05        S18042      PICTURE X(035) VALUE SPACE.      *AA040
        05        FILLER      PICTURE X VALUE ""06"".          *AA040
        05        S20022      PICTURE X(001) VALUE SPACE.      *AA040
        05        FILLER      PICTURE X VALUE ""06"".          *AA040
        05        S20033      PICTURE X(001) VALUE SPACE.      *AA040
      03        0030-MESSO3   REDEFINES 0030-MESSO2.           *AA040
        05        0030-CP     PICTURE X OCCURS 0616.           *AA040
     02        0030-MESSF.                                     *AA040
      05        FILLER      PICTURE XX VALUE ""40,214"".        *AA040
      05        FILLER      PICTURE XXX VALUE ""20,094,128"".   *AA040
      05        FILLER      PICTURE XX VALUE ""40,213"".        *AA040
   01           INPUT-0030.                                    *AA042
     05        FILLER      PICTURE X(065).                     *AA042
     05        R20033      PICTURE X(1).                       *AA042
     05        R03034      PICTURE X(8).                       *AA042
     05        R03063      PICTURE X(3).                       *AA042
     05        R05009      PICTURE X(40).                      *AA042
     05        R05052      PICTURE X(20).                      *AA042
     05        R05074      PICTURE X(5).                       *AA042
     05        R06016      PICTURE X(30).                      *AA042
     05        R06061      PICTURE X(6).                       *AA042
     05        R07018      PICTURE X(25).                      *AA042
     05        R07061      PICTURE X(8).                       *AA042
     05        R10003      PICTURE X(1).                       *AA042
     05        R10007      PICTURE X(3).                       *AA042
     05        R10016      PICTURE X(2).                       *AA042
     05        R10026      PICTURE X(2).                       *AA042
     05        R10035      PICTURE X(2).                       *AA042
     05        R10042      PICTURE X(35).                      *AA042
     05        R11003      PICTURE X(1).                       *AA042
     05        R11007      PICTURE X(3).                       *AA042
     05        R11016      PICTURE X(2).                       *AA042
     05        R11026      PICTURE X(2).                       *AA042
     05        R11035      PICTURE X(2).                       *AA042
     05        R11042      PICTURE X(35).                      *AA042
     05        R12003      PICTURE X(1).                       *AA042
     05        R12007      PICTURE X(3).                       *AA042
     05        R12016      PICTURE X(2).                       *AA042
     05        R12026      PICTURE X(2).                       *AA042
     05        R12035      PICTURE X(2).                       *AA042
     05        R12042      PICTURE X(35).                      *AA042
     05        R13003      PICTURE X(1).                       *AA042
     05        R13007      PICTURE X(3).                       *AA042
     05        R13016      PICTURE X(2).                       *AA042
     05        R13026      PICTURE X(2).                       *AA042
     05        R13035      PICTURE X(2).                       *AA042
     05        R13042      PICTURE X(35).                      *AA042
     05        R14003      PICTURE X(1).                       *AA042
     05        R14007      PICTURE X(3).                       *AA042
     05        R14016      PICTURE X(2).                       *AA042
     05        R14026      PICTURE X(2).                       *AA042
     05        R14035      PICTURE X(2).                       *AA042
     05        R14042      PICTURE X(35).                      *AA042
     05        R15003      PICTURE X(1).                       *AA042
     05        R15007      PICTURE X(3).                       *AA042
     05        R15016      PICTURE X(2).                       *AA042
     05        R15026      PICTURE X(2).                       *AA042
     05        R15035      PICTURE X(2).                       *AA042
     05        R15042      PICTURE X(35).                      *AA042
     05        R16003      PICTURE X(1).                       *AA042
     05        R16007      PICTURE X(3).                       *AA042
     05        R16016      PICTURE X(2).                       *AA042
     05        R16026      PICTURE X(2).                       *AA042
     05        R16035      PICTURE X(2).                       *AA042
     05        R16042      PICTURE X(35).                      *AA042
     05        R17003      PICTURE X(1).                       *AA042
     05        R17007      PICTURE X(3).                       *AA042
     05        R17016      PICTURE X(2).                       *AA042
     05        R17026      PICTURE X(2).                       *AA042
     05        R17035      PICTURE X(2).                       *AA042
     05        R17042      PICTURE X(35).                      *AA042
     05        R18003      PICTURE X(1).                       *AA042
     05        R18007      PICTURE X(3).                       *AA042
     05        R18016      PICTURE X(2).                       *AA042
     05        R18026      PICTURE X(2).                       *AA042
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      05              R18035      PICTURE X(2).           *AA042
      05              R18042      PICTURE X(35).          *AA042
      05              R20022      PICTURE X(1).           *AA042
      05              FILLER      PICTURE X(70).          *AA042
 01                   0030-MESSI  REDEFINES INPUT-0030.   *AA042
      05              0030-CA     PICTURE X OCCURS 0687.  *AA042
 01                   INPUT-SCREEN-FIELDS REDEFINES INPUT-0030.  *AA045
   02                 I-0030.                             *AA045
        05            FILLER      PICTURE X(065).         *AA045
        05            I-0030-CHOIX PICTURE X.             *AA045
        05            I-0030-MATE  PICTURE X(8).          *AA045
        05            I-0030-RELEA PICTURE X(3).          *AA045
        05            I-0030-RUE   PICTURE X(40).         *AA045
        05            I-0030-VILLE PICTURE X(20).         *AA045
        05            I-0030-COPOS PICTURE X(5).          *AA045
        05            I-0030-REFCLI PICTURE X(30).        *AA045
        05            I-0030-DATE  PICTURE X(6).          *AA045
        05            I-0030-CORRES PICTURE X(25).        *AA045
        05            E-0030-REMIS.                       *AA045
          10          I-0030-REMIS  PICTURE S9(4)V99.     *AA045
          10          FILLER      PICTURE X(2).           *AA045
        05            J-0030-LINE  OCCURS 9.              *AA045
          10          FILLER      PICTURE X(45).          *AA045
        05            I-0030-EDIT  PICTURE X.             *AA045
        05            FILLER      PICTURE X(70).          *AA045
 01                   OUTPUT-0030.                        *AA049
   05                 T20033      PICTURE X(1).           *AA049
   05                 T01004      PICTURE X(8).           *AA049
   05                 T01015      PICTURE X(5).           *AA049
   05                 T01060      PICTURE X(10).          *AA049
   05                 T01071      PICTURE X(8).           *AA049
   05                 T03018      PICTURE X(5).           *AA049
   05                 T03034      PICTURE X(8).           *AA049
   05                 T03063      PICTURE X(3).           *AA049
   05                 T04013      PICTURE X(50).          *AA049
   05                 T05009      PICTURE X(40).          *AA049
   05                 T05052      PICTURE X(20).          *AA049
   05                 T05074      PICTURE X(5).           *AA049
   05                 T06016      PICTURE X(30).          *AA049
   05                 T06061      PICTURE X(6).           *AA049
   05                 T07018      PICTURE X(25).          *AA049
   05                 T07061      PICTURE X(8).           *AA049
   05                 T10003      PICTURE X(1).           *AA049
   05                 T10007      PICTURE X(3).           *AA049
   05                 T10016      PICTURE X(2).           *AA049
   05                 T10026      PICTURE X(2).           *AA049
   05                 T10035      PICTURE X(2).           *AA049
   05                 T10042      PICTURE X(35).          *AA049
   05                 T11003      PICTURE X(1).           *AA049
   05                 T11007      PICTURE X(3).           *AA049
   05                 T11016      PICTURE X(2).           *AA049
   05                 T11026      PICTURE X(2).           *AA049
   05                 T11035      PICTURE X(2).           *AA049
   05                 T11042      PICTURE X(35).          *AA049
   05                 T12003      PICTURE X(1).           *AA049
   05                 T12007      PICTURE X(3).           *AA049
   05                 T12016      PICTURE X(2).           *AA049
   05                 T12026      PICTURE X(2).           *AA049
   05                 T12035      PICTURE X(2).           *AA049
   05                 T12042      PICTURE X(35).          *AA049
   05                 T13003      PICTURE X(1).           *AA049
   05                 T13007      PICTURE X(3).           *AA049
   05                 T13016      PICTURE X(2).           *AA049
   05                 T13026      PICTURE X(2).           *AA049
   05                 T13035      PICTURE X(2).           *AA049
   05                 T13042      PICTURE X(35).          *AA049
   05                 T14003      PICTURE X(1).           *AA049
   05                 T14007      PICTURE X(3).           *AA049
   05                 T14016      PICTURE X(2).           *AA049
   05                 T14026      PICTURE X(2).           *AA049
   05                 T14035      PICTURE X(2).           *AA049
   05                 T14042      PICTURE X(35).          *AA049
   05                 T15003      PICTURE X(1).           *AA049
   05                 T15007      PICTURE X(3).           *AA049
   05                 T15016      PICTURE X(2).           *AA049
   05                 T15026      PICTURE X(2).           *AA049
   05                 T15035      PICTURE X(2).           *AA049
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    05           T15042     PICTURE X(35).              *AA049
    05           T16003     PICTURE X(1).               *AA049
    05           T16007     PICTURE X(3).               *AA049
    05           T16016     PICTURE X(2).               *AA049
    05           T16026     PICTURE X(2).               *AA049
    05           T16035     PICTURE X(2).               *AA049
    05           T16042     PICTURE X(35).              *AA049
    05           T17003     PICTURE X(1).               *AA049
    05           T17007     PICTURE X(3).               *AA049
    05           T17016     PICTURE X(2).               *AA049
    05           T17026     PICTURE X(2).               *AA049
    05           T17035     PICTURE X(2).               *AA049
    05           T17042     PICTURE X(35).              *AA049
    05           T18003     PICTURE X(1).               *AA049
    05           T18007     PICTURE X(3).               *AA049
    05           T18016     PICTURE X(2).               *AA049
    05           T18026     PICTURE X(2).               *AA049
    05           T18035     PICTURE X(2).               *AA049
    05           T18042     PICTURE X(35).              *AA049
    05           T20022     PICTURE X(1).               *AA049
    05           T23002     PICTURE X(75).              *AA049
    05           T24002     PICTURE X(72).              *AA049
01           OUTPUT-SCREEN-FIELDS REDEFINES OUTPUT-0030.   *AA050
  02           O-0030.                                  *AA050
    05         O-0030-CHOIX  PICTURE X.                 *AA050
    05         O-0030-PROGE  PICTURE X(8).              *AA050
    05         O-0030-SESSI  PICTURE X(5).              *AA050
    05         O-0030-DATEM  PICTURE X(10).             *AA050
    05         O-0030-HEURE  PICTURE X(8).              *AA050
    05         O-0030-NUCOM  PICTURE 9(5).              *AA050
    05         O-0030-MATE   PICTURE X(8).              *AA050
    05         O-0030-RELEA  PICTURE X(3).              *AA050
    05         O-0030-RAISOC PICTURE X(50).             *AA050
    05         O-0030-RUE    PICTURE X(40).             *AA050
    05         O-0030-VILLE  PICTURE X(20).             *AA050
    05         O-0030-COPOS  PICTURE X(5).              *AA050
    05         O-0030-REFCLI PICTURE X(30).             *AA050
    05         O-0030-DATE   PICTURE X(6).              *AA050
    05         O-0030-CORRES PICTURE X(25).             *AA050
    05         F-0030-REMIS.                            *AA050
      10       O-0030-REMIS  PICTURE -(04)9,9(02).      *AA050
    05         P-0030-LINE   OCCURS 9.                  *AA050
      10       FILLER        PICTURE X(45).             *AA050
    05         O-0030-EDIT   PICTURE X.                 *AA050
    05         O-0030-MESSA  PICTURE X(75).             *AA050
    05         O-0030-ERMS.                             *AA050
      10       FILLER        OCCURS 1.                  *AA050
        15     O-0030-ERMSG1 PICTURE X(72).             *AA050
01           REPEAT-LINE.                               *AA050
  02         I-0030-LINE.                               *AA050
    05       I-0030-CODMVT PICTURE X.                   *AA050
    05       I-0030-FOURNI PICTURE X(3).                *AA050
    05       E-0030-QTMAC.                              *AA050
      10     I-0030-QTMAC  PICTURE 99.                  *AA050
    05       E-0030-QTMAL.                              *AA050
      10     I-0030-QTMAL  PICTURE 99.                  *AA050
    05       E-0030-QTMAR.                              *AA050
      10     I-0030-QTMAR  PICTURE 99.                  *AA050
    05       I-0030-INFOR  PICTURE X(35).               *AA050
  02         O-0030-LINE.                               *AA050
    05       O-0030-CODMVT PICTURE X.                   *AA050
    05       O-0030-FOURNI PICTURE X(3).                *AA050
    05       F-0030-QTMAC.                              *AA050
      10     O-0030-QTMAC  PICTURE Z(01)9.              *AA050
    05       F-0030-QTMAL.                              *AA050
      10     O-0030-QTMAL  PICTURE Z(01)9.              *AA050
    05       F-0030-QTMAR.                              *AA050
      10     O-0030-QTMAR  PICTURE Z(01)9.              *AA050
    05       O-0030-INFOR  PICTURE X(35).               *AA050
```

6.4. DESCRIPTION OF VALIDATION AREAS

<u>DESCRIPTION OF VALIDATION AREAS</u>

The validation processing part of the program is always generated in the WORKING-STORAGE SECTION. It includes all the work areas necessary for the generated validation processing.

<u>NUMERIC FIELDS OF THE SCREEN</u>

The 'NUMERIC-FIELDS' level is generated when the screen includes at least one variable Data Element.

Field '9-scrn-delco' (scrn = last 4 characters of the screen code) is generated for each numeric Data Element. It contains the breakdown of the Data Element's VALUE in 'seedd' where:

s = ' ' non-signed Data Element.

'+' signed Data Element.

ee = number of digits in the integer part of the Data Element.

dd = number of digits in the decimal part of the Data Element.

ERROR MESSAGE

The 'ERROR-MESS' level, which corresponds to the description of the error
message, is always generated and contains:

. A table with the attributes of the variable fields (for the dynamic
  modification),

. The error message,

. Cursor positioning on the erroneous field.

T-POSIT and 0030-MESSF

T-POSIT is a table which correlates the PACBASE error array and the position
of the fields.

0030-MESSF is used for the dynamic positioning of the cursor in case of error.

0030-MPRIOR

This field contains the first transaction message.

MESSAGE-LENGTH

This field describes the message (total length, length of fixed and variable fields,
logoff message length, etc.).

<u>VALIDATION VARIABLES</u>

The 'VALIDATION-TABLE-FIELDS' level is generated if there is at least one variable data element (NATURE = 'V') used on the screen.

DE-ERR : memorizes the presence and/or status of each Data Element of the screen.

A position in this table (coded ER-scrn-delco) is associated with each Data Element of the screen. This is generated at the '05' level ('scrn' = last four characters of the screen code).

Depending on the stages of validation, this position can be set to the following values:

> .0 Data Element absent.
> .1 Data Element present.
> .2 Invalid absence of data element.
> .4 Erroneous class.
> .5 Invalid content.

This table of error positions is structured according to the categories defined on the screen and the group data element in the following manner:

A group level for the Data Elements from the beginning of the screen is systematically generated in the form of:

> ER-nn-BEGIN.

For a repetitive Data Element defining a repetitive area of the screen (data element on the screen with NATURE = 'R'), the generation of the error positions is as follows:

> .03 ES-scrn-LINE OCCURS 9.
> .05 FILLER PICTURE X(0004).

In this example:

> LINE is the code of the Data Element with NATURE = 'R' (see above),
> 9   is the number of repetitions,
> 0004 is the number of Data Elements in the repetitive category.

After the table of errors, there is an area which will contain the error positions of the Data Elements from the repetitive category. This area is used to position the errors for each of these data elements, with each occurrence.

    .02 ER-nn-LINE.

    .05 ER-nn-CODMVT PICTURE X.

    .05 ER-nn-FOURNI PICTURE X.
    etc.

For a repetitive Data Element whose NATURE is other than 'R', the generation in the table of error positions does not provide the description of the sample item, but does provide the following:

    .05 FILLER OCCURS 2.

    .10 ER-nn-LREF1 PICTURE X.

A group level for the Data Elements from the screen-bottom category is generated using a Data Element whose NATURE = 'Z', which contains the error positions of Data Elements belonging to that category:

    .03 ER-nn-END.

    .05 ER-nn-EDIT PICTURE X.
    etc.

TT-DAT

The 'TT-DAT' level is generated if a variable Data Element (NATURE = 'V') contains a 'date' format. It is used in sub-function F8120-M for date formatting purposes.

LEAP-YEAR

The 'LEAP-YEAR' level is generated if a variable Data Element (NATURE = 'V') contains a 'date' format (always generated with CICS). It is used in F81-ER to determine whether or not the year is a leap year.

USERS-ERROR

The 'USERS-ERROR' level is always generated, and it contains:

XEMKY: Table position used to build the key, including:

'XPROGR' Name of the program or dialogue,
'XERCD' Error number and type of error,

T-XEMKY: Table of errors, corresponding to the number of error messages on the screen (default value = 1).

<u>INDEXES</u>

The 'INDEXES' level is always generated. It includes:

K01, K02, K03, K04
          Indexes for automatic numeric class.

K50R, K50L, K50M
          Indexes associated with the table of user errors (the value assigned to
          K50M directly relates to the number of vertical repetitions of Data
          Element 'ERMSG' in the screen description).

5-dd00-LTH
          Length of longest Segment of the Data Structure (common part +
          specific part; 'dd' = code of the Data Structure).

5-ddss-LTH
          Length of the Segment without the common part (not generated for
          the common part, 'dd00'; 'ddss' = code of the Segment).

5-ddss-LTHV
          Length of the Data Structure Segment including the common part (not
          generated for the common part, 'dd00'; 'ddss' = code of the Segment).

LTH Calculation area used during access to files with a Table or VSAM
          ORGANIZATION.

KEYLTH
          Calculation area of the key used during access to files with a VSAM
          ORGANIZATION.

5-scrn-LENGTH
          Area containing the length of the communication area (scrn = last
          four char. of screen code).

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NUMERIC-VALIDATION-FIELDS

The 'NUMERIC-VALIDATION-FIELDS' level is generated if there is at least one variable numeric field on the screen. It contains the work areas necessary for analyzing and formatting numeric Data Elements on the screen (refer to subchapter "F81 : CALLED VALIDATION FUNCTIONS").

DESCRIPTION OF THE ERROR MESSAGE FILE

The error message file is described in the FILE SECTION if its
ORGANIZATION ='V'. Otherwise, it is described in the WORKING-
STORAGE SECTION.

The EM00 level, corresponding to the error message file description, is
systematically generated.

You may replace this description if you generate a description containing fields
which conform to the coding used in the PROCEDURE DIVISION (EM00-
APPLI,EM00-PROGR, ..).

```
   01              NUMERIC-FIELDS.                               *AA050
     05            9-0030-REMIS  PICTURE X(5) VALUE "+0402".     *AA050
     05            9-0030-QTMAC  PICTURE X(5) VALUE " 0200".     *AA050
     05            9-0030-QTMAL  PICTURE X(5) VALUE " 0200".     *AA050
     05            9-0030-QTMAR  PICTURE X(5) VALUE " 0200".     *AA050
   01              ERROR-MESS.                                   *AA060
     02            ERROR-MESSO1.                                 *AA060
       05          FILLER        PICTURE XX VALUE ""40,214"".    *AA060
       05          X-ATT1.                                       *AA060
         10        FILLER        PICTURE XXX VALUE ""20,244,112"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,128,125"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,128,091"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,092,126"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,092,218"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,092,137"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,109,076"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,109,075"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,081,241"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,081,075"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,094,080"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,094,109"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,094,076"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,094,249"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,241";"241,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,094,194"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,094,201"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,093,080"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,093,109"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,093,076"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,093,249"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,241";"241,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,093,194"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,093,201"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
                                 ""040,075,243";"243,149"".      *AA060
         10        FILLER        PICTURE XXX VALUE ""20,079,080"". *AA060
         10        FILLER        PICTURE X(6) VALUE              *AA060
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                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,079,109"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,079,076"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,079,249"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,241";"241,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,079,194"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,079,201"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,108,080"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,108,109"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,108,076"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,108,249"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,241";"241,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,108,194"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,108,201"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,097,080"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,097,109"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,097,076"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,097,249"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,241";"241,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,097,194"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,097,201"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,076,080"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,076,109"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,076,076"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,076,249"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,241";"241,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,076,194"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,076,201"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,098,080"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,098,109"".  *AA060
        10          FILLER       PICTURE X(6) VALUE                 *AA060
                                 ""040,075,243";"243,149"".        *AA060
        10          FILLER       PICTURE XXX VALUE ""20,098,076"".  *AA060
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       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,098,249"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,241";"241,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,098,194"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,098,201"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,241,080"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,241,109"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,241,076"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,241,249"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,241";"241,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,241,194"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,241,201"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,242,080"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,242,109"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,242,076"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,242,249"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,241";"241,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,242,194"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,242,201"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,244,245"". *AA060
       10        FILLER        PICTURE X(6) VALUE              *AA060
                              ""040,075,243";"243,149"".       *AA060
     05          X-ATT2        REDEFINES X-ATT1.               *AA060
       10        X-ATT3        OCCURS 065.                     *AA060
         15      X-ATPC        PICTURE XXX.                    *AA060
         15      X-ATTR.                                       *AA060
           20    FILLER        PICTURE XX.                     *AA060
           20    X-ATTRI       PICTURE X.                      *AA060
           20    FILLER        PICTURE X.                      *AA060
           20    X-ATTRP       PICTURE X.                      *AA060
           20    FILLER        PICTURE X.                      *AA060
     05          X-ERMSBLANC.                                  *AA060
       10        FILLER        PICTURE XXX VALUE ""20,248,080"". *AA060
       10        FILLER        PICTURE X(072) VALUE SPACE.     *AA060
     05          X-ERMS.                                       *AA060
       10        FILLER        PICTURE XXX VALUE ""20,248,080"". *AA060
       10        FILLER        PICTURE X(072).                 *AA060
     05          X-ERMS1       REDEFINES X-ERMS.               *AA060
       10        X-ERMS2       OCCURS 01.                      *AA060
         15      FILLER        PICTURE XXX.                    *AA060
         15      O-0030-ERMSG  PICTURE X(072).                 *AA060
   02            ERROR-MESSF.                                  *AA060
     05          FILLER        PICTURE XX VALUE ""40,214"".    *AA060
     05          X-ATPC1       PICTURE XXX.                    *AA060
     05          FILLER        PICTURE X VALUE ""19"".         *AA060
     05          FILLER        PICTURE XX VALUE ""40,213"".    *AA060
 01              0030-MPRIOR   PICTURE X(80).                  *AA076
 01              MESSAGE-LENGTH.                               *AA100
   05            0030-LENGTH   PICTURE 9(4) VALUE 2776.        *AA100
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   05             MESS-LENGF   PICTURE 9(4) VALUE 2150.        *AA100
   05             0030-XLOMES  PICTURE 9(4) VALUE 0616.        *AA100
   05             MESS-LENGV   PICTURE 9(4) VALUE 0619.        *AA100
   05             0030-LMESSF  PICTURE 9(4) VALUE 0007.        *AA100
   05             0030-XLOUT   PICTURE 9(4) VALUE 0008.        *AA100
   05             ERROR-LENGTH PICTURE 9(4) VALUE 0668.        *AA100
   05             ERROR-LENGF  PICTURE 9(4) VALUE 0737.        *AA100
01                VALIDATION-TABLE-FIELDS.                     *AA150
  02              DE-ERR.                                      *AA150
    05            DE-ER        PICTURE X OCCURS 065.           *AA150
  02              DE-E         REDEFINES DE-ERR.               *AA150
   03             ER-0030-BEGIN.                               *AA150
     05           ER-0030-CHOIX PICTURE X.                     *AA150
     05           ER-0030-MATE  PICTURE X.                     *AA150
     05           ER-0030-RELEA PICTURE X.                     *AA150
     05           ER-0030-RUE   PICTURE X.                     *AA150
     05           ER-0030-VILLE PICTURE X.                     *AA150
     05           ER-0030-COPOS PICTURE X.                     *AA150
     05           ER-0030-REFCLI PICTURE X.                    *AA150
     05           ER-0030-DATE  PICTURE X.                     *AA150
     05           ER-0030-CORRES PICTURE X.                    *AA150
     05           ER-0030-REMIS PICTURE X.                     *AA150
   03             PS-30-LINE    OCCURS 9.                      *AA150
     05           FILLER       PICTURE X(0006).                *AA150
   03             ER-0030-END.                                 *AA150
     05           ER-0030-EDIT  PICTURE X.                     *AA150
  02              ER-0030-LINE.                                *AA150
    05            ER-0030-CODMVT PICTURE X.                    *AA150
    05            ER-0030-FOURNI PICTURE X.                    *AA150
    05            ER-0030-QTMAC PICTURE X.                     *AA150
    05            ER-0030-QTMAL PICTURE X.                     *AA150
    05            ER-0030-QTMAR PICTURE X.                     *AA150
    05            ER-0030-INFOR PICTURE X.                     *AA150
01                TT-DAT.                                      *AA200
  05              T-DAT        PICTURE X OCCURS 5.             *AA200
01                LEAP-YEAR.                                   *AA200
  05              LEAP-FLAG    PICTURE X.                       *AA200
  05              LEAP-REM     PICTURE 99.                     *AA200
01                USERS-ERROR.                                 *AA200
  05              XEMKY.                                       *AA200
   10             XPROGR       PICTURE X(6).                   *AA200
   10             XERCD        PICTURE X(4).                   *AA200
  05              T-XEMKY      OCCURS 01.                      *AA200
   10             T-XPROGR     PICTURE X(6).                   *AA200
   10             T-XERCD      PICTURE X(4).                   *AA200
01                PACBASE-INDEXES COMPUTATIONAL-1.             *AA200
  05              K01          PICTURE S9(4).                  *AA200
  05              K02          PICTURE S9(4).                  *AA200
  05              K03          PICTURE S9(4).                  *AA200
  05              K04          PICTURE S9(4).                  *AA200
  05              K50R         PICTURE S9(4) VALUE ZERO.       *AA200
  05              K50L         PICTURE S9(4) VALUE ZERO.       *AA200
  05              K50M         PICTURE S9(4) VALUE +01.        *AA200
  05              IWP20L       PICTURE S9(4) VALUE ZERO.       *AA200
  05              IWP20R       PICTURE S9(4) VALUE ZERO.       *AA200
  05              IWP20M       PICTURE S9(4) VALUE +0009.      *AA200
  05              5-CD00-LTH   PICTURE S9(4) VALUE +0166.      *AA200
  05              5-CD05-LTH   PICTURE S9(4) VALUE +0157.      *AA200
  05              5-CD10-LTH   PICTURE S9(4) VALUE +0139.      *AA200
  05              5-CD20-LTH   PICTURE S9(4) VALUE +0001.      *AA200
  05              5-FO00-LTH   PICTURE S9(4) VALUE +0057.      *AA200
  05              5-FO10-LTH   PICTURE S9(4) VALUE +0057.      *AA200
  05              5-ME00-LTH   PICTURE S9(4) VALUE +0082.      *AA200
  05              5-CA00-LTH   PICTURE S9(4) VALUE +0147.      *AA200
  05              5-CD05-LTHV  PICTURE S9(4) VALUE +0166.      *AA200
  05              5-CD10-LTHV  PICTURE S9(4) VALUE +0148.      *AA200
  05              5-CD20-LTHV  PICTURE S9(4) VALUE +0010.      *AA200
  05              5-FO10-LTHV  PICTURE S9(4) VALUE +0057.      *AA200
  05              LTH          PICTURE S9(4) VALUE ZERO.       *AA200
  05              5-0030-LENGTH PICTURE S9(4) VALUE +0892.     *AA200
01                NUMERIC-VALIDATION-FIELDS.                   *AA200
  05              ZONUM1.                                      *AA200
   10             C1           PICTURE X OCCURS 27.            *AA200
  05              ZONUM2.                                      *AA200
   10             C2           OCCURS 18.                      *AA200
    15            C29          PICTURE S9.                     *AA200
  05              ZONUM9       REDEFINES ZONUM2 PICTURE 9(18). *AA200
```

VIP-TYPE PROGRAM   6
DESCRIPTION OF VALIDATION AREAS   4


```
05            NUMPIC.                                          *AA200
   10         SIGNE           PICTURE X.                       *AA200
   10         NBCHA           PICTURE 99.                      *AA200
   10         NBCHP           PICTURE 99.                      *AA200
05            C9              PICTURE S9.                      *AA200
05            C91             PICTURE X.                       *AA200
05            TPOINT          PICTURE X.                       *AA200
05            ZONUM3.                                          *AA200
   10         C3              PICTURE X OCCURS 18.             *AA200
05            ZONUM4          REDEFINES ZONUM3 PICTURE 9(18).  *AA200
05            ZONUM5          PICTURE S99 VALUE -10.           *AA200
05            ZONUM6          REDEFINES ZONUM5.                *AA200
   10         FILLER          PICTURE X.                       *AA200
   10         C4              PICTURE X.                       *AA200
```

6.5. F01 : INITIALIZATIONS

<u>F01 : INITIALIZATIONS</u>

The INITIALIZATIONS (F01) function is always generated.

It initializes the work areas.

It ensures, in the first program of the dialogue (PRIOR-TPR), the first RECEIVE
in an 80-position field.

This function triggers the procedure to be executed in case of error.

It ensures the branching to the physical display function after consultation of
HELP documentation (if a documentation HELP character is entered on the
Screen Definition screen).

```
*          ***********************************        DO0030
*          *                                 *        DO0030
*          *  INITIALIZATIONS                *        DO0030
*          *                                 *        DO0030
*          ***********************************        DO0030
 F01.                                                 DO0030
    EXIT.                                             DO0030
 F0110.                                               DO0030
    ACCEPT TIMCO FROM TIME.                           DO0030
    ACCEPT DATOR FROM DATE.                           DO0030
    MOVE ZERO TO CATX FT K50L.                        DO0030
    MOVE "1" TO ICF OCF SCR-ER.                       DO0030
    MOVE ZERO TO VALIDATION-TABLE-FIELDS.             DO0030
    MOVE ZERO TO 7-CD01-XMSTA 7-CD02-XMSTA.           DO0030
    MOVE SPACE TO CATM OPER OPERD CAT-ER.             DO0030
    MOVE SPACE TO TABLE-OF-ATTRIBUTES.                DO0030
    MOVE ZERO TO CONFIGURATIONS.                      DO0030
    MOVE SYMBOLIC-QUEUE TO 7-CD01-CTRAN.              DO0030
    IF      PROGR NOT = K-S0030-PROGR                 DO0030
       MOVE ZERO TO ICF.                              DO0030
    IF      PRIOR-TPR = SPACE                         DO0030
       MOVE ZERO TO ICF K-S0030-DOC                   DO0030
       RECEIVE 7-CD01 MESSAGE INTO 0030-MPRIOR NO DATA DO0030
          MOVE "1" TO IK.                             DO0030
    IF      PRIOR-TPR = SPACE                         DO0030
       PERFORM F81ES THRU F81ES-FN                    DO0030
       MOVE 7-CD01-XTERM TO K-S0030-XTERM.            DO0030
    MOVE SPACE TO O-0030.                             DO0030
    IF      ICF = ZERO                                DO0030
       PERFORM F8115 THRU F8115-FN.                   DO0030
    MOVE K-S0030-XTERM TO HE00-XTERM.                 DO0030
    IF      K-S0030-DOC = "2"                         DO0030
       OR  K-S0030-DOC = "3"                          DO0030
          MOVE "1" TO K-S0030-DOC                     DO0030
          GO TO F8Z05.                                DO0030
    MOVE "X" TO DE-AT (4, 011).                       DO0030
    MOVE SPACE TO O-0030-ERMSG (01).                  DO0030
    MOVE SPACE TO O-0030-ERMSG1 (01).                 DO0030
 F0110-FN.                                            DO0030
    EXIT.                                             DO0030
 F0160.                                               DO0030
    IF      ICF = ZERO                                DO0030
       MOVE "A" TO OPER                               DO0030
       GO TO F3999-ITER-FT.                           DO0030
 F0160-FN.                                            DO0030
    EXIT.                                             DO0030
 F01-FN.                                              DO0030
    EXIT.                                             DO0030
*         +----------------------------------+        P000
* LEVEL 10   I INIT. NUMBER OF LOADED ITEMS     I     P000
*         +----------------------------------+        P000
 F02CP.                                               P000
    MOVE IWP20M TO IWP20L.                            P100
 F02CP-FN.                                            P000
    EXIT.                                             P000
```

6.6. F05 : RECEPTION AND OPERATION CODE

<u>F05 : RECEPTION</u>

The RECEPTION (F05) function contains the conditions for all of the procedures which have to do with the 'RECEPTION' part of the program: from F05 to END-OF-RECEPTION (F45-FN).

The automatic functions in this part of the program are generated if there is at least one variable data element (NATURE = 'V') defined on the screen.

The F0510 sub-function contains the 'SCREEN RECEPTION' procedure, which is actually processed by the F81RE sub-function. The F81RE sub-function is called by a PERFORM, which facilitates any necessary modifications.

If an initialization character has been specified on the Screen Definition screen, it will be replaced by blanks (except when a branch to a "HELP" screen is executed).

The F0512 sub-function is generated if a documentation call has been entered on the Screen Definition screen. It initializes the fields that are necessary for branching to the "HELP" screen.

The F0520 sub-function is generated if a variable data element from the screen, or a special PFKEY data element, is defined as an Operation Code on the Screen Call of Elements.

The internal Operation Code 'OPER' is set according to the:

  - Value of the screen data element defined as an Operation Code (values
    specified with TYPE OF LINE = 'O' on the Data Element Description (-D)
    screen;
  - Value of the PFKEY data element (entered on the Screen Call of Elements (-CE)).

If an error is found in the value of the Operation Code, subsequent 'reception' procedures are not executed.

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```
*           ***********************************            DO0030
*           *                                 *            DO0030
*           *  RECEPTION                       *            DO0030
*           *                                 *            DO0030
*           ***********************************            DO0030
 F05.                                                      DO0030
     IF    ICF  =  ZERO                                    DO0030
        GO TO END-OF-RECEPTION.                            DO0030
 F0510.                                                    DO0030
     PERFORM F81RE THRU F81RE-FN.                          DO0030
     IF    ICF  =  ZERO                                    DO0030
        GO TO END-OF-RECEPTION.                            DO0030
     PERFORM F81ES THRU F81ES-FN.                          DO0030
     MOVE 7-CD01-XTERM TO K-S0030-XTERM.                   DO0030
     ADD 1 TO 7-CD01-XLOMES.                               DO0030
     MOVE 7-HT TO 0030-CA (7-CD01-XLOMES).                 DO0030
     MOVE ZERO TO K01 K02.                                 DO0030
 F0510-A.                                                  DO0030
     ADD 1 TO K01.                                         DO0030
     IF     K01  >  7-CD01-XLOMES                          DO0030
        GO TO F0510-C.                                     DO0030
 F0510-B.                                                  DO0030
     ADD 1 TO K02.                                         DO0030
     IF     K02  >  0030-XLOMES                            DO0030
        GO TO F0510-C.                                     DO0030
     IF     0030-CA (K01)  =  7-HT                         DO0030
        AND 0030-CP (K02) NOT  =  7-HT                     DO0030
           MOVE SPACE TO 0030-CP (K02)                     DO0030
           GO TO F0510-B.                                  DO0030
     IF     0030-CA (K01)  =  7-HT                         DO0030
        GO TO F0510-A.                                     DO0030
     IF     0030-CP (K02)  =  7-HT                         DO0030
        MOVE ZERO TO ICF                                   DO0030
        GO TO END-OF-RECEPTION.                            DO0030
     MOVE 0030-CA (K01) TO 0030-CP (K02)                   DO0030
     GO TO F0510-A.                                        DO0030
 F0510-C.                                                  DO0030
     PERFORM F8155 THRU F8155-FN.                          DO0030
     MOVE "A" TO OPER                                      DO0030
     MOVE SPACE TO OPERD.                                  DO0030
     PERFORM F8150 THRU F8150-FN.                          DO0030
     IF    K-S0030-ERCOD  =  ZERO                          DO0030
        EXAMINE I-0030 REPLACING ALL "-" BY SPACE.         DO0030
 F0510-FN.                                                 DO0030
     EXIT.                                                 DO0030
 F0512.                                                    DO0030
     IF    K-S0030-ERCOD NOT  =  ZERO                      DO0030
        NEXT SENTENCE                                      DO0030
     ELSE                                                  DO0030
        GO TO F0512-FN.                                    DO0030
     MOVE "2" TO K-S0030-DOC                               DO0030
     MOVE PROGE TO K-S0030-PROGE                           DO0030
     MOVE LIBRA TO K-S0030-LIBRA.                          DO0030
     IF    K-S0030-ERCOD NOT  =  SPACE                     DO0030
        MOVE "3" TO K-S0030-DOC.                           DO0030
     MOVE K-S0030-XTERM TO HE00-XTERM                      DO0030
     PERFORM F80-HELP-R THRU F80-FN                        DO0030
     MOVE HE00-SCREEN TO O-0030                            DO0030
     PERFORM F8130 THRU F8130-FN                           DO0030
     MOVE O-0030 TO HE00-SCREEN                            DO0030
     PERFORM F80-HELP-RW THRU F80-FN                       DO0030
     MOVE PRDOC TO 5-0030-PROGE K-S0030-PROHE              DO0030
     MOVE "O" TO OPER                                      DO0030
     GO TO F4040.                                          DO0030
 F0512-FN.                                                 DO0030
     EXIT.                                                 DO0030
*           ***********************************            DO0030
*           *                                 *            DO0030
*           *  VALIDATION OF OPERATION CODE    *            DO0030
*           *                                 *            DO0030
*           ***********************************            DO0030
 F0520.                                                    DO0030
     IF    I-0030-CHOIX  =  "1"                            DO0030
        MOVE "DO0000  " TO 5-0030-PROGE                    DO0030
        MOVE "O" TO OPER                                   DO0030
        GO TO F40-A.                                       DO0030
     IF    I-0030-CHOIX  =  "2"                            DO0030
```

```
            MOVE "DO0010  " TO 5-0030-PROGE                    DO0030
            MOVE "O" TO OPER                                   DO0030
            GO TO F40-A.                                       DO0030
        IF      I-0030-CHOIX  =  "3"                           DO0030
            MOVE "DO0020  " TO 5-0030-PROGE                    DO0030
            MOVE "O" TO OPER                                   DO0030
            GO TO F40-A.                                       DO0030
        IF      I-0030-CHOIX  =  "4"                           DO0030
            MOVE "DO0040  " TO 5-0030-PROGE                    DO0030
            MOVE "O" TO OPER                                   DO0030
            GO TO F40-A.                                       DO0030
        IF      I-0030-CHOIX  =  "5"                           DO0030
            MOVE "DO0050  " TO 5-0030-PROGE                    DO0030
            MOVE "O" TO OPER                                   DO0030
            GO TO F40-A.                                       DO0030
        IF      I-0030-CHOIX  =  "0"                           DO0030
            MOVE "DO0070  " TO 5-0030-PROGE                    DO0030
            MOVE "O" TO OPER                                   DO0030
            GO TO F40-A.                                       DO0030
        IF      I-0030-CHOIX  =  "7"                           DO0030
            MOVE "M" TO OPER                                   DO0030
            GO TO F0520-900.                                   DO0030
        IF      I-0030-CHOIX  =  "8"                           DO0030
            MOVE "S" TO OPER                                   DO0030
            GO TO F0520-900.                                   DO0030
        MOVE "5" TO ER-0030-CHOIX                              DO0030
        MOVE "4" TO SCR-ER                                     DO0030
        GO TO F3999-ITER-FT.                                   DO0030
    F0520-900.                                                 DO0030
        IF      OPER NOT  =  "A"                               DO0030
            AND OPER NOT  =  "M"                               DO0030
            AND OPER NOT  =  "O"                               DO0030
                GO TO F3999-ITER-FT.                           DO0030
    F0520-FN.                                                  DO0030
        EXIT.                                                  DO0030
    F05-FN.                                                    DO0030
        EXIT.                                                  DO0030
    *          +---------------------------------+            P000
    * LEVEL 10   I NO UPDATE ==> END OF RECEIVE     I          P000
    *          +---------------------------------+            P000
    F08BB.                                                     P000
        IF      OPER NOT  =  "M"                               P000
            NEXT SENTENCE                                      P000
        ELSE                                                   P000
            GO TO F08BB-FN.                                    P000
        GO TO F3999-ITER-FT.                                   P100
    F08BB-FN.                                                  P000
        EXIT.                                                  P000
```

6.7. F40 : END OF RECEPTION

F40: END-OF-RECEPTION PROCESSING

This function contains the procedures for the end-of-reception processing of the program. It is executed as long as no errors have been found.

Within this function, there are four sub-functions which correspond to four automatically generated procedures that are conditioned by the value of the Operation Code (OPER).

SET-UP KEYS FOR NEW DISPLAY (F4010)

This function is executed for a 'display' or an 'update' operation. The keys to the segments with no preceding segment, or those used in display, are given a value here.

Depending on the categories defined on the screen, the memorization of the access key for the display segment is found in:

    . F40A for the screen-top category.
    . F40R for the repetitive category.
    . F40Z for the screen-bottom category.

SET-UP KEYS FOR SCREEN PAGING (F4020)

This function is executed for a 'screen continuation' operation. It contains the memorization of the first key for the display of the screen continuation, if the segment is used in the repetitive category.

END OF TRANSACTION (F4030)

This function is executed for an end-of-transaction operation.

TRANSFER TO ANOTHER SCREEN (F4040)

This function is executed for a transfer to another screen operation.

```
    F40.                                                    DO0030
        IF      SCR-ER  >  "1"                              DO0030
            MOVE "A" TO OPER                                DO0030
            GO TO F40-FN.                                  DO0030
    F40-A.                                                  DO0030
        IF       OPERD NOT  =  SPACE                        DO0030
            MOVE OPERD TO OPER.                             DO0030
*        ***********************************               DO0030
*        *                                 *               DO0030
*        *  SET-UP KEYS FOR NEW DISPLAY    *               DO0030
*        *                                 *               DO0030
*        ***********************************               DO0030
    F4010.                                                 DO0030
        IF      OPER NOT  =  "A"                            DO0030
            AND NOT  =  "M"                                 DO0030
                GO TO F4010-FN.                            DO0030
    F40A.                                                  DO0030
        MOVE SPACES TO CD00-CLECD                          DO0030
        MOVE "B" TO CD00-COCARA                            DO0030
        MOVE CA00-NUCOM TO CD00-NUCOM                      DO0030
        MOVE CD00-CLECD TO K-ACD05-CLECD.                  DO0030
    F40A-FN.                                               DO0030
        EXIT.                                              DO0030
    F40R.                                                  DO0030
        MOVE J-0030-LINE (1) TO I-0030-LINE.               DO0030
        MOVE SPACES TO CD00-KEYCD                          DO0030
        MOVE "C" TO CD00-COCARA                            DO0030
        MOVE CA00-NUCOM TO CD00-NUCOM                      DO0030
        MOVE CD00-CLECD TO K-RCD10-CLECD (1).              DO0030
    F40R-FN.                                               DO0030
        EXIT.                                              DO0030
    F40Z.                                                  DO0030
        MOVE CA00-CLEME TO ME00-CLEME                      DO0030
        MOVE ME00-CLEME TO K-ZME00-CLEME.                  DO0030
    F40Z-FN.                                               DO0030
        EXIT.                                              DO0030
    F4010-FN.                                              DO0030
        EXIT.                                              DO0030
*        ***********************************               DO0030
*        *                                 *               DO0030
*        *  SET-UP KEYS FOR SCREEN PAGING  *               DO0030
*        *                                 *               DO0030
*        ***********************************               DO0030
    F4020.                                                 DO0030
        IF      OPER NOT  =  "S"                            DO0030
            GO TO F4020-FN.                                DO0030
        MOVE K-RCD10-CLECD (2) TO K-RCD10-CLECD (1).       DO0030
    F4020-FN.                                              DO0030
        EXIT.                                              DO0030
*        ***********************************               DO0030
*        *                                 *               DO0030
*        *  END OF TRANSACTION             *               DO0030
*        *                                 *               DO0030
*        ***********************************               DO0030
    F4030.                                                 DO0030
        IF      OPER NOT  =  "E"                            DO0030
            GO TO F4030-FN.                                DO0030
        MOVE K-S0030-XTERM TO HE00-XTERM                   DO0030
        PERFORM F80-HELP-D THRU F80-FN.                    DO0030
        MOVE SPACE TO NEXT-TPR                             DO0030
        MOVE 1 TO 7-CD02-XNDEST                            DO0030
        MOVE K-S0030-XTERM TO 7-CD02-XTERM                 DO0030
        MOVE 3 TO 7-CD02-XLOMES                            DO0030
        SEND 7-CD02 FROM 0030-MESSO WITH EGI AFTER ADVANCING 0 LINES.DO0030
    F4030-A.                                               DO0030
        EXIT PROGRAM.                                      DO0030
    F4030-FN.                                              DO0030
        EXIT.                                              DO0030
*        ***********************************               DO0030
*        *                                 *               DO0030
*        *  TRANSFER TO ANOTHER SCREEN     *               DO0030
*        *                                 *               DO0030
*        ***********************************               DO0030
    F4040.                                                 DO0030
        IF      OPER NOT  =  "O"                            DO0030
            GO TO F4040-FN.                                DO0030
        MOVE 5-0030-PROGE TO NEXT-TPR.                     DO0030
```

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```
       F4040-A.                                          DO0030
          EXIT PROGRAM.                                  DO0030
       F4040-FN.                                         DO0030
          EXIT.                                          DO0030
       F40-FN.                                           DO0030
          EXIT.                                          DO0030
       END-OF-RECEPTION.                                 DO0030
          EXIT.                                          DO0030
```

6.8. F70 : ERROR PROCESSING

<u>F70: ERROR PROCESSING - ATTRIBUTES POSITIONNING</u>

The ERROR PROCESSING (F70) function is always generated.

Sub-function F7010 contains:

. in F7010-A, testing of EN-PRR, positioning of the error attributes, access to the error message file, and coding of the error message on the screen.

. in F7010-B, testing of T-XEMKY, access to the error message file, and coding of the error message on the screen.

Sub-function F7020 is generated if at least one variable field exists on the Screen Call of Elements (-CE).

This sub-function positions the attributes of the fields on the screen in display.

NOTE: The positionning that is generated with the QUESTAR variant is different from that generated with the MULTI-SCREEN variant.

An 'invisible' field ('DARK' attribute) retains this attribute, even if it is erroneous (for ex., with passwords).

```
    F70.                                                     DO0030
        EXIT.                                                DO0030
    *          ***********************************           DO0030
    *          *                                 *           DO0030
    *          *   ERROR PROCESSING              *           DO0030
    *          *                                 *           DO0030
    *          ***********************************           DO0030
    F7010.                                                   DO0030
        MOVE ZERO TO K01 K02 K04                             DO0030
        MOVE 1 TO K03.                                       DO0030
        MOVE LIBRA TO EM00-LIBRA                             DO0030
        MOVE PROGR TO EM00-PROGR                             DO0030
        MOVE ZERO TO EM00-LINUM                              DO0030
        MOVE "H" TO EM00-ENTYP.                              DO0030
    F7010-A.                                                 DO0030
        IF      K02  =  INR                                  DO0030
           AND K03  <  IRR                                   DO0030
                 MOVE INA TO K02                             DO0030
                 ADD 1 TO K03.                               DO0030
        ADD 1 TO K01 K02.                                    DO0030
        IF      DE-ER (K01)  >  "1"                          DO0030
           OR      <  "0"                                    DO0030
                 MOVE "Y" TO DE-AT (4, K01)                  DO0030
                 MOVE "B" TO DE-AT (1, K01)                  DO0030
                 MOVE "N" TO DE-AT (2, K01)                  DO0030
                 MOVE "W" TO DE-AT (3, K01)                  DO0030
              IF K04  <  IER                                 DO0030
                 MOVE DE-ER (K01) TO EM00-ERTYP              DO0030
                 MOVE K02 TO EM00-ERCOD9                     DO0030
                 MOVE EM00-XEMKY TO EM00-ERMSG               DO0030
                 PERFORM F80-EM00-R THRU F80-FN              DO0030
                 ADD 1 TO K04                                DO0030
                 MOVE EM00-ERMSG TO O-0030-ERMSG1 (K04)      DO0030
                 MOVE EM00-ERMSG TO O-0030-ERMSG (K04).      DO0030
        IF      K01  <  INT                                  DO0030
           GO TO F7010-A.                                    DO0030
        MOVE ZERO TO K50R.                                   DO0030
    F7010-B.                                                 DO0030
        ADD 1 TO K50R                                        DO0030
        IF      K50R  >  K50L                                DO0030
           OR  K04 NOT  <  IER                               DO0030
                 GO TO F7010-FN.                             DO0030
        MOVE T-XEMKY (K50R) TO EM00-XEMKY EM00-ERMSG         DO0030
        PERFORM F80-EM00-R THRU F80-FN.                      DO0030
        ADD 1 TO K04                                         DO0030
        MOVE EM00-ERMSG TO O-0030-ERMSG1 (K04)               DO0030
        MOVE EM00-ERMSG TO O-0030-ERMSG (K04)                DO0030
        GO TO F7010-B.                                       DO0030
    F7010-FN.                                                DO0030
        EXIT.                                                DO0030
    *          ***********************************           DO0030
    *          *                                 *           DO0030
    *          *   POSITIONING OF ATTRIBUTES     *           DO0030
    *          *                                 *           DO0030
    *          ***********************************           DO0030
    F7020.                                                   DO0030
        MOVE ZERO TO TALLY                                   DO0030
        EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "Y".        DO0030
        IF      TALLY NOT  <  0065                           DO0030
             MOVE ZERO TO TALLY                              DO0030
             EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "Z".   DO0030
        IF      TALLY NOT  <  0065                           DO0030
             MOVE ZERO TO TALLY                              DO0030
             EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "X".   DO0030
        IF      TALLY NOT  <  0065                           DO0030
             MOVE ZERO TO TALLY.                             DO0030
        ADD 1 TO TALLY.                                      DO0030
        MOVE X-ATPC (TALLY) TO X-ATPC1.                      DO0030
        MOVE ZERO TO K01.                                    DO0030
        EXAMINE DE-ATT1 (1) REPLACING ALL "N" BY ""243""     DO0030
        EXAMINE DE-ATT1 (1) REPLACING ALL "B" BY ""241""     DO0030
        EXAMINE DE-ATT1 (1) REPLACING ALL "D" BY ""249""     DO0030
        EXAMINE DE-ATT1 (2) REPLACING ALL "N" BY SPACE       DO0030
        EXAMINE DE-ATT1 (2) REPLACING ALL "U" BY ""245""     DO0030
        EXAMINE DE-ATT1 (2) REPLACING ALL "B" BY ""246""     DO0030
        EXAMINE DE-ATT1 (2) REPLACING ALL "R" BY ""248"".    DO0030
    F7020-A.                                                 DO0030
```

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```
        ADD 1 TO K01.                                           DO0030
        IF     K01 > INT                                        DO0030
           GO TO F7020-FN.                                      DO0030
        IF     DE-AT (1, K01) NOT = SPACE                       DO0030
           AND X-ATTRI (K01) NOT = ""249""                      DO0030
              MOVE DE-AT (1, K01) TO X-ATTRI (K01).             DO0030
        IF     DE-AT (2, K01) NOT = SPACE                       DO0030
           MOVE DE-AT (2, K01) TO X-ATTRP (K01).                DO0030
        IF     DE-AT (2, K01) = SPACE                           DO0030
           AND X-ATTRP (K01) NOT = ""245""                      DO0030
           AND X-ATTRP (K01) NOT = ""246""                      DO0030
           AND X-ATTRP (K01) NOT = ""248""                      DO0030
              MOVE X-ATTRI (K01) TO X-ATTRP (K01).              DO0030
        GO TO F7020-A.                                          DO0030
    F7020-FN.                                                   DO0030
        EXIT.                                                   DO0030
    F70-FN.                                                     DO0030
        EXIT.                                                   DO0030
    END-OF-DISPLAY.                                             DO0030
        EXIT.                                                   DO0030
```

6.9. F8Z : DISPLAY AND END OF PROGRAM

DISPLAY AND END OF PROGRAM (F8Z)

The DISPLAY AND END-OF-PROGRAM (F8Z) function is always generated.

The F8Z05 sub-function is generated if a documentation Help character has been entered on the Screen Definition screen.

It ensures the memorization of screen fields in the backup file.

The F8Z10 sub-function only contains the 'PERFORM' of the F81SE and F81SM sub-functions, in order to facilitate possible modifications.

They send the screen through three 'SENDs':

  . Fixed content and display fields,

  . Variable fields,

  . Screen end.

The F8Z20 sub-function contains the end-of-program operations.

```
    F8Z.                                                      DO0030
        EXIT.                                                 DO0030
    F8Z05.                                                    DO0030
        IF      SCR-ER  =  "1"                                DO0030
            NEXT SENTENCE                                     DO0030
        ELSE                                                  DO0030
            GO TO F8Z05-FN.                                   DO0030
        IF      K-S0030-DOC NOT  =  "1"                       DO0030
            GO TO F8Z05-A.                                    DO0030
        MOVE K-S0030-ERCOD9 TO K01 K02.                       DO0030
        IF      K02  >  INR                                   DO0030
            COMPUTE K02  =  K01 + (INR - INA) * (IRR - 1).    DO0030
        IF      K02  <  1                                     DO0030
            OR  K02  >  INT                                   DO0030
                MOVE 1 TO K02.                                DO0030
        MOVE "X" TO DE-AT (4, K02)                            DO0030
        PERFORM F7020 THRU F7020-FN.                          DO0030
    F8Z05-A.                                                  DO0030
        MOVE K-S0030-XTERM TO HE00-XTERM.                     DO0030
        IF      K-S0030-DOC  =  "1"                           DO0030
            PERFORM F80-HELP-R THRU F80-FN                    DO0030
            MOVE HE00-SCREEN TO O-0030                        DO0030
            MOVE "0" TO K-S0030-DOC                           DO0030
            GO TO F8Z05-FN.                                   DO0030
        IF      K-S0030-DOC NOT  =  ZERO                      DO0030
            GO TO F8Z05-FN.                                   DO0030
        PERFORM F80-HELP-R THRU F80-FN.                       DO0030
        MOVE K-S0030-XTERM TO HE00-XTERM                      DO0030
        MOVE O-0030 TO HE00-SCREEN.                           DO0030
        IF      IK  =  "1"                                    DO0030
            PERFORM F80-HELP-W THRU F80-FN                    DO0030
        ELSE                                                  DO0030
            PERFORM F80-HELP-RW THRU F80-FN.                  DO0030
    F8Z05-FN.                                                 DO0030
        EXIT.                                                 DO0030
    *        ***********************************              DO0030
    *        *                                 *              DO0030
    *        *  DISPLAY                        *              DO0030
    *        *                                 *              DO0030
    *        ***********************************              DO0030
    F8Z10.                                                    DO0030
        IF      SCR-ER NOT  >  "1"                            DO0030
            AND DE-AT (4, 011)  =  "X"                        DO0030
                PERFORM F7020 THRU F7020-FN.                  DO0030
        PERFORM F8145 THRU F8145-FN.                          DO0030
        MOVE 1 TO 7-CD02-XNDEST                               DO0030
        MOVE K-S0030-XTERM TO 7-CD02-XTERM.                   DO0030
        IF      SCR-ER NOT  >  "1"                            DO0030
            MOVE PROGR TO K-S0030-PROGR                       DO0030
            PERFORM F8140 THRU F8140-FN                       DO0030
            PERFORM F81SE THRU F81SE-FN.                      DO0030
        IF      SCR-ER  >  "1"                                DO0030
            OR  K50L  >  ZERO                                 DO0030
                PERFORM F81SM THRU F81SM-FN.                  DO0030
        IF      7-SENDVAR  =  "1"                             DO0030
            MOVE MESS-LENGV TO 7-CD02-XLOMES                  DO0030
            SEND 7-CD02 FROM 0030-MESSV WITH ESI AFTER ADVANCING 0   DO0030
        LINES                                                 DO0030
                PERFORM F81ES THRU F81ES-FN.                  DO0030
        MOVE 0030-XLOUT TO 7-CD02-XLOMES                      DO0030
        SEND 7-CD02 FROM ERROR-MESSF WITH EGI AFTER ADVANCING 0 LINESDO0030
            PERFORM F81ES THRU F81ES-FN.                      DO0030
    F8Z10-G.                                                  DO0030
        EXIT.                                                 DO0030
    F8Z10-FN.                                                 DO0030
        EXIT.                                                 DO0030
    *        ***********************************              DO0030
    *        *                                 *              DO0030
    *        *  END OF  PROGRAM                *              DO0030
    *        *                                 *              DO0030
    *        ***********************************              DO0030
    F8Z20.                                                    DO0030
        MOVE PROGE TO NEXT-TPR.                               DO0030
    F8Z20-A.                                                  DO0030
        EXIT PROGRAM.                                         DO0030
    F8Z20-FN.                                                 DO0030
        EXIT.                                                 DO0030
```

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    F8Z-FN.   DO0030
       EXIT.   DO0030

6.10. F81 : PERFORMED VALIDATION FUNCTIONS

F81 : PERFORMED VALIDATIONS FUNCTIONS

The PERFORMED VALIDATIONS FUNCTIONS (F81) are always generated.

F81ER contains the abnormal end routine.

F81ES is called by a 'PERFORM' in order to check the return code after each 'SEND' or 'RECEIVE'.

F81RE is called by a PERFORM at the beginning of the program. It ensures the reception of the message.

F81SE and F81SM
are called by a 'PERFORM' in the Screen Display procedure:
F81SE sends the message if no error was found.
F81SM sends the message if there is an error.

F81UT stores the user's errors.

F8110 is generated when there is a numeric field on the screen. It contains the procedures which format the field to be validated in the work area, the numeric class validation, and the positioning of error messages, if required.

F8115 ensures the initialization of the output variable fields. It is performed in Function F0510 if the ICF indicator is equal to '0'.

F8120 is generated if at least one variable data element ('V') has a date format, or if an 'AD'-type operator is specified on the Procedural Code (-P) lines of the program (in this case, the F8120-ER and F8120-KO functions are not generated).

It also contains date formatting and validations.

F8130 is generated if a call for HELP documentation is entered on the Screen Definition screen. It prepares the field to be saved in the backup file.

F8145 transfers the message which has been formatted in the work areas (OUTPUT-
SCREEN-FIELDS) to the fields used for display.

F8150 checks the first character of each input field to detect either of the two
documentation Help characters (screen-level or field-level documentation).

F8155 transfers the message received into the work areas (INPUT-SCREEN-
FIELDS).

```
   F81.                                                      DO0030
      EXIT.                                                  DO0030
   *        **********************************               DO0030
   *        *                                *               DO0030
   *        *   ABNORMAL END PROCEDURE       *               DO0030
   *        *                                *               DO0030
   *        **********************************               DO0030
   F81ER.                                                    DO0030
      CALL "ABORT".                                          DO0030
   F81ER-FN.                                                 DO0030
      EXIT.                                                  DO0030
   F81ES.                                                    DO0030
      IF      7-CD01-XMSTA NOT  =  ZERO                      DO0030
          OR  7-CD02-XMSTA NOT  =  ZERO                      DO0030
              CALL "ABORT".                                  DO0030
   F81ES-FN.                                                 DO0030
      EXIT.                                                  DO0030
   F81RE.                                                    DO0030
      RECEIVE 7-CD01 MESSAGE INTO 0030-MESSI NO DATA         DO0030
           MOVE SPACE TO 0030-MESSI                          DO0030
           MOVE 7-CD01-XTERM TO K-S0030-XTERM                DO0030
           MOVE ZERO TO ICF.                                 DO0030
   F81RE-FN.                                                 DO0030
      EXIT.                                                  DO0030
   F81SE.                                                    DO0030
      MOVE MESS-LENGF TO 7-CD02-XLOMES                       DO0030
      SEND 7-CD02 FROM 0030-MESSO1 WITH ESI AFTER ADVANCING 0 LINESDO0030
           PERFORM F81ES THRU F81ES-FN.                      DO0030
   F81SE-FN.                                                 DO0030
      EXIT.                                                  DO0030
   F81SM.                                                    DO0030
      EXAMINE O-0030-ERMSG (01) REPLACING ALL SPACE BY ""19"". DO0030
      MOVE ERROR-LENGF TO 7-CD02-XLOMES                      DO0030
      SEND 7-CD02 FROM ERROR-MESSO1 WITH ESI AFTER ADVANCING 0 DO0030
      LINES                                                  DO0030
           PERFORM F81ES THRU F81ES-FN.                      DO0030
   F81SM-FN.                                                 DO0030
      EXIT.                                                  DO0030
   *        **********************************               DO0030
   *        *                                *               DO0030
   *        *   MEMORIZATION OF USER'S ERRORS *               DO0030
   *        *                                *               DO0030
   *        **********************************               DO0030
   F81UT.                                                    DO0030
      IF      K50L  <  K50M                                  DO0030
          ADD 1 TO K50L                                      DO0030
          MOVE XEMKY TO T-XEMKY (K50L).                      DO0030
      MOVE "E" TO CAT-ER.                                    DO0030
   F81UT-FN.                                                 DO0030
      EXIT.                                                  DO0030
   *        **********************************               DO0030
   *        *                                *               DO0030
   *        *   NUMERIC VALIDATION           *               DO0030
   *        *                                *               DO0030
   *        **********************************               DO0030
   F8110.                                                    DO0030
      MOVE ZERO TO TPOINT K01 K02 K03 ZONUM3 ZONUM2 C9 C91.  DO0030
   F8110-1.                                                  DO0030
      IF      K01  >  26                                     DO0030
          OR  K02  >  17                                     DO0030
              GO TO F8110-5.                                 DO0030
      ADD 1 TO K01.                                          DO0030
      IF      C1 (K01)  =  SPACE                             DO0030
          OR  C1 (K01)  =  "."                               DO0030
              GO TO F8110-1.                                 DO0030
      IF      C1 (K01) NOT  =  "-"                           DO0030
          AND C1 (K01) NOT  =  "+"                           DO0030
              GO TO F8110-2.                                 DO0030
      IF      C9 NOT  =  ZERO                                DO0030
          MOVE "5" TO DEL-ER                                 DO0030
          GO TO F8110-FN.                                    DO0030
      IF      K02  =  ZERO                                   DO0030
          MOVE "1" TO C91.                                   DO0030
      IF      C1 (K01)  =  "+"                               DO0030
          MOVE 1 TO C9                                       DO0030
          GO TO F8110-1.                                     DO0030
      IF      SIGNE  =  " "                                  DO0030
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```
              MOVE "5" TO DEL-ER                              DO0030
              GO TO F8110-FN.                                 DO0030
          MOVE -1 TO C9                                       DO0030
          GO TO F8110-1.                                      DO0030
      F8110-2.                                                DO0030
          IF     C1 (K01) NOT  =   ","                        DO0030
              GO TO F8110-4.                                  DO0030
          IF     TPOINT  =  "1"                               DO0030
          OR  NBCHP  =  0                                     DO0030
              MOVE "5" TO DEL-ER                              DO0030
              GO TO F8110-FN.                                 DO0030
      F8110-3.                                                DO0030
          IF     K02  >  NBCHA                                DO0030
              MOVE "5" TO DEL-ER                              DO0030
              GO TO F8110-FN.                                 DO0030
          COMPUTE K04  =  18 - NBCHA + K02                    DO0030
          MOVE 1 TO C3 (K04)                                  DO0030
          DIVIDE ZONUM4 INTO ZONUM9                           DO0030
          MOVE NBCHA TO K02                                   DO0030
          MOVE "1" TO TPOINT                                  DO0030
          GO TO F8110-1.                                      DO0030
      F8110-4.                                                DO0030
          IF     C1 (K01) NOT NUMERIC                         DO0030
              MOVE "4" TO DEL-ER                              DO0030
              GO TO F8110-FN.                                 DO0030
          IF     C9 NOT  =  ZERO                              DO0030
              AND C91  =  ZERO                                DO0030
                  MOVE "5" TO DEL-ER                          DO0030
                  GO TO F8110-FN.                             DO0030
          IF     C1 (K01)  =  "0"                             DO0030
              AND K02  =  ZERO                                DO0030
              AND TPOINT  =  "0"                              DO0030
                  GO TO F8110-1.                              DO0030
          ADD 1 TO K02                                        DO0030
          MOVE C1 (K01) TO C2 (K02).                          DO0030
          IF     TPOINT  =  "1"                               DO0030
              ADD 1 TO K03.                                   DO0030
          IF     K03  >  NBCHP                                DO0030
              MOVE "5" TO DEL-ER                              DO0030
              GO TO F8110-FN.                                 DO0030
          GO TO F8110-1.                                      DO0030
      F8110-5.                                                DO0030
          IF     TPOINT  =  "0"                               DO0030
              AND K02  >  ZERO                                DO0030
                  GO TO F8110-3.                              DO0030
          IF     SIGNE NOT  =  "+"                            DO0030
              GO TO F8110-FN.                                 DO0030
          IF     C9  =  ZERO                                  DO0030
              MOVE 1 TO C9.                                   DO0030
          ADD NBCHA NBCHP GIVING K01                          DO0030
          MULTIPLY C9 BY C29 (K01).                           DO0030
          IF     C29 (K01)  =  ZERO                           DO0030
              AND C9  =  -1                                   DO0030
                  MOVE C4 TO C2 (K01).                        DO0030
      F8110-FN.                                               DO0030
          EXIT.                                               DO0030
      F8115.                                                  DO0030
          MOVE ALL "-" TO O-0030-CHOIX.                       DO0030
          MOVE ALL "-" TO O-0030-MATE.                        DO0030
          MOVE ALL "-" TO O-0030-RELEA.                       DO0030
          MOVE ALL "-" TO O-0030-RUE.                         DO0030
          MOVE ALL "-" TO O-0030-VILLE.                       DO0030
          MOVE ALL "-" TO O-0030-COPOS.                       DO0030
          MOVE ALL "-" TO O-0030-REFCLI.                      DO0030
          MOVE ".._.._.." TO O-0030-DATE.                     DO0030
          MOVE ALL "-" TO O-0030-CORRES.                      DO0030
          MOVE ALL "-" TO F-0030-REMIS.                       DO0030
          MOVE ZERO TO ICATR.                                 DO0030
      F8115-GRP.                                              DO0030
          ADD 1 TO ICATR                                      DO0030
          MOVE P-0030-LINE (ICATR) TO O-0030-LINE             DO0030
          MOVE ALL "-" TO O-0030-CODMVT.                      DO0030
          MOVE ALL "-" TO O-0030-FOURNI.                      DO0030
          MOVE ALL "-" TO F-0030-QTMAC.                       DO0030
          MOVE ALL "-" TO F-0030-QTMAL.                       DO0030
          MOVE ALL "-" TO F-0030-QTMAR.                       DO0030
          MOVE ALL "-" TO O-0030-INFOR.                       DO0030
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     MOVE O-0030-LINE TO P-0030-LINE (ICATR).            DO0030
     IF    ICATR  <  IRR                                 DO0030
        GO TO F8115-GRP.                                 DO0030
     MOVE ALL "-" TO O-0030-EDIT.                        DO0030
 F8115-FN.                                               DO0030
     EXIT.                                               DO0030
 *    *************************************              DO0030
 *         *                         *                   DO0030
 *         *  VALIDATION AND SETTING OF DATE  *          DO0030
 *         *                         *                   DO0030
 *    *************************************              DO0030
 F8120.                                                  DO0030
     EXIT.                                               DO0030
 F8120-C.                                                DO0030
     MOVE DAT73C TO DATCTY.                              DO0030
     MOVE DAT71C TO DAT71.                               DO0030
     MOVE DAT72C TO DAT72.                               DO0030
     MOVE DAT74C TO DAT73.                               DO0030
     MOVE "00111" TO TT-DAT                              DO0030
     GO TO F8120-T.                                      DO0030
 F8120-D.                                                DO0030
     MOVE CENTUR TO DATCTY DAT73C.                       DO0030
     MOVE DAT71 TO DAT71C.                               DO0030
     MOVE DAT72 TO DAT72C                                DO0030
     MOVE DAT73 TO DAT74C.                               DO0030
     MOVE "00111" TO TT-DAT                              DO0030
     GO TO F8120-T.                                      DO0030
 F8120-E.                                                DO0030
     MOVE CENTUR TO DATCTY DAT83C.                       DO0030
     MOVE DAT81 TO DAT81C.                               DO0030
     MOVE DAT82 TO DAT82C.                               DO0030
     MOVE DAT83 TO DAT84C                                DO0030
     MOVE DATSEP TO DAT8S1C DAT8S2C.                     DO0030
     MOVE "01011" TO TT-DAT                              DO0030
     GO TO F8120-T.                                      DO0030
 F8120-G.                                                DO0030
     MOVE DAT81G TO DATCTY.                              DO0030
     MOVE DAT82G TO DAT61.                               DO0030
     MOVE DAT83G TO DAT62.                               DO0030
     MOVE DAT84G TO DAT63.                               DO0030
     MOVE "10110" TO TT-DAT                              DO0030
     GO TO F8120-T.                                      DO0030
 F8120-I.                                                DO0030
     MOVE CENTUR TO DATCTY DAT61C.                       DO0030
     MOVE DAT61 TO DAT62C.                               DO0030
     MOVE DAT62 TO DAT63C.                               DO0030
     MOVE DAT63 TO DAT64C.                               DO0030
     MOVE "10101" TO TT-DAT                              DO0030
     GO TO F8120-T.                                      DO0030
 F8120-M.                                                DO0030
     MOVE DAT83C TO DATCTY.                              DO0030
     MOVE DAT81C TO DAT81.                               DO0030
     MOVE DAT82C TO DAT82.                               DO0030
     MOVE DAT84C TO DAT83                                DO0030
     MOVE DATSEP TO DAT8S1 DAT8S2.                       DO0030
     MOVE "01011" TO TT-DAT                              DO0030
     GO TO F8120-T.                                      DO0030
 F8120-S.                                                DO0030
     MOVE DAT61C TO DATCTY.                              DO0030
     MOVE DAT62C TO DAT61.                               DO0030
     MOVE DAT63C TO DAT62.                               DO0030
     MOVE DAT64C TO DAT63.                               DO0030
     MOVE "10101" TO TT-DAT.                             DO0030
 F8120-T.                                                DO0030
     IF     T-DAT (1) = "1"                              DO0030
        MOVE DAT61 TO DAT73 DAT74C                       DO0030
        MOVE DAT62 TO DAT72 DAT72C                       DO0030
        MOVE DAT63 TO DAT71 DAT71C                       DO0030
        MOVE DATCTY TO DAT73C.                           DO0030
     IF     T-DAT (2) = "1"                              DO0030
        MOVE DAT81 TO DAT71 DAT71C                       DO0030
        MOVE DAT82 TO DAT72 DAT72C                       DO0030
        MOVE DAT83 TO DAT73 DAT74C                       DO0030
        MOVE DATCTY TO DAT73C.                           DO0030
     IF     T-DAT (3) = "1"                              DO0030
        MOVE DAT71 TO DAT81 DAT81C                       DO0030
        MOVE DAT72 TO DAT82 DAT82C                       DO0030
```

```
             MOVE DAT73 TO DAT83 DAT84C                           DO0030
             MOVE DATSEP TO DAT8S1 DAT8S2 DAT8S1C DAT8S2C         DO0030
             MOVE DATCTY TO DAT83C.                               DO0030
      IF      T-DAT (4) =  "1"                                    DO0030
             MOVE DAT71 TO DAT63 DAT64C                           DO0030
             MOVE DAT72 TO DAT62 DAT63C                           DO0030
             MOVE DAT73 TO DAT61 DAT62C                           DO0030
             MOVE DATCTY TO DAT61C.                               DO0030
      IF      T-DAT (5) =  "1"                                    DO0030
             MOVE DAT61 TO DAT82G                                 DO0030
             MOVE DAT62 TO DAT83G                                 DO0030
             MOVE DAT63 TO DAT84G                                 DO0030
             MOVE DATSET TO DAT8S1G DAT8S2G                       DO0030
             MOVE DATCTY TO DAT81G.                               DO0030
  F8120-Z.                                                        DO0030
      EXIT.                                                       DO0030
  F8120-ER.                                                       DO0030
      MOVE "1" TO DEL-ER.                                         DO0030
      IF      DAT6 NOT NUMERIC                                    DO0030
             GO TO F8120-KO.                                      DO0030
      IF      DATCTY NOT NUMERIC                                  DO0030
             GO TO F8120-KO.                                      DO0030
      IF      DAT62  >  "12"                                      DO0030
         OR   DAT62  =  "00"                                      DO0030
         OR   DAT63  >  "31"                                      DO0030
         OR   DAT63  =  "00"                                      DO0030
             GO TO F8120-KO.                                      DO0030
      IF      DAT63  >  "30"                                      DO0030
         AND (DAT62  =  "04"                                      DO0030
         OR   DAT62  =  "06"                                      DO0030
         OR   DAT62  =  "09"                                      DO0030
         OR   DAT62  =  "11")   GO TO F8120-KO.                   DO0030
      IF      DAT62 NOT  =  "02"                                  DO0030
             GO TO F8120-FN.                                      DO0030
      IF      DAT63  >  "29"                                      DO0030
             GO TO F8120-KO.                                      DO0030
      IF      DAT619  =  ZERO                                     DO0030
             DIVIDE DATCTY9 BY 4 GIVING LEAP-REM                  DO0030
             COMPUTE LEAP-REM  =  DATCTY9 - 4 * LEAP-REM          DO0030
      ELSE                                                        DO0030
             DIVIDE DAT619 BY 4 GIVING LEAP-REM                   DO0030
             COMPUTE LEAP-REM  =  DAT619 - 4 * LEAP-REM.          DO0030
      IF      DAT63  <  "29"                                      DO0030
         OR   LEAP-REM  =  ZERO                                   DO0030
             GO TO F8120-FN.                                      DO0030
  F8120-KO.                                                       DO0030
      MOVE "5" TO DEL-ER.                                         DO0030
  F8120-FN.                                                       DO0030
      EXIT.                                                       DO0030
  *         ***********************************                   DO0030
  *         *                                 *                   DO0030
  *         *  HELP SUB-FUNCTION              *                   DO0030
  *         *                                 *                   DO0030
  *         ***********************************                   DO0030
  F8130.                                                          DO0030
      IF     I-0030-CHOIX NOT  =  HIGH-VALUE                      DO0030
             MOVE I-0030-CHOIX TO O-0030-CHOIX.                   DO0030
      IF     I-0030-MATE NOT  =  HIGH-VALUE                       DO0030
             MOVE I-0030-MATE TO O-0030-MATE.                     DO0030
      IF     I-0030-RELEA NOT  =  HIGH-VALUE                      DO0030
             MOVE I-0030-RELEA TO O-0030-RELEA.                   DO0030
      IF     I-0030-RUE NOT  =  HIGH-VALUE                        DO0030
             MOVE I-0030-RUE TO O-0030-RUE.                       DO0030
      IF     I-0030-VILLE NOT  =  HIGH-VALUE                      DO0030
             MOVE I-0030-VILLE TO O-0030-VILLE.                   DO0030
      IF     I-0030-COPOS NOT  =  HIGH-VALUE                      DO0030
             MOVE I-0030-COPOS TO O-0030-COPOS.                   DO0030
      IF     I-0030-REFCLI NOT  =  HIGH-VALUE                     DO0030
             MOVE I-0030-REFCLI TO O-0030-REFCLI.                 DO0030
      IF     I-0030-DATE NOT  =  HIGH-VALUE                       DO0030
             MOVE I-0030-DATE TO O-0030-DATE.                     DO0030
      IF     I-0030-CORRES NOT  =  HIGH-VALUE                     DO0030
             MOVE I-0030-CORRES TO O-0030-CORRES.                 DO0030
      IF     E-0030-REMIS NOT  =  HIGH-VALUE                      DO0030
             MOVE E-0030-REMIS TO F-0030-REMIS.                   DO0030
      MOVE ZERO TO ICATR.                                         DO0030
  F8130-GRP.                                                      DO0030
```

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```
          ADD 1 TO ICATR                                        DO0030
          MOVE J-0030-LINE (ICATR) TO I-0030-LINE               DO0030
          MOVE P-0030-LINE (ICATR) TO O-0030-LINE               DO0030
          IF     I-0030-CODMVT NOT  =  HIGH-VALUE               DO0030
             MOVE I-0030-CODMVT TO O-0030-CODMVT.               DO0030
          IF     I-0030-FOURNI NOT  =  HIGH-VALUE               DO0030
             MOVE I-0030-FOURNI TO O-0030-FOURNI.               DO0030
          IF     E-0030-QTMAC NOT  =  HIGH-VALUE                DO0030
             MOVE E-0030-QTMAC TO F-0030-QTMAC.                 DO0030
          IF     E-0030-QTMAL NOT  =  HIGH-VALUE                DO0030
             MOVE E-0030-QTMAL TO F-0030-QTMAL.                 DO0030
          IF     E-0030-QTMAR NOT  =  HIGH-VALUE                DO0030
             MOVE E-0030-QTMAR TO F-0030-QTMAR.                 DO0030
          IF     I-0030-INFOR NOT  =  HIGH-VALUE                DO0030
             MOVE I-0030-INFOR TO O-0030-INFOR.                 DO0030
          MOVE O-0030-LINE TO P-0030-LINE (ICATR).              DO0030
          IF     ICATR  <   IRR                                 DO0030
             GO TO F8130-GRP.                                   DO0030
          IF     I-0030-EDIT NOT  =  HIGH-VALUE                 DO0030
             MOVE I-0030-EDIT TO O-0030-EDIT.                   DO0030
      F8130-FN.                                                 DO0030
          EXIT.                                                 DO0030
      F8140.                                                    DO0030
          MOVE 3 TO K01.                                        DO0030
      F8140-A.                                                  DO0030
          ADD 1 TO K01.                                         DO0030
          IF     K01  >  MESS-LENGF                             DO0030
             GO TO F8140-FN.                                    DO0030
          IF     0030-CX (K01)  =  ""20""                       DO0030
             ADD 2 TO K01                                       DO0030
             GO TO F8140-A.                                     DO0030
          IF     0030-CX (K01)  =  ""040""                      DO0030
             ADD 5 TO K01                                       DO0030
             GO TO F8140-A.                                     DO0030
          IF     0030-CX (K01)  =  SPACE                        DO0030
             MOVE ""19"" TO 0030-CX (K01).                      DO0030
          GO TO F8140-A.                                        DO0030
      F8140-FN.                                                 DO0030
          EXIT.                                                 DO0030
      F8145.                                                    DO0030
          MOVE T01004 TO S01004.                                DO0030
          MOVE T01015 TO S01015.                                DO0030
          MOVE T01060 TO S01060.                                DO0030
          MOVE T01071 TO S01071.                                DO0030
          MOVE T03018 TO S03018.                                DO0030
          MOVE T03034 TO S03034.                                DO0030
          MOVE T03063 TO S03063.                                DO0030
          MOVE T04013 TO S04013.                                DO0030
          MOVE T05009 TO S05009.                                DO0030
          MOVE T05052 TO S05052.                                DO0030
          MOVE T05074 TO S05074.                                DO0030
          MOVE T06016 TO S06016.                                DO0030
          MOVE T06061 TO S06061.                                DO0030
          MOVE T07018 TO S07018.                                DO0030
          MOVE T07061 TO S07061.                                DO0030
          MOVE T10003 TO S10003.                                DO0030
          MOVE T10007 TO S10007.                                DO0030
          MOVE T10016 TO S10016.                                DO0030
          MOVE T10026 TO S10026.                                DO0030
          MOVE T10035 TO S10035.                                DO0030
          MOVE T10042 TO S10042.                                DO0030
          MOVE T11003 TO S11003.                                DO0030
          MOVE T11007 TO S11007.                                DO0030
          MOVE T11016 TO S11016.                                DO0030
          MOVE T11026 TO S11026.                                DO0030
          MOVE T11035 TO S11035.                                DO0030
          MOVE T11042 TO S11042.                                DO0030
          MOVE T12003 TO S12003.                                DO0030
          MOVE T12007 TO S12007.                                DO0030
          MOVE T12016 TO S12016.                                DO0030
          MOVE T12026 TO S12026.                                DO0030
          MOVE T12035 TO S12035.                                DO0030
          MOVE T12042 TO S12042.                                DO0030
          MOVE T13003 TO S13003.                                DO0030
          MOVE T13007 TO S13007.                                DO0030
          MOVE T13016 TO S13016.                                DO0030
          MOVE T13026 TO S13026.                                DO0030
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        MOVE T13035 TO S13035.                          DO0030
        MOVE T13042 TO S13042.                          DO0030
        MOVE T14003 TO S14003.                          DO0030
        MOVE T14007 TO S14007.                          DO0030
        MOVE T14016 TO S14016.                          DO0030
        MOVE T14026 TO S14026.                          DO0030
        MOVE T14035 TO S14035.                          DO0030
        MOVE T14042 TO S14042.                          DO0030
        MOVE T15003 TO S15003.                          DO0030
        MOVE T15007 TO S15007.                          DO0030
        MOVE T15016 TO S15016.                          DO0030
        MOVE T15026 TO S15026.                          DO0030
        MOVE T15035 TO S15035.                          DO0030
        MOVE T15042 TO S15042.                          DO0030
        MOVE T16003 TO S16003.                          DO0030
        MOVE T16007 TO S16007.                          DO0030
        MOVE T16016 TO S16016.                          DO0030
        MOVE T16026 TO S16026.                          DO0030
        MOVE T16035 TO S16035.                          DO0030
        MOVE T16042 TO S16042.                          DO0030
        MOVE T17003 TO S17003.                          DO0030
        MOVE T17007 TO S17007.                          DO0030
        MOVE T17016 TO S17016.                          DO0030
        MOVE T17026 TO S17026.                          DO0030
        MOVE T17035 TO S17035.                          DO0030
        MOVE T17042 TO S17042.                          DO0030
        MOVE T18003 TO S18003.                          DO0030
        MOVE T18007 TO S18007.                          DO0030
        MOVE T18016 TO S18016.                          DO0030
        MOVE T18026 TO S18026.                          DO0030
        MOVE T18035 TO S18035.                          DO0030
        MOVE T18042 TO S18042.                          DO0030
        MOVE T20022 TO S20022.                          DO0030
        MOVE T20033 TO S20033.                          DO0030
        MOVE T23002 TO S23002.                          DO0030
        MOVE T24002 TO S24002.                          DO0030
    F8145-FN.                                           DO0030
        EXIT.                                           DO0030
   *     ************************************           DO0030
   *     *                                  *           DO0030
   *     * SEARCH FOR DOCUMENTATION REQUEST *           DO0030
   *     *                                  *           DO0030
   *     ************************************           DO0030
    F8150.                                              DO0030
        MOVE ZERO TO K-S0030-ERCOD.                     DO0030
        IF     I-0030-CHOIX  =  "$"                      DO0030
           MOVE HIGH-VALUE TO I-0030-CHOIX              DO0030
           MOVE 001 TO K-S0030-ERCOD                    DO0030
           GO TO F8150-FN.                              DO0030
        IF     I-0030-CHOIX  =  "="                      DO0030
           MOVE HIGH-VALUE TO I-0030-CHOIX              DO0030
           MOVE SPACE TO K-S0030-ERCOD                  DO0030
           GO TO F8150-FN.                              DO0030
        IF     I-0030-MATE  =  "$"                       DO0030
           MOVE HIGH-VALUE TO I-0030-MATE               DO0030
           MOVE 002 TO K-S0030-ERCOD                    DO0030
           GO TO F8150-FN.                              DO0030
        IF     I-0030-MATE  =  "="                       DO0030
           MOVE HIGH-VALUE TO I-0030-MATE               DO0030
           MOVE SPACE TO K-S0030-ERCOD                  DO0030
           GO TO F8150-FN.                              DO0030
        IF     I-0030-RELEA  =  "$"                      DO0030
           MOVE HIGH-VALUE TO I-0030-RELEA              DO0030
           MOVE 003 TO K-S0030-ERCOD                    DO0030
           GO TO F8150-FN.                              DO0030
        IF     I-0030-RELEA  =  "="                      DO0030
           MOVE HIGH-VALUE TO I-0030-RELEA              DO0030
           MOVE SPACE TO K-S0030-ERCOD                  DO0030
           GO TO F8150-FN.                              DO0030
        IF     I-0030-RUE  =  "$"                        DO0030
           MOVE HIGH-VALUE TO I-0030-RUE                DO0030
           MOVE 004 TO K-S0030-ERCOD                    DO0030
           GO TO F8150-FN.                              DO0030
        IF     I-0030-RUE  =  "="                        DO0030
           MOVE HIGH-VALUE TO I-0030-RUE                DO0030
           MOVE SPACE TO K-S0030-ERCOD                  DO0030
           GO TO F8150-FN.                              DO0030
```

```
        IF      I-0030-VILLE  =  "$"                             DO0030
            MOVE HIGH-VALUE TO I-0030-VILLE                      DO0030
            MOVE 005 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-VILLE  =  "="                             DO0030
            MOVE HIGH-VALUE TO I-0030-VILLE                      DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-COPOS  =  "$"                             DO0030
            MOVE HIGH-VALUE TO I-0030-COPOS                      DO0030
            MOVE 006 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-COPOS  =  "="                             DO0030
            MOVE HIGH-VALUE TO I-0030-COPOS                      DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-REFCLI  =  "$"                            DO0030
            MOVE HIGH-VALUE TO I-0030-REFCLI                     DO0030
            MOVE 007 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-REFCLI  =  "="                            DO0030
            MOVE HIGH-VALUE TO I-0030-REFCLI                     DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-DATE  =  "$"                              DO0030
            MOVE HIGH-VALUE TO I-0030-DATE                       DO0030
            MOVE 008 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-DATE  =  "="                              DO0030
            MOVE HIGH-VALUE TO I-0030-DATE                       DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-CORRES  =  "$"                            DO0030
            MOVE HIGH-VALUE TO I-0030-CORRES                     DO0030
            MOVE 009 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-FN.                                      DO0030
        IF      I-0030-CORRES  =  "="                            DO0030
            MOVE HIGH-VALUE TO I-0030-CORRES                     DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-FN.                                      DO0030
        IF      E-0030-REMIS  =  "$"                             DO0030
            MOVE HIGH-VALUE TO E-0030-REMIS                      DO0030
            MOVE 010 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-FN.                                      DO0030
        IF      E-0030-REMIS  =  "="                             DO0030
            MOVE HIGH-VALUE TO E-0030-REMIS                      DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-FN.                                      DO0030
        MOVE ZERO TO ICATR.                                      DO0030
    F8150-GRP.                                                   DO0030
        ADD 1 TO ICATR                                           DO0030
        MOVE J-0030-LINE (ICATR) TO I-0030-LINE                  DO0030
        IF      I-0030-CODMVT  =  "$"                            DO0030
            MOVE HIGH-VALUE TO I-0030-CODMVT                     DO0030
            MOVE 011 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-A.                                       DO0030
        IF      I-0030-CODMVT  =  "="                            DO0030
            MOVE HIGH-VALUE TO I-0030-CODMVT                     DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-A.                                       DO0030
        IF      I-0030-FOURNI  =  "$"                            DO0030
            MOVE HIGH-VALUE TO I-0030-FOURNI                     DO0030
            MOVE 012 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-A.                                       DO0030
        IF      I-0030-FOURNI  =  "="                            DO0030
            MOVE HIGH-VALUE TO I-0030-FOURNI                     DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-A.                                       DO0030
        IF      E-0030-QTMAC  =  "$"                             DO0030
            MOVE HIGH-VALUE TO E-0030-QTMAC                      DO0030
            MOVE 013 TO K-S0030-ERCOD                            DO0030
            GO TO F8150-A.                                       DO0030
        IF      E-0030-QTMAC  =  "="                             DO0030
            MOVE HIGH-VALUE TO E-0030-QTMAC                      DO0030
            MOVE SPACE TO K-S0030-ERCOD                          DO0030
            GO TO F8150-A.                                       DO0030
        IF      E-0030-QTMAL  =  "$"                             DO0030
```

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```
            MOVE HIGH-VALUE TO E-0030-QTMAL              DO0030
            MOVE 014 TO K-S0030-ERCOD                    DO0030
            GO TO F8150-A.                               DO0030
     IF     E-0030-QTMAL  =  "="                         DO0030
            MOVE HIGH-VALUE TO E-0030-QTMAL              DO0030
            MOVE SPACE TO K-S0030-ERCOD                  DO0030
            GO TO F8150-A.                               DO0030
     IF     E-0030-QTMAR  =  "$"                         DO0030
            MOVE HIGH-VALUE TO E-0030-QTMAR              DO0030
            MOVE 015 TO K-S0030-ERCOD                    DO0030
            GO TO F8150-A.                               DO0030
     IF     E-0030-QTMAR  =  "="                         DO0030
            MOVE HIGH-VALUE TO E-0030-QTMAR              DO0030
            MOVE SPACE TO K-S0030-ERCOD                  DO0030
            GO TO F8150-A.                               DO0030
     IF     I-0030-INFOR  =  "$"                         DO0030
            MOVE HIGH-VALUE TO I-0030-INFOR              DO0030
            MOVE 016 TO K-S0030-ERCOD                    DO0030
            GO TO F8150-A.                               DO0030
     IF     I-0030-INFOR  =  "="                         DO0030
            MOVE HIGH-VALUE TO I-0030-INFOR              DO0030
            MOVE SPACE TO K-S0030-ERCOD                  DO0030
            GO TO F8150-A.                               DO0030
        MOVE I-0030-LINE TO J-0030-LINE (ICATR).         DO0030
     IF     ICATR  <  IRR                                DO0030
            GO TO F8150-GRP.                             DO0030
     IF     I-0030-EDIT  =  "$"                          DO0030
            MOVE HIGH-VALUE TO I-0030-EDIT               DO0030
            MOVE 017 TO K-S0030-ERCOD                    DO0030
            GO TO F8150-FN.                              DO0030
     IF     I-0030-EDIT  =  "="                          DO0030
            MOVE HIGH-VALUE TO I-0030-EDIT               DO0030
            MOVE SPACE TO K-S0030-ERCOD                  DO0030
            GO TO F8150-FN.                              DO0030
        GO TO F8150-B.                                   DO0030
 F8150-A.                                                DO0030
        MOVE I-0030-LINE TO J-0030-LINE (ICATR).         DO0030
 F8150-B.                                                DO0030
        EXIT.                                            DO0030
 F8150-FN.                                               DO0030
        EXIT.                                            DO0030
 F8155.                                                  DO0030
        MOVE S03034 TO R03034 T03034.                    DO0030
        MOVE S03063 TO R03063 T03063.                    DO0030
        MOVE S05009 TO R05009 T05009.                    DO0030
        MOVE S05052 TO R05052 T05052.                    DO0030
        MOVE S05074 TO R05074 T05074.                    DO0030
        MOVE S06016 TO R06016 T06016.                    DO0030
        MOVE S06061 TO R06061 T06061.                    DO0030
        MOVE S07018 TO R07018 T07018.                    DO0030
        MOVE S07061 TO R07061 T07061.                    DO0030
        MOVE S10003 TO R10003 T10003.                    DO0030
        MOVE S10007 TO R10007 T10007.                    DO0030
        MOVE S10016 TO R10016 T10016.                    DO0030
        MOVE S10026 TO R10026 T10026.                    DO0030
        MOVE S10035 TO R10035 T10035.                    DO0030
        MOVE S10042 TO R10042 T10042.                    DO0030
        MOVE S11003 TO R11003 T11003.                    DO0030
        MOVE S11007 TO R11007 T11007.                    DO0030
        MOVE S11016 TO R11016 T11016.                    DO0030
        MOVE S11026 TO R11026 T11026.                    DO0030
        MOVE S11035 TO R11035 T11035.                    DO0030
        MOVE S11042 TO R11042 T11042.                    DO0030
        MOVE S12003 TO R12003 T12003.                    DO0030
        MOVE S12007 TO R12007 T12007.                    DO0030
        MOVE S12016 TO R12016 T12016.                    DO0030
        MOVE S12026 TO R12026 T12026.                    DO0030
        MOVE S12035 TO R12035 T12035.                    DO0030
        MOVE S12042 TO R12042 T12042.                    DO0030
        MOVE S13003 TO R13003 T13003.                    DO0030
        MOVE S13007 TO R13007 T13007.                    DO0030
        MOVE S13016 TO R13016 T13016.                    DO0030
        MOVE S13026 TO R13026 T13026.                    DO0030
        MOVE S13035 TO R13035 T13035.                    DO0030
        MOVE S13042 TO R13042 T13042.                    DO0030
        MOVE S14003 TO R14003 T14003.                    DO0030
        MOVE S14007 TO R14007 T14007.                    DO0030
```

```
        MOVE S14016 TO R14016 T14016.                  DO0030
        MOVE S14026 TO R14026 T14026.                  DO0030
        MOVE S14035 TO R14035 T14035.                  DO0030
        MOVE S14042 TO R14042 T14042.                  DO0030
        MOVE S15003 TO R15003 T15003.                  DO0030
        MOVE S15007 TO R15007 T15007.                  DO0030
        MOVE S15016 TO R15016 T15016.                  DO0030
        MOVE S15026 TO R15026 T15026.                  DO0030
        MOVE S15035 TO R15035 T15035.                  DO0030
        MOVE S15042 TO R15042 T15042.                  DO0030
        MOVE S16003 TO R16003 T16003.                  DO0030
        MOVE S16007 TO R16007 T16007.                  DO0030
        MOVE S16016 TO R16016 T16016.                  DO0030
        MOVE S16026 TO R16026 T16026.                  DO0030
        MOVE S16035 TO R16035 T16035.                  DO0030
        MOVE S16042 TO R16042 T16042.                  DO0030
        MOVE S17003 TO R17003 T17003.                  DO0030
        MOVE S17007 TO R17007 T17007.                  DO0030
        MOVE S17016 TO R17016 T17016.                  DO0030
        MOVE S17026 TO R17026 T17026.                  DO0030
        MOVE S17035 TO R17035 T17035.                  DO0030
        MOVE S17042 TO R17042 T17042.                  DO0030
        MOVE S18003 TO R18003 T18003.                  DO0030
        MOVE S18007 TO R18007 T18007.                  DO0030
        MOVE S18016 TO R18016 T18016.                  DO0030
        MOVE S18026 TO R18026 T18026.                  DO0030
        MOVE S18035 TO R18035 T18035.                  DO0030
        MOVE S18042 TO R18042 T18042.                  DO0030
        MOVE S20022 TO R20022 T20022.                  DO0030
        MOVE S20033 TO R20033 T20033.                  DO0030
    F8155-FN.                                          DO0030
        EXIT.                                          DO0030
    F81-FN.                                            DO0030
        EXIT.                                          DO0030
 *           +---------------------------------+       P000
 * LEVEL 10   I ZIP CODE VALIDATION           I       P000
 *           +---------------------------------+       P000
    F93CP.                                             P000
        MOVE 1 TO IWP20R.                              P100
    F93CP-100.                                         P100
        IF     IWP20R NOT >  IWP20L                    P100
          AND WP20-COPOS (IWP20R) NOT  = WP30-COPOS    P100
             ADD 1 TO IWP20R                           P100
             GO TO F93CP-100.                          P100
        IF     IWP20R >  IWP20L                        P200
           MOVE "5" TO DEL-ER                          P200
           GO TO F93CP-FN.                             P220
    F93CP-FN.                                          DO0030
        EXIT.                                          DO0030
```

7. HELP FUNCTION (MULTI-SCREEN)

7.1. INTRODUCTION

<u>PRESENTATION</u>

The user can access context-sensitive help for a screen or a data element on that screen through the activation of a program commonly known as the "HELP Function".

The purpose of the HELP function is to display the messages contained in the Error Message file.

For information on the character used to call the HELP documentation of a given screen or data element, refer to Subchapter, "DIALOGUE OR SCREEN DEFINITION" in the ON-LINE SYSTEMS DEVELOPMENT Reference Manual.

<u>USING THE "HELP" PROGRAM</u>

To use the specifications of the "HELP" function in a dialogue, an additional screen has to be defined.

This screen belongs to the dialogue. Thus, the first two characters of its code must be the same as those of the corresponding dialogue, the last four being the code of the HELP screen. For Dialogue 'XX', the HELP screen would be coded: 'XXHELP'.

The 'XXHELP' screen must be defined but not described (i.e., only the Definition screen must be created). It must have the same variants as the dialogue. Coding the external names (MAP and PROGRAM) is not restricted and is up to the user.

The user must generate and compile the 'XXHELP' program (the generated COBOL program has the same structure as an on-line screen program).

The HELP program ensures the display of the documentation as follows:

  - For the Screen documentation:

  . Screen-related documentation (texts and comments),

  . Segment access error messages.

  - For the Data Element documentation:

  . Standard error messages generated by the System,

  . Explicit manual error messages,

  . Description lines associated with the Data Element (CH: E......D),

  . Screen general documentation lines associated with the Data Element (CH: O......G).

      (For further details, refer to Subchapter "ERROR MESSAGES: CODING", Chapter "ERROR MESSAGES - HELP FUNCTION" in the ON-LINE SYSTEMS DEVELOPMENT Reference Manual).

NOTE: If the Error Message file is generated with the 'C1' option, only the error messages are generated. If it is generated with the 'C2' option, in addition to the error messages, comments and documentation associated with the Screen are also generated.

A "HELP" program generated from a dialogue can be used by 'n' dialogues. It is generated once, and the 'XXHELP' screens of the various dialogues must have the same external names (PROGRAM and MAP). User input on a screen is saved, before the "HELP" screen display, by the calling program in a file whose default name is 'HE' (see Chapter GENERATED PROGRAM, Sub-chapter SEGMENT DESCRIPTION).

```
-------------------------------------------------------------------------------
!                     BULL DPS7 APPLICATION                 *PDLB.NDOC.AD7.247!
! ON-LINE SCREEN DEFINITION..........: DOHELP                                 !
!                                                                             !
! SCREEN NAME.......................: HELP FUNCTION SCREEN                    !
!                                                                             !
! SCREEN SIZE (LINES, COLUMNS) ......:  24      080                           !
! LABEL TYPE, TABS, INITIALIZATION...:  L       01       _                    !
! HELP CHARACTER SCREEN, DATA ELEMENT:  =        $                            !
!                                                                             !
!                                      LABELS   DISPLAY  INPUT   ER.MESS.  ER.FL!
! INTENSITY ATTRIBUTE ...............:   N        N        N        B        B !
! PRESENTATION ATTRIBUTE ............:   N        N        N        N        N !
! COLOR ATTRIBUTE ...................:   W        W        W        W        W !
!                                                                             !
! TYPE OF COBOL AND MAP TO GENERATE..:  4   C    HB DPS7 (MULTI-SCREENS)      !
! CONTROL CARD OPTIONS FRONT & BACK..:          (PROGRAM)            (MAP)!
! EXTERNAL NAMES ....................:  DOP050  (PROGRAM)    DOM050   (MAP)!
! TRANSACTION CODE...................: * DO50                                 !
!                                                                             !
!                                                                             !
! EXPLICIT KEYWORDS..: DO                                                     !
! SESSION NUMBER.....: 0002        LIBRARY......: ACC    LOCK....:            !
! *** END ***                                                                 !
! O: C1 CH: Odohelp                      ACTION:                             !
-------------------------------------------------------------------------------
```

```
--------------------------------------------------------------------------------
!                                                                              !
!DOCUMENTATION OF THE SCREEN  ***  ORDER INPUT SCREEN  ***                     !
!                                                                              !
!                                                                              !
!       THIS SCREEN ALLOWS TO ENTER AN ORDER OF PACBASE                        !
!       DOCUMENTATION PLACED BY ANY REFERENCED CLIENT.                         !
!       FROM THIS SCREEN, YOU MAY ACCESS ANY OTHER SCREEN OF                   !
!       THE DIALOG BY ENTERING THE CORRESPONDING CHOICE FIELD                  !
!       VALUE. THE DIFFERENT VALUES ARE DISPLAYED IN THE                       !
!       BOTTOM PART OF ALL THE DIALOG'S SCREENS.                               !
!                                                                              !
! F018E TECHNICAL PROBLEM  CALL E.D.P. DEPT.(CODE 030-CD05 F8)                 !
!                                                                              !
! F019E TECHNICAL PROBLEM  CALL E.D.P. DEPT.(CODE 030-CD05 F9)                 !
!                                                                              !
! F028E INCORRECT UPDATE REQUEST.                                             !
!                                                                              !
! F029E INCORRECT CREATION REQUEST.                                           !
!                                                                              !
! F038E INVALID CREATION RECORD      MANUALS                                  !
!                                                                              !
!CHOICE..........: S    (E: END - T: TOP - S: NEXT)                           !
!                                                                              !
--------------------------------------------------------------------------------
```

HELP FUNCTION (MULTI-SCREEN)   **7**
INTRODUCTION   **1**


```
    -------------------------------------------------------------------------
    !                                                                       !
    !DOCUMENTATION OF DATA ELEMENT: QUANTITY ORDERED                        !
    !                                                                       !
    !                                                                       !
    !     THE 'QUANTITY ORDERED' FIELD MUST BE ENTERED WITH THE             !
    !     NUMBER OF COPIES NEEDED FOR THE SPECIFIED MANUAL.                  !
    !     ACCORDING TO STOCK AVAILABILITY, THE SYSTEM FILLS IN              !
    !     THE 'QUANTITY DELIVERED' AND, IF NEEDED, THE 'QUANTITY            !
    !     OUTSTANDING'.                                                      !
    !                                                                       !
    ! (01 50)     ABOVE 50 SHIP VIA OTHER CHANNEL                           !
    !                                                                       !
    ! 0122 INVALID ABSENCE FOR THE FIELD QUANTITY ORDERED                   !
    !                                                                       !
    ! 0124 NON-NUMERICAL CLASS FIELD     QUANTITY ORDERED                   !
    !                                                                       !
    ! 0125 INVALID VALUE FOR THE FIELD   QUANTITY ORDERED                   !
    !                                                                       !
    !                                                                       !
    !                                                                       !
    !                                                                       !
    !CHOICE..........: S    (E: END - T: TOP - S: NEXT)                     !
    !                                                                       !
    -------------------------------------------------------------------------
```

7.2. GENERATED HELP PROGRAM

```
     IDENTIFICATION DIVISION.
     PROGRAM-ID. DOP050.                                    DOHELP
     AUTHOR.     HELP FUNCTION SCREEN.                      DOHELP
     DATE-COMPILED. 07/28/94.                               DOHELP
     ENVIRONMENT DIVISION.                                  DOHELP
     CONFIGURATION SECTION.                                 DOHELP
     SOURCE-COMPUTER. LEVEL-64.                             DOHELP
     OBJECT-COMPUTER. LEVEL-64.                             DOHELP
     SPECIAL-NAMES.                                         DOHELP
          DECIMAL-POINT IS COMMA                            DOHELP
          OBJECT IS COMMA.                                  DOHELP
     INPUT-OUTPUT SECTION.                                  DOHELP
     FILE-CONTROL.                                          DOHELP
      COPY   SELECT-EM-FILE.                                DOHELP
     DATA DIVISION.                                         DOHELP
     FILE SECTION.                                          DOHELP
     FD              EM-FILE                                DOHELP
            BLOCK    00001 RECORDS                          DOHELP
            DATA RECORD                                     DOHELP
                    EM00                                    DOHELP
            LABEL RECORD STANDARD.                          DOHELP
     01         EM00.                                       DOHELP
       05           EM00-EMKEY.                             DOHELP
         10         EM00-LIBRA   PICTURE X(3).              DOHELP
         10         EM00-ENTYP   PICTURE X.                 DOHELP
         10         EM00-XEMKY.                             DOHELP
           15       EM00-PROGR   PICTURE X(6).              DOHELP
           15       EM00-ERCOD.                             DOHELP
             20     EM00-ERCOD9  PICTURE 9(3).              DOHELP
           15       EM00-ERTYP   PICTURE X.                 DOHELP
         10         EM00-LINUM   PICTURE 9(3).              DOHELP
       05           EM00-ERLVL   PICTURE X.                 DOHELP
       05           EM00-ERMSG   PICTURE X(66).             DOHELP
       05           FILLER       PICTURE X(6).              DOHELP
     WORKING-STORAGE SECTION.                               DOHELP
     01         WSS-BEGIN.                                  DOHELP
       05       FILLER       PICTURE X(7) VALUE "WORKING".  DOHELP
       05       IK           PICTURE X.                     DOHELP
       05       BLANC        PICTURE X VALUE SPACE.         DOHELP
       05       OPER         PICTURE X.                     DOHELP
       05       OPERD        PICTURE X VALUE SPACE.         DOHELP
       05       CATX         PICTURE X.                     DOHELP
       05       CATM         PICTURE X.                     DOHELP
       05       ICATR        PICTURE 99.                    DOHELP
       05       SCR-ER       PICTURE X.                     DOHELP
       05       FT           PICTURE X.                     DOHELP
       05       ICF          PICTURE X.                     DOHELP
       05       OCF          PICTURE X.                     DOHELP
       05       CAT-ER       PICTURE X.                     DOHELP
       05       I-PFKEY      PICTURE XX.                    DOHELP
       05       7-YCREE      PICTURE X VALUE "E".           DOHELP
       05       7-YCREF      PICTURE X VALUE "F".           DOHELP
       05       7-YCREP      PICTURE X VALUE "P".           DOHELP
       05       7-YCRER      PICTURE X VALUE "R".           DOHELP
       05       7-YCREX      PICTURE X VALUE "X".           DOHELP
       05       INA          PICTURE 999 VALUE 000.         DOHELP
       05       INR          PICTURE 999 VALUE 000.         DOHELP
       05       INZ          PICTURE 999 VALUE 001.         DOHELP
       05       IRR          PICTURE 99 VALUE 17.           DOHELP
       05       INT          PICTURE 999 VALUE 001.         DOHELP
       05       IER          PICTURE 99 VALUE 01.           DOHELP
       05       DEL-ER       PICTURE X.                     DOHELP
     01         PACBASE-CONSTANTS.                          DOHELP
     * OLSD DATES PACE30 : 10/03/94                         DOHELP
     *        PACE80 : 10/03/94   PAC7SG : 940503           DOHELP
       05       SESSI        PICTURE X(5) VALUE "0413 ".    DOHELP
       05       LIBRA        PICTURE X(3) VALUE "AD7".      DOHELP
       05       DATGN        PICTURE X(8) VALUE "07/28/94". DOHELP
       05       PROGR        PICTURE X(6) VALUE "DOHELP".   DOHELP
       05       PROGE        PICTURE X(8) VALUE "DOP050  ". DOHELP
       05       TIMGN        PICTURE X(8) VALUE "11:38:04". DOHELP
       05       USERCO       PICTURE X(8) VALUE "PDMM    ". DOHELP
```

```
     05            PRCGI        PICTURE X(8) VALUE "ZAR980".    DOHELP
     05            5-HELP-PROGE PICTURE X(8).                   DOHELP
 01               DATCE.                                        DOHELP
     05            CENTUR       PICTURE XX VALUE "19".          DOHELP
     05            DATOR.                                       DOHELP
       10          DATOA        PICTURE XX.                     DOHELP
       10          DATOM        PICTURE XX.                     DOHELP
       10          DATOJ        PICTURE XX.                     DOHELP
 01               DAT6.                                         DOHELP
     10            DAT61.                                       DOHELP
       15          DAT619       PICTURE 99.                     DOHELP
     10            DAT62.                                       DOHELP
       15          DAT629       PICTURE 99.                     DOHELP
     10            DAT63        PICTURE XX.                     DOHELP
 01               DAT7.                                         DOHELP
     10            DAT71        PICTURE XX.                     DOHELP
     10            DAT72        PICTURE XX.                     DOHELP
     10            DAT73        PICTURE XX.                     DOHELP
 01               DAT8.                                         DOHELP
     10            DAT81        PICTURE XX.                     DOHELP
     10            DAT8S1       PICTURE X.                      DOHELP
     10            DAT82        PICTURE XX.                     DOHELP
     10            DAT8S2       PICTURE X.                      DOHELP
     10            DAT83        PICTURE XX.                     DOHELP
 01               DATSEP       PICTURE X VALUE "/".             DOHELP
 01               DATSET       PICTURE X VALUE "-".             DOHELP
 01               DATCTY.                                       DOHELP
     05            DATCTY9      PICTURE 99.                     DOHELP
 01               DAT6C.                                        DOHELP
     10            DAT61C       PICTURE XX.                     DOHELP
     10            DAT62C       PICTURE XX.                     DOHELP
     10            DAT63C       PICTURE XX.                     DOHELP
     10            DAT64C       PICTURE XX.                     DOHELP
 01               DAT7C.                                        DOHELP
     10            DAT71C       PICTURE XX.                     DOHELP
     10            DAT72C       PICTURE XX.                     DOHELP
     10            DAT73C       PICTURE XX.                     DOHELP
     10            DAT74C       PICTURE XX.                     DOHELP
 01               DAT8C.                                        DOHELP
     10            DAT81C       PICTURE XX.                     DOHELP
     10            DAT8S1C      PICTURE X VALUE "/".            DOHELP
     10            DAT82C       PICTURE XX.                     DOHELP
     10            DAT8S2C      PICTURE X VALUE "/".            DOHELP
     10            DAT83C       PICTURE XX.                     DOHELP
     10            DAT84C       PICTURE XX.                     DOHELP
 01               DAT8G.                                        DOHELP
     10            DAT81G       PICTURE XX.                     DOHELP
     10            DAT82G       PICTURE XX.                     DOHELP
     10            DAT8S1G      PICTURE X VALUE "-".            DOHELP
     10            DAT83G       PICTURE XX.                     DOHELP
     10            DAT8S2G      PICTURE X VALUE "-".            DOHELP
     10            DAT84G       PICTURE XX.                     DOHELP
 01               TIMCO.                                        DOHELP
     02            TIMCOG.                                      DOHELP
       05          TIMCOH       PICTURE XX.                     DOHELP
       05          TIMCOM       PICTURE XX.                     DOHELP
       05          TIMCOS       PICTURE XX.                     DOHELP
     02            TIMCOC       PICTURE XX.                     DOHELP
 01               TIMDAY.                                       DOHELP
     05            TIMHOU       PICTURE XX.                     DOHELP
     05            TIMS1        PICTURE X VALUE ":".            DOHELP
     05            TIMMIN       PICTURE XX.                     DOHELP
     05            TIMS2        PICTURE X VALUE ":".            DOHELP
     05            TIMSEC       PICTURE XX.                     DOHELP
 01               CONFIGURATIONS.                               DOHELP
     05            EM00-CF      PICTURE X.                      DOHELP
 01               K-HELP-CLE.                                   *AA010
     03            K-RHELP-LIGNE OCCURS 1.                      *AA010
       10          K-REM00-EMKEY PICTURE X(17).                *AA010
 01               HELP-MESSO.                                   *AA040
     02            HELP-MESSI.                                  *AA040
       05          S01002       PICTURE X(011).                *AA040
       05          S03002       PICTURE X(030).                *AA040
       05          S03033       PICTURE X(036).                *AA040
       05          S05004       PICTURE X(074).                *AA040
       05          S06004       PICTURE X(074).                *AA040
       05          S07004       PICTURE X(074).                *AA040
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      05            S08004          PICTURE X(074).                    *AA040
      05            S09004          PICTURE X(074).                    *AA040
      05            S10004          PICTURE X(074).                    *AA040
      05            S11004          PICTURE X(074).                    *AA040
      05            S12004          PICTURE X(074).                    *AA040
      05            S13004          PICTURE X(074).                    *AA040
      05            S14004          PICTURE X(074).                    *AA040
      05            S15004          PICTURE X(074).                    *AA040
      05            S16004          PICTURE X(074).                    *AA040
      05            S17004          PICTURE X(074).                    *AA040
      05            S18004          PICTURE X(074).                    *AA040
      05            S19004          PICTURE X(074).                    *AA040
      05            S20004          PICTURE X(074).                    *AA040
      05            S21004          PICTURE X(074).                    *AA040
      05            S23002          PICTURE X(019).                    *AA040
      05            S23022          PICTURE X(001).                    *AA040
      05            S23028          PICTURE X(030).                    *AA040
      05            S24002          PICTURE X(072).                    *AA040
  01                AT-HELP-MESSO.                                     *AA041
    05              AT-S01002       PICTURE X(12) VALUE                *AA041
                            "01001011LNNW".                            *AA041
    05              AT-S03002       PICTURE X(12) VALUE                *AA041
                            "03001030FNNW".                            *AA041
    05              AT-R000101-LIBEC REDEFINES AT-S03002 PICTURE       *AA041
                            X(12).                                     *AA041
    05              AT-S03033       PICTURE X(12) VALUE                *AA041
                            "03032036FNNW".                            *AA041
    05              AT-R000101-LIENT REDEFINES AT-S03033 PICTURE       *AA041
                            X(12).                                     *AA041
    05              AT-S05004       PICTURE X(12) VALUE                *AA041
                            "05003074FNNW".                            *AA041
    05              AT-R010101-ERMSGD REDEFINES AT-S05004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S06004       PICTURE X(12) VALUE                *AA041
                            "06003074FNNW".                            *AA041
    05              AT-R020101-ERMSGD REDEFINES AT-S06004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S07004       PICTURE X(12) VALUE                *AA041
                            "07003074FNNW".                            *AA041
    05              AT-R030101-ERMSGD REDEFINES AT-S07004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S08004       PICTURE X(12) VALUE                *AA041
                            "08003074FNNW".                            *AA041
    05              AT-R040101-ERMSGD REDEFINES AT-S08004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S09004       PICTURE X(12) VALUE                *AA041
                            "09003074FNNW".                            *AA041
    05              AT-R050101-ERMSGD REDEFINES AT-S09004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S10004       PICTURE X(12) VALUE                *AA041
                            "10003074FNNW".                            *AA041
    05              AT-R060101-ERMSGD REDEFINES AT-S10004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S11004       PICTURE X(12) VALUE                *AA041
                            "11003074FNNW".                            *AA041
    05              AT-R070101-ERMSGD REDEFINES AT-S11004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S12004       PICTURE X(12) VALUE                *AA041
                            "12003074FNNW".                            *AA041
    05              AT-R080101-ERMSGD REDEFINES AT-S12004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S13004       PICTURE X(12) VALUE                *AA041
                            "13003074FNNW".                            *AA041
    05              AT-R090101-ERMSGD REDEFINES AT-S13004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S14004       PICTURE X(12) VALUE                *AA041
                            "14003074FNNW".                            *AA041
    05              AT-R100101-ERMSGD REDEFINES AT-S14004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S15004       PICTURE X(12) VALUE                *AA041
                            "15003074FNNW".                            *AA041
    05              AT-R110101-ERMSGD REDEFINES AT-S15004 PICTURE      *AA041
                            X(12).                                     *AA041
    05              AT-S16004       PICTURE X(12) VALUE                *AA041
                            "16003074FNNW".                            *AA041
    05              AT-R120101-ERMSGD REDEFINES AT-S16004 PICTURE      *AA041
                            X(12).                                     *AA041
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    05              AT-S17004    PICTURE X(12) VALUE        *AA041
                                 "17003074FNNW".           *AA041
    05              AT-R130101-ERMSGD REDEFINES AT-S17004 PICTURE  *AA041
                                 X(12).                    *AA041
    05              AT-S18004    PICTURE X(12) VALUE        *AA041
                                 "18003074FNNW".           *AA041
    05              AT-R140101-ERMSGD REDEFINES AT-S18004 PICTURE  *AA041
                                 X(12).                    *AA041
    05              AT-S19004    PICTURE X(12) VALUE        *AA041
                                 "19003074FNNW".           *AA041
    05              AT-R150101-ERMSGD REDEFINES AT-S19004 PICTURE  *AA041
                                 X(12).                    *AA041
    05              AT-S20004    PICTURE X(12) VALUE        *AA041
                                 "20003074FNNW".           *AA041
    05              AT-R160101-ERMSGD REDEFINES AT-S20004 PICTURE  *AA041
                                 X(12).                    *AA041
    05              AT-S21004    PICTURE X(12) VALUE        *AA041
                                 "21003074FNNW".           *AA041
    05              AT-R170101-ERMSGD REDEFINES AT-S21004 PICTURE  *AA041
                                 X(12).                    *AA041
    05              AT-S23002    PICTURE X(12) VALUE        *AA041
                                 "23001019FNNW".           *AA041
    05              AT-R000101-LICHOI REDEFINES AT-S23002 PICTURE  *AA041
                                 X(12).                    *AA041
    05              AT-S23022    PICTURE X(12) VALUE        *AA041
                                 "23021001 NNW".           *AA041
    05              AT-R000101-OPDOC REDEFINES AT-S23022 PICTURE   *AA041
                                 X(12).                    *AA041
    05              AT-S23028    PICTURE X(12) VALUE        *AA041
                                 "23027030FNNW".           *AA041
    05              AT-R000101-LIOPT REDEFINES AT-S23028 PICTURE   *AA041
                                 X(12).                    *AA041
    05              AT-S24002    PICTURE X(12) VALUE        *AA041
                                 "24001072FBNW".           *AA041
    05              AT-R000101-ERMSG REDEFINES AT-S24002 PICTURE   *AA041
                                 X(12).                    *AA041
01                  AT-HELP-MESSA REDEFINES AT-HELP-MESSO.   *AA041
    05              AT-HELP-LIGNE OCCURS 024.              *AA041
      10            AT-HELP-YPCUR PICTURE 9(5).            *AA041
      10            AT-HELP-LENGTH PICTURE 999.            *AA041
      10            AT-HELP-ATTRN PICTURE X.               *AA041
      10            AT-HELP-ATTRI PICTURE X.               *AA041
      10            AT-HELP-ATTRP PICTURE X.               *AA041
      10            AT-HELP-ATTRC PICTURE X.               *AA041
01                  INPUT-HELP.                            *AA042
    05              R23022       PICTURE X(1).             *AA042
01                  INPUT-SCREEN-FIELDS REDEFINES INPUT-HELP.   *AA045
    02              I-HELP.                                *AA045
      03            I-HELP-ENDRE.                          *AA045
        05          I-HELP-OPDOC  PICTURE X.               *AA045
01                  OUTPUT-HELP.                           *AA049
    05              T03002       PICTURE X(30).            *AA049
    05              T03033       PICTURE X(36).            *AA049
    05              T05004       PICTURE X(74).            *AA049
    05              T06004       PICTURE X(74).            *AA049
    05              T07004       PICTURE X(74).            *AA049
    05              T08004       PICTURE X(74).            *AA049
    05              T09004       PICTURE X(74).            *AA049
    05              T10004       PICTURE X(74).            *AA049
    05              T11004       PICTURE X(74).            *AA049
    05              T12004       PICTURE X(74).            *AA049
    05              T13004       PICTURE X(74).            *AA049
    05              T14004       PICTURE X(74).            *AA049
    05              T15004       PICTURE X(74).            *AA049
    05              T16004       PICTURE X(74).            *AA049
    05              T17004       PICTURE X(74).            *AA049
    05              T18004       PICTURE X(74).            *AA049
    05              T19004       PICTURE X(74).            *AA049
    05              T20004       PICTURE X(74).            *AA049
    05              T21004       PICTURE X(74).            *AA049
    05              T23002       PICTURE X(19).            *AA049
    05              T23022       PICTURE X(1).             *AA049
    05              T23028       PICTURE X(30).            *AA049
    05              T24002       PICTURE X(72).            *AA049
01                  OUTPUT-SCREEN-FIELDS REDEFINES OUTPUT-HELP.   *AA050
    02              O-HELP.                                *AA050
      03            O-HELP-BEGIN.                          *AA050
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      05          O-HELP-LIBEC  PICTURE X(30).              *AA050
      05          O-HELP-LIENT  PICTURE X(36).              *AA050
   03             P-HELP-LIGNE  OCCURS 17.                  *AA050
    10            FILLER        PICTURE X(74).              *AA050
   03             O-HELP-ENDRE.                             *AA050
      05          O-HELP-LICHOI PICTURE X(19).              *AA050
      05          O-HELP-OPDOC  PICTURE X.                  *AA050
      05          O-HELP-LIOPT  PICTURE X(30).              *AA050
      05          O-HELP-ERMS.                              *AA050
        10        FILLER        OCCURS 1.                   *AA050
          15      O-HELP-ERMSG  PICTURE X(72).              *AA050
01                REPEAT-LINE.                              *AA050
  02              O-HELP-LIGNE.                             *AA050
      05          O-HELP-ERMSGD PICTURE X(74).              *AA050
01                CMES-COMMUNICATION.                       *AA060
  05              CMES-YR00     PICTURE X(4000).            *AA060
  05              CMES-YO00     PICTURE X(3798).            *AA060
  05              CMES-PFKEY    PICTURE XX.                 *AA060
  05              CMES-IND1     COMP-1.                     *AA060
  05              CMES-IND2     COMP-1.                     *AA060
  05              CMES-YMAT     PICTURE X.                  *AA060
  05              CMES-YCRE     PICTURE X.                  *AA060
  05              CMES-YPCUR    PICTURE X(5) VALUE SPACE.   *AA060
01                END-CONVERSATION.                         *AA070
  05              END-MESSAGE   PICTURE X(30) VALUE SPACE.  *AA070
  05              END-ATTR      PICTURE X(12) VALUE         *AA070
                  "01001030FNNW".                           *AA070
01                HELP-MPRIOR   PICTURE X(80).              *AA076
01                VALIDATION-TABLE-FIELDS.                  *AA150
  02              DE-ERR.                                   *AA150
    05            DE-ER         PICTURE X OCCURS 001.       *AA150
  02              DE-E          REDEFINES DE-ERR.           *AA150
    03            ER-HELP-ENDRE.                            *AA150
      05          ER-HELP-OPDOC PICTURE X.                  *AA150
01                TT-DAT.                                   *AA200
  05              T-DAT         PICTURE X OCCURS 5.         *AA200
01                USERS-ERROR.                              *AA200
  05              XEMKY.                                    *AA200
    10            XPROGR        PICTURE X(6).               *AA200
    10            XERCD         PICTURE X(4).               *AA200
  05              T-XEMKY       OCCURS 01.                  *AA200
    10            T-XPROGR      PICTURE X(6).               *AA200
    10            T-XERCD       PICTURE X(4).               *AA200
01                PACBASE-INDEXES COMPUTATIONAL-1.          *AA200
  05              K01           PICTURE S9(4).              *AA200
  05              K02           PICTURE S9(4).              *AA200
  05              K03           PICTURE S9(4).              *AA200
  05              K04           PICTURE S9(4).              *AA200
  05              K50R          PICTURE S9(4) VALUE ZERO.   *AA200
  05              K50L          PICTURE S9(4) VALUE ZERO.   *AA200
  05              K50M          PICTURE S9(4) VALUE +01.    *AA200
  05              5-CA00-LTH    PICTURE S9(4) VALUE +0147.  *AA200
  05              5-EM00-LTH    PICTURE S9(4) VALUE +0090.  *AA200
  05              LTH           PICTURE S9(4) VALUE ZERO.   *AA200
  05              5-HELP-LENGTH PICTURE S9(4) VALUE +0895.  *AA200
01                TABLE-OF-ATTRIBUTES.                      *AA250
  02              DE-ATT.                                   *AA250
    03            DE-ATT1       OCCURS 4.                   *AA250
      05          DE-AT         PICTURE X OCCURS 001.       *AA250
  02              DE-A          REDEFINES DE-ATT.           *AA250
    03            DE-ATT2       OCCURS 4.                   *AA250
      04          A-HELP-ENDRE.                             *AA250
        05        A-HELP-OPDOC  PICTURE X.                  *AA250
01                AT-SV.                                    *AA260
    10            FILLER        PICTURE X(6) VALUE "022NNW".*AA260
01                TABLE-SV-AT   REDEFINES AT-SV.            *AA265
  02              LIGNE-SV-AT   OCCURS 001.                 *AA265
    05            SV-AT         PICTURE 999.                *AA265
    05            SV-ATTRI      PICTURE X.                  *AA265
    05            SV-ATTRP      PICTURE X.                  *AA265
    05            SV-ATTRC      PICTURE X.                  *AA265
01                FIRST-ON-SEGMENT.                         *AA301
  05              EM00-FST      PICTURE X.                  *AA301
01                STOP-FIELDS-HELP.                         *AA400
  02              C-HELP-LE.                                *AA400
    05            C-HELP-LIBRA  PICTURE XXX.                *AA400
    05            C-HELP-ERCOD  PICTURE XXX.                *AA400
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        05          C-HELP-PROGR  PICTURE X(6).              *AA400
        05          C-HELP-ENTYP  PICTURE X.                 *AA400
     02             HELP-LIENT    PICTURE X(36) VALUE SPACE. *AA400
     02             HELP-LIBEC    PICTURE X(30) VALUE SPACE. *AA400
  01                7-HELP-LIBEL.                            *AA400
     05             7-HELP-ERMS.                             *AA400
       10           7-HELP-ERMSG.                            *AA400
         15         7-HELP-ERMSG1 PICTURE X(12).             *AA400
         15         7-HELP-ERMSG2 PICTURE X(18).             *AA400
       10           7-HELP-ERMSC  PICTURE X(36).             *AA400
  01                SCREEN-LIGNE.                            *AA400
     05             7-HELP-ERMSGD PICTURE X(74).             *AA400
     05             7-HELP-CODIF  REDEFINES 7-HELP-ERMSGD.   *AA400
       10           7-HELP-VALRU  PICTURE X(12).             *AA400
       10           FILLER        PICTURE X.                 *AA400
       10           7-HELP-SIGNI.                            *AA400
         15         FILLER        PICTURE X(18).             *AA400
         15         7-HELP-ERMSC1 PICTURE X(43).             *AA400
     05             7-HELP-DOCUM  REDEFINES 7-HELP-ERMSGD.   *AA400
       10           7-HELP-XEMKY.                            *AA400
         15         FILLER        PICTURE XXX.               *AA400
         15         7-HELP-ERTYP  PICTURE X.                 *AA400
         15         FILLER        PICTURE X.                 *AA400
       10           7-HELP-LITAC  PICTURE X(69).             *AA400
  01                XZ00.                                    *AA400
     10             XZ00-EMKEY    PICTURE X(17).             *AA400
     10             XZ00-ERLVL    PICTURE X.                 *AA400
     10             XZ00-ERMSG    PICTURE X(66).             *AA400
     10             FILLER        PICTURE X(6).              *AA400
  LINKAGE SECTION.                                           DOHELP
  COPY TDS-STORAGE.                                          *0Z010
  COPY CONSTANT-STORAGE.                                     *0Z015
  01                TRANSACTION-STORAGE.                     *0Z020
     02             K-SHELP-YMAT  PICTURE X.                 *00000
     02             K-SHELP-PROGR PICTURE X(6).              *00000
     02             K-SHELP-XTERM PICTURE X(12).             *00000
     02             CA00.                                    *00001
       10           CA00-CLECD.                              *00001
         15         CA00-NUCOM    PICTURE 9(5).              *00001
       10           CA00-CLECL1.                             *00001
         15         CA00-NUCLIE   PICTURE 9(8).              *00001
       10           CA00-ME00.                               *00001
         15         CA00-CLEME.                              *00001
           20       CA00-COPERS   PICTURE X(5).              *00001
           20       CA00-NUMORD   PICTURE XX.                *00001
         15         CA00-MESSA    PICTURE X(75).             *00001
       10           CA00-PREM     PICTURE X.                 *00001
       10           CA00-LANGU    PICTURE X.                 *00001
       10           CA00-RAISOC   PICTURE X(50).             *00001
     02             K-SHELP-CDOC  PICTURE X.                 *00002
     02             K-SHELP-PROGE PICTURE X(8).              *00002
     02             K-SHELP-LIBRA PICTURE XXX.               *00002
     02             K-SHELP-PROHE PICTURE X(8).              *00002
     02             K-SHELP-ERCOD.                           *00002
       05           K-SHELP-ERCOD9 PICTURE 999.             *00002
     02             K-SHELP-ERTYP PICTURE X.                 *00002
     02             K-SHELP-NULIX.                           *00002
       05           K-SHELP-LINUM PICTURE 999.               *00002
     02             K-SHELP-PFKEY PICTURE XX.                *00002
     02             FILLER        PICTURE X(0700).           *00002
  COMMUNICATION SECTION.                                     *90010
  CD  7-CD01      INPUT                                      *90020
      SYMBOLIC QUEUE          7-CD01-CTRAN                   *90030
      MESSAGE DATE            7-CD01-XDATE                   *90040
      MESSAGE TIME            7-CD01-XTIME                   *90050
      SYMBOLIC SOURCE         7-CD01-XTERM                   *90060
      TEXT LENGTH             7-CD01-XLOMES                  *90070
      END KEY                 7-CD01-XFINME                  *90080
      STATUS KEY              7-CD01-XMSTA.                  *90090
  CD  7-CD02      OUTPUT                                     *90100
      DESTINATION COUNT       7-CD02-XNDEST                  *90110
      TEXT LENGTH             7-CD02-XLOMES                  *90120
      STATUS KEY              7-CD02-XMSTA                   *90130
      ERROR  KEY              7-CD02-XMERR                   *90140
      SYMBOLIC DESTINATION    7-CD02-XTERM.                  *90150
  PROCEDURE DIVISION USING TDS-STORAGE CONSTANT-STORAGE      *99999
      TRANSACTION-STORAGE.                                   *99999
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*          ************************************          DOHELP
*          *                              *              DOHELP
*          *  INITIALIZATIONS             *              DOHELP
*          *                              *              DOHELP
*          ************************************          DOHELP
 F01.                                                    DOHELP
     EXIT.                                               DOHELP
 F0105.                                                  DOHELP
     MOVE ZERO TO K01.                                   DOHELP
 F0105-B.                                                DOHELP
     ADD 1 TO K01.                                       DOHELP
     MOVE SV-AT (K01) TO K02.                            DOHELP
     MOVE SV-ATTRI (K01) TO AT-HELP-ATTRI (K02)          DOHELP
     MOVE SV-ATTRP (K01) TO AT-HELP-ATTRP (K02)          DOHELP
     MOVE SV-ATTRC (K01) TO AT-HELP-ATTRC (K02).         DOHELP
     IF      K01  <  INT                                 DOHELP
        GO TO F0105-B.                                   DOHELP
 F0105-FN.                                               DOHELP
     EXIT.                                               DOHELP
 F0110.                                                  DOHELP
     MOVE ZERO TO CATX FT K50L.                          DOHELP
     MOVE "1" TO ICF OCF SCR-ER.                         DOHELP
     MOVE ZERO TO VALIDATION-TABLE-FIELDS.               DOHELP
     MOVE ZERO TO 7-CD01-XMSTA 7-CD02-XMSTA.             DOHELP
     MOVE SPACE TO CATM OPER OPERD CAT-ER.               DOHELP
     MOVE SPACE TO TABLE-OF-ATTRIBUTES.                  DOHELP
     MOVE ZERO TO CONFIGURATIONS.                        DOHELP
     MOVE SPACE TO XEMKY.                                DOHELP
     MOVE SYMBOLIC-QUEUE TO 7-CD01-CTRAN.                DOHELP
     IF      PROGR NOT = K-SHELP-PROGR                   DOHELP
        MOVE ZERO TO ICF.                                DOHELP
     IF      PRIOR-TPR = SPACE                           DOHELP
        MOVE ZERO TO ICF                                 DOHELP
        RECEIVE 7-CD01 MESSAGE INTO HELP-MPRIOR NO DATA  DOHELP
           MOVE "1" TO IK.                               DOHELP
     IF      PRIOR-TPR = SPACE                           DOHELP
        PERFORM F81ES THRU F81ES-FN                      DOHELP
        MOVE 7-CD01-XTERM TO K-SHELP-XTERM.              DOHELP
     MOVE LOW-VALUE TO O-HELP.                           DOHELP
     IF      ICF = ZERO                                  DOHELP
        PERFORM F8115 THRU F8115-FN.                     DOHELP
     MOVE "X" TO DE-AT (4, 001).                         DOHELP
     MOVE SPACE TO O-HELP-ERMSG (01).                    DOHELP
 F0110-FN.                                               DOHELP
     EXIT.                                               DOHELP
 F0120.                                                  DOHELP
     MOVE "1" TO OCF.                                    DOHELP
     IF      K-SHELP-CDOC  =  "D"                        DOHELP
        OR  K-SHELP-CDOC  =  "R"                         DOHELP
           MOVE "1" TO ICF                               DOHELP
           GO TO F0120-FN.                               DOHELP
     MOVE "A" TO OPER                                    DOHELP
     MOVE SPACE TO K-SHELP-ERTYP                         DOHELP
     MOVE ZERO TO K-SHELP-LINUM                          DOHELP
     MOVE "D" TO K-SHELP-CDOC                            DOHELP
     GO TO F3999-ITER-FT.                                DOHELP
 F0120-FN.                                               DOHELP
     EXIT.                                               DOHELP
 F01-FN.                                                 DOHELP
     EXIT.                                               DOHELP
*          ************************************          DOHELP
*          *                              *              DOHELP
*          *  RECEPTION                   *              DOHELP
*          *                              *              DOHELP
*          ************************************          DOHELP
 F05.                                                    DOHELP
     IF      ICF = ZERO                                  DOHELP
        GO TO END-OF-RECEPTION.                          DOHELP
 F0510.                                                  DOHELP
     PERFORM F81RE THRU F81RE-FN.                        DOHELP
     IF      ICF = ZERO                                  DOHELP
        GO TO END-OF-RECEPTION.                          DOHELP
     PERFORM F81ES THRU F81ES-FN.                        DOHELP
     MOVE 7-CD01-XTERM TO K-SHELP-XTERM.                 DOHELP
     MOVE 7-CD01-XLOMES TO CMES-IND1.                    DOHELP
     MOVE AT-HELP-MESSA TO CMES-YO00.                    DOHELP
     MOVE K-SHELP-YMAT TO CMES-YMAT.                     DOHELP
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            MOVE K-SHELP-PFKEY TO CMES-PFKEY.                   DOHELP
            MOVE 7-YCRER TO CMES-YCRE.                          DOHELP
            CALL PRCGI USING CMES-COMMUNICATION                 DOHELP
            IF      CMES-YR00  =  ALL "*"                       DOHELP
                MOVE ZERO TO ICF                                DOHELP
                GO TO END-OF-RECEPTION.                         DOHELP
            MOVE CMES-PFKEY TO I-PFKEY K-SHELP-PFKEY.           DOHELP
            IF      CMES-YCRE  =  7-YCREP                       DOHELP
                MOVE CMES-IND1 TO 7-CD02-XLOMES                 DOHELP
                MOVE 1 TO 7-CD02-XNDEST                         DOHELP
                MOVE K-SHELP-XTERM TO 7-CD02-XTERM              DOHELP
                SEND 7-CD02 FROM CMES-YR00 WITH EGI AFTER ADVANCING 0  DOHELP
            LINES                                               DOHELP
                    PERFORM F81ES THRU F81ES-FN                 DOHELP
                    GO TO F8Z10-G.                              DOHELP
            MOVE CMES-YR00 TO HELP-MESSO.                       DOHELP
            PERFORM F8155 THRU F8155-FN.                        DOHELP
            MOVE "A" TO OPER                                    DOHELP
            MOVE SPACE TO OPERD.                                DOHELP
        F0510-FN.                                               DOHELP
            EXIT.                                               DOHELP
        *       ************************************            DOHELP
        *       *                              *                DOHELP
        *       *  VALIDATION OF OPERATION CODE    *            DOHELP
        *       *                              *                DOHELP
        *       ************************************            DOHELP
        F0520.                                                  DOHELP
            IF      I-HELP-OPDOC  =  "E"                        DOHELP
                OR  "F"                                         DOHELP
                    MOVE K-SHELP-PROGE TO 5-HELP-PROGE          DOHELP
                    MOVE "O" TO OPER OPERD                      DOHELP
                    GO TO F0520-900.                            DOHELP
            IF      I-HELP-OPDOC  =  "T"                        DOHELP
                OR  "D"                                         DOHELP
                    MOVE SPACE TO K-SHELP-ERCOD K-SHELP-ERTYP   DOHELP
                    MOVE ZERO TO K-SHELP-LINUM                  DOHELP
                    MOVE "A" TO OPER                            DOHELP
                    GO TO F0520-900.                            DOHELP
            IF      I-HELP-OPDOC  =  "S"                        DOHELP
                MOVE "A" TO OPER                                DOHELP
                GO TO F0520-900.                                DOHELP
            MOVE "5" TO ER-HELP-OPDOC                           DOHELP
            MOVE "4" TO SCR-ER                                  DOHELP
            GO TO F3999-ITER-FT.                                DOHELP
        F0520-900.                                              DOHELP
            IF      OPER NOT  =  "A"                            DOHELP
                AND OPER NOT  =  "O"                            DOHELP
                    GO TO F3999-ITER-FT.                        DOHELP
        F0520-FN.                                               DOHELP
            EXIT.                                               DOHELP
        F05-FN.                                                 DOHELP
            EXIT.                                               DOHELP
        *       ************************************            DOHELP
        *       *                              *                DOHELP
        *       *  CATEGORY PROCESSING LOOP     *               DOHELP
        *       *                              *                DOHELP
        *       ************************************            DOHELP
        F10.                                                    DOHELP
            EXIT.                                               DOHELP
        F1010.                                                  DOHELP
            MOVE SPACE TO CATM.                                 DOHELP
            IF      CAT-ER  =  "E"                              DOHELP
                MOVE "4" TO SCR-ER                              DOHELP
                GO TO F3999-ITER-FT.                            DOHELP
            MOVE SPACE TO CAT-ER.                               DOHELP
            IF      CATX  =  "0"                                DOHELP
                MOVE "Z" TO CATX                                DOHELP
                GO TO F1010-FN.                                 DOHELP
        F1010-A.                                                DOHELP
            GO TO F3999-ITER-FT.                                DOHELP
        F1010-FN.                                               DOHELP
            EXIT.                                               DOHELP
        F10-FN.                                                 DOHELP
            EXIT.                                               DOHELP
        *       ************************************            DOHELP
        *       *                              *                DOHELP
        *       *  DATA ELEMENT VALIDATION      *               DOHELP
```

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     *           *                                        *          DOHELP
     *         **********************************                    DOHELP
     F20.                                                            DOHELP
        EXIT.                                                        DOHELP
     F20Z.                                                           DOHELP
        IF     CATX NOT  =  "Z"                                      DOHELP
           GO TO F20Z-FN.                                            DOHELP
     F20A7.                                                          DOHELP
        IF     I-HELP-OPDOC NOT  =  SPACE                            DOHELP
           MOVE "1" TO ER-HELP-OPDOC.                                DOHELP
     F20A7-FN.                                                       DOHELP
        EXIT.                                                        DOHELP
     F20Z-FN.                                                        DOHELP
        EXIT.                                                        DOHELP
     F20-FN.                                                         DOHELP
        EXIT.                                                        DOHELP
     F3999-ITER-FI.                                                  DOHELP
        GO TO F10.                                                   DOHELP
     F3999-ITER-FT.                                                  DOHELP
        EXIT.                                                        DOHELP
     F3999-FN.                                                       DOHELP
        EXIT.                                                        DOHELP
     F40.                                                            DOHELP
        IF     SCR-ER  >  "1"                                        DOHELP
           MOVE "A" TO OPER                                          DOHELP
           GO TO F40-FN.                                             DOHELP
     F40-A.                                                          DOHELP
        IF     OPERD NOT  =  SPACE                                   DOHELP
           MOVE OPERD TO OPER.                                       DOHELP
     F4005.                                                          DOHELP
        IF     OPER NOT  =  "O"                                      DOHELP
           GO TO F4005-FN.                                           DOHELP
        IF     K-SHELP-CDOC  =  "D"                                  DOHELP
           MOVE "2" TO K-SHELP-CDOC.                                 DOHELP
        IF     K-SHELP-CDOC  =  "R"                                  DOHELP
           MOVE "3" TO K-SHELP-CDOC.                                 DOHELP
        MOVE ZERO TO K-SHELP-LINUM.                                  DOHELP
        IF     K-SHELP-ERCOD  =  SPACE                               DOHELP
        OR  K-SHELP-ERCOD NOT NUMERIC                                DOHELP
              MOVE "001" TO K-SHELP-ERCOD.                           DOHELP
        IF     K-SHELP-ERCOD  >  "001"                               DOHELP
           SUBTRACT 1 FROM K-SHELP-ERCOD9.                           DOHELP
     F4005-FN.                                                       DOHELP
        EXIT.                                                        DOHELP
     F4010.                                                          DOHELP
        IF     OPER NOT  =  "A"                                      DOHELP
           GO TO F4010-FN.                                           DOHELP
        MOVE SPACE TO EM00-EMKEY                                     DOHELP
        MOVE K-SHELP-LIBRA TO EM00-LIBRA                             DOHELP
        MOVE "H" TO EM00-ENTYP                                       DOHELP
        MOVE K-SHELP-PROGR TO EM00-PROGR                            DOHELP
        MOVE K-SHELP-ERCOD TO EM00-ERCOD                             DOHELP
        MOVE K-SHELP-ERTYP TO EM00-ERTYP                             DOHELP
        MOVE K-SHELP-LINUM TO EM00-LINUM                             DOHELP
        MOVE EM00-EMKEY TO K-REM00-EMKEY (1).                        DOHELP
     F4010-FN.                                                       DOHELP
        EXIT.                                                        DOHELP
     *         **********************************                    DOHELP
     *         *                                   *                 DOHELP
     *         *  END OF TRANSACTION               *                 DOHELP
     *         *                                   *                 DOHELP
     *         **********************************                    DOHELP
     F4030.                                                          DOHELP
        IF     OPER NOT  =  "E"                                      DOHELP
           GO TO F4030-FN.                                           DOHELP
        MOVE SPACE TO NEXT-TPR                                       DOHELP
        MOVE 1 TO 7-CD02-XNDEST                                      DOHELP
        MOVE K-SHELP-XTERM TO 7-CD02-XTERM                           DOHELP
        MOVE END-MESSAGE TO CMES-YR00.                               DOHELP
        MOVE END-ATTR TO CMES-YO00.                                  DOHELP
        MOVE K-SHELP-YMAT TO CMES-YMAT.                              DOHELP
        MOVE 7-YCREF TO CMES-YCRE.                                   DOHELP
        CALL PRCGI USING CMES-COMMUNICATION                          DOHELP
        MOVE CMES-IND1 TO 7-CD02-XLOMES                              DOHELP
        SEND 7-CD02 FROM CMES-YR00 WITH EGI AFTER ADVANCING 0 LINES. DOHELP
     F4030-A.                                                        DOHELP
        EXIT PROGRAM.                                                DOHELP
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    F4030-FN.                                               DOHELP
        EXIT.                                               DOHELP
    *          **********************************          DOHELP
    *          *                              *             DOHELP
    *          *  TRANSFER TO ANOTHER SCREEN  *             DOHELP
    *          *                              *             DOHELP
    *          **********************************          DOHELP
    F4040.                                                  DOHELP
        IF     OPER NOT  =   "O"                            DOHELP
            GO TO F4040-FN.                                 DOHELP
        MOVE 5-HELP-PROGE TO NEXT-TPR.                      DOHELP
    F4040-A.                                                DOHELP
        EXIT PROGRAM.                                       DOHELP
    F4040-FN.                                               DOHELP
        EXIT.                                               DOHELP
    F40-FN.                                                 DOHELP
        EXIT.                                               DOHELP
    END-OF-RECEPTION.                                       DOHELP
        EXIT.                                               DOHELP
    *          **********************************          DOHELP
    *          *                              *             DOHELP
    *          *  DISPLAY PREPARATION         *             DOHELP
    *          *                              *             DOHELP
    *          **********************************          DOHELP
    F50.                                                    DOHELP
        IF     OCF  =  "0"                                  DOHELP
            GO TO END-OF-DISPLAY.                           DOHELP
    F5010.                                                  DOHELP
        MOVE ZERO TO CATX.                                  DOHELP
        MOVE ZERO TO CONFIGURATIONS.                        DOHELP
        MOVE ALL "1" TO FIRST-ON-SEGMENT.                   DOHELP
        IF     SCR-ER  >  "1"                               DOHELP
            MOVE LOW-VALUE TO HELP-MESSO.                   DOHELP
        IF     SCR-ER  >  "1"                               DOHELP
            GO TO F6999-ITER-FT.                            DOHELP
        MOVE SPACE TO O-HELP.                               DOHELP
        PERFORM F8115 THRU F8115-FN.                        DOHELP
    F5010-FN.                                               DOHELP
        EXIT.                                               DOHELP
    F5020.                                                  DOHELP
        IF     K-SHELP-ERTYP NOT  =  SPACE                  DOHELP
            NEXT SENTENCE                                   DOHELP
        ELSE                                                DOHELP
            GO TO F5020-FN.                                 DOHELP
        MOVE SPACE TO EM00-ERTYP.                           DOHELP
        IF     K-SHELP-ERCOD  <  "001"                      DOHELP
            MOVE SPACE TO EM00-ERCOD.                       DOHELP
        MOVE ZERO TO EM00-LINUM                             DOHELP
        PERFORM F80-EM00-P THRU F80-FN.                     DOHELP
        IF     IK  =  "1"                                   DOHELP
            GO TO F5020-FN.                                 DOHELP
        IF     EM00-ERCOD NOT  =  SPACE                     DOHELP
            MOVE EM00-ERMSG TO 7-HELP-ERMS                  DOHELP
            MOVE 7-HELP-ERMSC TO HELP-LIENT                 DOHELP
            MOVE "DOCUMENTATION OF DATA ELEMENT " TO HELP-LIBEC  DOHELP
        ELSE                                                DOHELP
            MOVE EM00-ERMSG TO HELP-LIENT                   DOHELP
            MOVE "DOCUMENTATION OF THE SCREEN   " TO HELP-LIBEC.  DOHELP
    F5020-FN.                                               DOHELP
        EXIT.                                               DOHELP
    F50-FN.                                                 DOHELP
        EXIT.                                               DOHELP
    *          **********************************          DOHELP
    *          *                              *             DOHELP
    *          *  CATEGORY PROCESSING LOOP    *             DOHELP
    *          *                              *             DOHELP
    *          **********************************          DOHELP
    F55.                                                    DOHELP
        EXIT.                                               DOHELP
    F5510.                                                  DOHELP
        MOVE SPACE TO CAT-ER.                               DOHELP
        IF     CATX  =  "0"                                 DOHELP
            MOVE " " TO CATX                                DOHELP
            GO TO F5510-FN.                                 DOHELP
        IF     CATX  =  " "                                 DOHELP
            MOVE "R" TO CATX                                DOHELP
            MOVE ZERO TO ICATR.                             DOHELP
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          IF      CATX  NOT  =  "R"                                DOHELP
              OR  ICATR  >  IRR                                    DOHELP
                  GO TO F5510-R.                                   DOHELP
          IF      ICATR  >  ZERO                                   DOHELP
              MOVE O-HELP-LIGNE TO P-HELP-LIGNE (ICATR).           DOHELP
          ADD 1 TO ICATR.                                         DOHELP
          IF      ICATR  NOT  >  IRR                               DOHELP
              MOVE P-HELP-LIGNE (ICATR) TO O-HELP-LIGNE.           DOHELP
          GO TO F5510-FN.                                          DOHELP
      F5510-R.                                                     DOHELP
          EXIT.                                                    DOHELP
      F5510-Z.                                                     DOHELP
          IF      CATX  =  "R"                                     DOHELP
              MOVE "Z" TO CATX                                     DOHELP
              GO TO F5510-FN.                                      DOHELP
      F5510-900.                                                   DOHELP
          GO TO F6999-ITER-FT.                                     DOHELP
      F5510-FN.                                                    DOHELP
          EXIT.                                                    DOHELP
      F55-FN.                                                      DOHELP
          EXIT.                                                    DOHELP
      *      **********************************                    DOHELP
      *      *                                *                    DOHELP
      *      *  SEGMENT ACCESS FOR DISPLAY    *                    DOHELP
      *      *                                *                    DOHELP
      *      **********************************                    DOHELP
      F60.                                                         DOHELP
          EXIT.                                                    DOHELP
      F60R.                                                        DOHELP
          IF      CATX  NOT  =  "R"                                DOHELP
              OR  FT  =  "1"                                       DOHELP
                  GO TO F60R-FN.                                   DOHELP
      F60R-FN.                                                     DOHELP
          EXIT.                                                    DOHELP
      F6010.                                                       DOHELP
          IF      CATX  NOT  =  "R"                                DOHELP
              OR  FT  =  "1"                                       DOHELP
                  GO TO F6010-FN.                                  DOHELP
          MOVE "0" TO EM00-CF.                                     DOHELP
          IF      EM00-FST  =  "1"                                 DOHELP
              MOVE K-REM00-EMKEY (1) TO EM00-EMKEY                 DOHELP
              MOVE EM00-LIBRA TO C-HELP-LIBRA                      DOHELP
              MOVE EM00-ENTYP TO C-HELP-ENTYP                      DOHELP
              MOVE EM00-PROGR TO C-HELP-PROGR                      DOHELP
              MOVE EM00-ERCOD TO C-HELP-ERCOD                      DOHELP
              PERFORM F80-EM00-P THRU F80-FN                       DOHELP
              MOVE ZERO TO EM00-FST                                DOHELP
          ELSE                                                     DOHELP
              PERFORM F80-EM00-RN THRU F80-FN.                     DOHELP
          IF      IK  =  "0"                                       DOHELP
              IF EM00-LIBRA NOT  =  C-HELP-LIBRA                   DOHELP
                  OR  EM00-ENTYP NOT  =  C-HELP-ENTYP              DOHELP
                  OR  EM00-PROGR NOT  =  C-HELP-PROGR              DOHELP
                      MOVE "1" TO IK.                              DOHELP
          IF      IK  =  "1"                                       DOHELP
              MOVE "G109" TO XERCD                                 DOHELP
              MOVE "1" TO FT                                       DOHELP
              PERFORM F81UT THRU F81UT-FN                          DOHELP
              GO TO F6010-FN.                                      DOHELP
          MOVE "1" TO EM00-CF.                                     DOHELP
          MOVE EM00-ERCOD TO K-SHELP-ERCOD                         DOHELP
          MOVE EM00-ERTYP TO K-SHELP-ERTYP                         DOHELP
          MOVE EM00-LINUM TO K-SHELP-LINUM.                        DOHELP
          IF      EM00-ERCOD NOT  =  C-HELP-ERCOD                  DOHELP
              AND EM00-ERCOD  >  "000"                             DOHELP
                  MOVE "1" TO FT                                   DOHELP
                  GO TO F6010-FN.                                  DOHELP
          IF      EM00-ERTYP  =  SPACE                             DOHELP
              NEXT SENTENCE                                        DOHELP
          ELSE                                                     DOHELP
              GO TO F6010-FN.                                      DOHELP
          IF      EM00-ERCOD  >  ZERO                              DOHELP
              MOVE EM00-ERMSG TO 7-HELP-ERMS                       DOHELP
              MOVE 7-HELP-ERMSC TO HELP-LIENT                      DOHELP
              MOVE "DOCUMENTATION OF DATA ELEMENT " TO HELP-LIBEC  DOHELP
          ELSE                                                     DOHELP
              MOVE EM00-ERMSG TO HELP-LIENT                        DOHELP
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          MOVE "DOCUMENTATION OF THE SCREEN   " TO HELP-LIBEC.    DOHELP
      GO TO F6010.                                               DOHELP
  F6010-FN.                                                      DOHELP
      EXIT.                                                      DOHELP
  F60-FN.                                                        DOHELP
      EXIT.                                                      DOHELP
 *        ************************************                   DOHELP
 *        *                                  *                   DOHELP
 *        *  DATA ELEMENT TRANSFER        *                      DOHELP
 *        *                                  *                   DOHELP
 *        ************************************                   DOHELP
  F65.                                                           DOHELP
      EXIT.                                                      DOHELP
  F6520.                                                         DOHELP
      IF      FT  =  "1"                                         DOHELP
          OR  EM00-ERTYP  =  " "                                 DOHELP
          GO TO F6520-FN.                                        DOHELP
      IF      ICATR  >  IRR                                      DOHELP
          GO TO F6520-FN.                                        DOHELP
      MOVE SPACE TO 7-HELP-ERMSGD.                               DOHELP
      IF      EM00-ERTYP  =  "1"                                 DOHELP
          MOVE EM00-ERMSG TO 7-HELP-ERMS                         DOHELP
          MOVE 7-HELP-ERMSG2 TO 7-HELP-SIGNI                     DOHELP
          MOVE 7-HELP-ERMSC TO 7-HELP-ERMSC1                     DOHELP
          MOVE 7-HELP-ERMSG1 TO 7-HELP-VALRU                     DOHELP
          GO TO F6520-900.                                       DOHELP
      IF      EM00-ERTYP  =  "0"                                 DOHELP
          MOVE SPACE TO 7-HELP-XEMKY                             DOHELP
          MOVE EM00-ERMSG TO 7-HELP-LITAC                        DOHELP
          GO TO F6520-900.                                       DOHELP
      MOVE EM00-ERMSG TO 7-HELP-LITAC.                           DOHELP
      IF      EM00-LINUM NOT  =  ZERO                            DOHELP
          GO TO F6520-900.                                       DOHELP
      MOVE EM00-ERCOD TO 7-HELP-XEMKY                            DOHELP
      MOVE EM00-ERTYP TO 7-HELP-ERTYP.                           DOHELP
  F6520-900.                                                     DOHELP
      MOVE 7-HELP-ERMSGD TO O-HELP-ERMSGD.                       DOHELP
  F6520-FN.                                                      DOHELP
      EXIT.                                                      DOHELP
  F6530.                                                         DOHELP
      IF      CATX NOT  =  "Z"                                   DOHELP
          GO TO F6530-FN.                                        DOHELP
      MOVE HELP-LIENT TO O-HELP-LIENT                            DOHELP
      MOVE HELP-LIBEC TO O-HELP-LIBEC.                           DOHELP
      MOVE "CHOICE............:" TO O-HELP-LICHOI                 DOHELP
      MOVE "(E: END - T: TOP - S: NEXT)   " TO O-HELP-LIOPT.     DOHELP
      IF      XERCD NOT  =  "G109"                               DOHELP
          MOVE "S" TO O-HELP-OPDOC                               DOHELP
          GO TO F6530-FN.                                        DOHELP
      MOVE "E" TO O-HELP-OPDOC.                                  DOHELP
      IF      K-SHELP-ERCOD NUMERIC                              DOHELP
          AND K-SHELP-ERCOD  >  ZERO                             DOHELP
              ADD 1 TO K-SHELP-ERCOD9.                           DOHELP
  F6530-FN.                                                      DOHELP
      EXIT.                                                      DOHELP
  F65-FN.                                                        DOHELP
      EXIT.                                                      DOHELP
  F6999-ITER-FI.                                                 DOHELP
      GO TO F55.                                                 DOHELP
  F6999-ITER-FT.                                                 DOHELP
      EXIT.                                                      DOHELP
  F6999-FN.                                                      DOHELP
      EXIT.                                                      DOHELP
  F70.                                                           DOHELP
      GO TO F7020.                                               DOHELP
 *        ************************************                   DOHELP
 *        *                                  *                   DOHELP
 *        *  ERROR PROCESSING             *                      DOHELP
 *        *                                  *                   DOHELP
 *        ************************************                   DOHELP
  F7010.                                                         DOHELP
      MOVE ZERO TO K01 K02 K04                                   DOHELP
      MOVE 1 TO K03.                                             DOHELP
      MOVE LIBRA TO EM00-LIBRA                                   DOHELP
      MOVE PROGR TO EM00-PROGR                                   DOHELP
      MOVE ZERO TO EM00-LINUM                                    DOHELP
      MOVE "H" TO EM00-ENTYP.                                    DOHELP
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    F7010-A.                                                      DOHELP
        IF      K02 =  INR                                        DOHELP
            AND K03 <  IRR                                        DOHELP
                MOVE INA TO K02                                   DOHELP
                ADD 1 TO K03.                                     DOHELP
        ADD 1 TO K01 K02.                                         DOHELP
        IF      DE-ER (K01)  >  "1"                               DOHELP
            OR  <  "0"                                            DOHELP
                MOVE "Y" TO DE-AT (4, K01)                        DOHELP
                MOVE "B" TO DE-AT (1, K01)                        DOHELP
                MOVE "N" TO DE-AT (2, K01)                        DOHELP
                MOVE "W" TO DE-AT (3, K01)                        DOHELP
            IF K04  <  IER                                        DOHELP
                MOVE DE-ER (K01) TO EM00-ERTYP                    DOHELP
                MOVE K02 TO EM00-ERCOD9                           DOHELP
                MOVE EM00-XEMKY TO EM00-ERMSG                     DOHELP
                PERFORM F80-EM00-R THRU F80-FN                    DOHELP
                ADD 1 TO K04                                      DOHELP
                MOVE EM00-ERMSG TO O-HELP-ERMSG (K04).            DOHELP
        IF      K01 <  INT                                        DOHELP
            GO TO F7010-A.                                        DOHELP
        MOVE ZERO TO K50R.                                        DOHELP
    F7010-B.                                                      DOHELP
        ADD 1 TO K50R                                             DOHELP
        IF      K50R >  K50L                                      DOHELP
            OR  K04 NOT <  IER                                    DOHELP
                GO TO F7010-FN.                                   DOHELP
        MOVE T-XEMKY (K50R) TO EM00-XEMKY EM00-ERMSG             DOHELP
        PERFORM F80-EM00-R THRU F80-FN.                           DOHELP
        ADD 1 TO K04                                              DOHELP
        MOVE EM00-ERMSG TO O-HELP-ERMSG (K04)                     DOHELP
        GO TO F7010-B.                                            DOHELP
    F7010-FN.                                                     DOHELP
        EXIT.                                                     DOHELP
    *       **********************************                    DOHELP
    *       *                                *                    DOHELP
    *       *  POSITIONING OF ATTRIBUTES     *                    DOHELP
    *       *                                *                    DOHELP
    *       **********************************                    DOHELP
    F7020.                                                        DOHELP
        MOVE ZERO TO TALLY                                        DOHELP
        EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "Y".             DOHELP
        IF      TALLY NOT <  0001                                 DOHELP
            MOVE ZERO TO TALLY                                    DOHELP
            EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "Z".         DOHELP
        IF      TALLY NOT <  0001                                 DOHELP
            MOVE ZERO TO TALLY                                    DOHELP
            EXAMINE DE-ATT1 (4) TALLYING UNTIL FIRST "X".         DOHELP
        IF      TALLY NOT <  0001                                 DOHELP
            MOVE ZERO TO TALLY.                                   DOHELP
        ADD 1 TO TALLY.                                           DOHELP
        MOVE SV-AT (TALLY) TO K01                                 DOHELP
        MOVE AT-HELP-YPCUR (K01) TO CMES-YPCUR.                   DOHELP
        MOVE ZERO TO K01.                                         DOHELP
    F7020-A.                                                      DOHELP
        ADD 1 TO K01.                                             DOHELP
        IF      K01 >  INT                                        DOHELP
            GO TO F7020-FN.                                       DOHELP
        MOVE SV-AT (K01) TO K02.                                  DOHELP
        IF      SV-ATTRI (K01) =  "D"                             DOHELP
            AND DE-AT (1, K01) NOT =  "D"                         DOHELP
                MOVE "D" TO DE-AT (1, K01).                       DOHELP
        IF      DE-AT (1, K01) NOT =  SPACE                       DOHELP
            MOVE DE-AT (1, K01) TO AT-HELP-ATTRI (K02).           DOHELP
        IF      DE-AT (2, K01) NOT =  SPACE                       DOHELP
            MOVE DE-AT (2, K01) TO AT-HELP-ATTRP (K02).           DOHELP
        IF      DE-AT (3, K01) NOT =  SPACE                       DOHELP
            MOVE DE-AT (3, K01) TO AT-HELP-ATTRC (K02).           DOHELP
        GO TO F7020-A.                                            DOHELP
    F7020-FN.                                                     DOHELP
        EXIT.                                                     DOHELP
    F7030.                                                        DOHELP
        IF      ER-HELP-OPDOC =  "5"                              DOHELP
            MOVE "INVALID CHOICE" TO O-HELP-ERMSG (1).            DOHELP
        IF      XERCD =  "G109"                                   DOHELP
            MOVE "*** END ***  " TO O-HELP-ERMSG (1).             DOHELP
    F7030-FN.                                                     DOHELP
```

```
        EXIT.                                                    DOHELP
    F70-FN.                                                      DOHELP
        EXIT.                                                    DOHELP
    END-OF-DISPLAY.                                              DOHELP
        EXIT.                                                    DOHELP
    F8Z.                                                         DOHELP
        EXIT.                                                    DOHELP
    *        ***********************************                 DOHELP
    *        *                                 *                 DOHELP
    *        *  DISPLAY                        *                 DOHELP
    *        *                                 *                 DOHELP
    *        ***********************************                 DOHELP
    F8Z10.                                                       DOHELP
        IF     SCR-ER NOT  >  "1"                                DOHELP
           AND DE-AT (4, 001)  =  "X"                            DOHELP
               PERFORM F7020 THRU F7020-FN.                      DOHELP
        PERFORM F8145 THRU F8145-FN.                             DOHELP
        MOVE 1 TO 7-CD02-XNDEST                                  DOHELP
        MOVE K-SHELP-XTERM TO 7-CD02-XTERM.                      DOHELP
        MOVE 7-YCREX TO CMES-YCRE.                               DOHELP
        MOVE SPACE TO K-SHELP-PFKEY.                             DOHELP
        IF     SCR-ER NOT  >  "1"                                DOHELP
           MOVE 7-YCREE TO CMES-YCRE                             DOHELP
           PERFORM F8105 THRU F8105-FN.                          DOHELP
        MOVE HELP-MESSO TO CMES-YR00                             DOHELP
        MOVE AT-HELP-MESSA TO CMES-YO00                          DOHELP
        MOVE K-SHELP-YMAT TO CMES-YMAT                           DOHELP
        CALL PRCGI USING CMES-COMMUNICATION.                     DOHELP
        PERFORM F81SE THRU F81SE-FN.                             DOHELP
    F8Z10-G.                                                     DOHELP
        EXIT.                                                    DOHELP
    F8Z10-FN.                                                    DOHELP
        EXIT.                                                    DOHELP
    *        ***********************************                 DOHELP
    *        *                                 *                 DOHELP
    *        *  END OF PROGRAM                 *                 DOHELP
    *        *                                 *                 DOHELP
    *        ***********************************                 DOHELP
    F8Z20.                                                       DOHELP
        MOVE PROGE TO NEXT-TPR.                                  DOHELP
    F8Z20-A.                                                     DOHELP
        EXIT PROGRAM.                                            DOHELP
    F8Z20-FN.                                                    DOHELP
        EXIT.                                                    DOHELP
    F8Z-FN.                                                      DOHELP
        EXIT.                                                    DOHELP
    *        ***********************************                 DOHELP
    *        *                                 *                 DOHELP
    *        *  PHYSICAL SEGMENT ACCESS ROUTINES *               DOHELP
    *        *                                 *                 DOHELP
    *        ***********************************                 DOHELP
    F80.                                                         DOHELP
        EXIT.                                                    DOHELP
    F80-EM00-R.                                                  DOHELP
        READ EM-FILE INVALID KEY                                 DOHELP
            GO TO F80-KO.                                        DOHELP
        GO TO F80-OK.                                            DOHELP
    F80-EM00-RU.                                                 DOHELP
        READ EM-FILE INVALID KEY                                 DOHELP
            GO TO F80-KO.                                        DOHELP
        GO TO F80-OK.                                            DOHELP
    F80-EM00-P.                                                  DOHELP
        START EM-FILE KEY NOT  <  EM00-EMKEY INVALID KEY         DOHELP
            GO TO F80-KO.                                        DOHELP
    F80-EM00-RN.                                                 DOHELP
        READ EM-FILE                                             DOHELP
            NEXT AT END                                          DOHELP
            GO TO F80-KO.                                        DOHELP
        GO TO F80-OK.                                            DOHELP
    F8001-FN.                                                    DOHELP
        EXIT.                                                    DOHELP
    F80-OK.                                                      DOHELP
        MOVE "0" TO IK                                           DOHELP
        MOVE PROGR TO XPROGR                                     DOHELP
        GO TO F80-FN.                                            DOHELP
    F80-KO.                                                      DOHELP
        MOVE "1" TO IK                                           DOHELP
```

```
        MOVE PROGR TO XPROGR.                                      DOHELP
    F8099-FN.                                                      DOHELP
        EXIT.                                                      DOHELP
    F80-FN.                                                        DOHELP
        EXIT.                                                      DOHELP
    F81.                                                           DOHELP
        EXIT.                                                      DOHELP
    *        ***********************************                   DOHELP
    *        *                                 *                   DOHELP
    *        *  ABNORMAL END PROCEDURE         *                   DOHELP
    *        *                                 *                   DOHELP
    *        ***********************************                   DOHELP
    F81ER.                                                         DOHELP
        CALL "ABORT".                                              DOHELP
    F81ER-FN.                                                      DOHELP
        EXIT.                                                      DOHELP
    F81ES.                                                         DOHELP
        IF     7-CD01-XMSTA NOT  =  ZERO                           DOHELP
           OR  7-CD02-XMSTA NOT  =  ZERO                           DOHELP
               CALL "ABORT".                                       DOHELP
    F81ES-FN.                                                      DOHELP
        EXIT.                                                      DOHELP
    F81RE.                                                         DOHELP
        MOVE SPACE TO CMES-YR00                                    DOHELP
        RECEIVE 7-CD01 MESSAGE INTO CMES-YR00 NO DATA              DOHELP
            MOVE SPACE TO HELP-MESSI                               DOHELP
            MOVE 7-CD01-XTERM TO K-SHELP-XTERM                     DOHELP
            MOVE ZERO TO ICF.                                      DOHELP
    F81RE-FN.                                                      DOHELP
        EXIT.                                                      DOHELP
    F81SE.                                                         DOHELP
        MOVE CMES-IND1 TO 7-CD02-XLOMES                            DOHELP
        SEND 7-CD02 FROM CMES-YR00 WITH EGI AFTER ADVANCING 0 LINES DOHELP
            PERFORM F81ES THRU F81ES-FN.                           DOHELP
    F81SE-FN.                                                      DOHELP
        EXIT.                                                      DOHELP
    *        ***********************************                   DOHELP
    *        *                                 *                   DOHELP
    *        *  MEMORIZATION OF USER'S ERRORS  *                   DOHELP
    *        *                                 *                   DOHELP
    *        ***********************************                   DOHELP
    F81UT.                                                         DOHELP
        IF     K50L  <  K50M                                       DOHELP
            ADD 1 TO K50L                                          DOHELP
            MOVE XEMKY TO T-XEMKY (K50L).                          DOHELP
        MOVE "E" TO CAT-ER.                                        DOHELP
    F81UT-FN.                                                      DOHELP
        EXIT.                                                      DOHELP
    F8105.                                                         DOHELP
        IF     CMES-YCRE  =  "G"                                   DOHELP
            GO TO F8105-FN.                                        DOHELP
        MOVE "          " TO S01002.                               DOHELP
    F8105-FN.                                                      DOHELP
        EXIT.                                                      DOHELP
    F8115.                                                         DOHELP
        EXIT.                                                      DOHELP
    F8115-FN.                                                      DOHELP
        EXIT.                                                      DOHELP
    F8145.                                                         DOHELP
        MOVE T03002 TO S03002.                                     DOHELP
        MOVE T03033 TO S03033.                                     DOHELP
        MOVE T05004 TO S05004.                                     DOHELP
        MOVE T06004 TO S06004.                                     DOHELP
        MOVE T07004 TO S07004.                                     DOHELP
        MOVE T08004 TO S08004.                                     DOHELP
        MOVE T09004 TO S09004.                                     DOHELP
        MOVE T10004 TO S10004.                                     DOHELP
        MOVE T11004 TO S11004.                                     DOHELP
        MOVE T12004 TO S12004.                                     DOHELP
        MOVE T13004 TO S13004.                                     DOHELP
        MOVE T14004 TO S14004.                                     DOHELP
        MOVE T15004 TO S15004.                                     DOHELP
        MOVE T16004 TO S16004.                                     DOHELP
        MOVE T17004 TO S17004.                                     DOHELP
        MOVE T18004 TO S18004.                                     DOHELP
        MOVE T19004 TO S19004.                                     DOHELP
        MOVE T20004 TO S20004.                                     DOHELP
```

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```
        MOVE T21004 TO S21004.                              DOHELP
        MOVE T23002 TO S23002.                              DOHELP
        MOVE T23022 TO S23022.                              DOHELP
        MOVE T23028 TO S23028.                              DOHELP
        MOVE T24002 TO S24002.                              DOHELP
    F8145-FN.                                               DOHELP
        EXIT.                                               DOHELP
    F8155.                                                  DOHELP
        MOVE S23022 TO R23022.                              DOHELP
    F8155-FN.                                               DOHELP
        EXIT.                                               DOHELP
    F81-FN.                                                 DOHELP
        EXIT.                                               DOHELP
```

8. SCREEN GENERATED USING ORACLE V6 SQL

8.1. EXAMPLE SCREEN

<u>INTRODUCTION</u>

This chapter presents the COBOL lines automatically generated when a screen accesses an ORACLE V6 relational database.

The PROCEDURE DIVISION is not shown in full since functionalities are similar to those presented in the general example. This chapter only presents the specific parts of the WORKING STORAGE SECTION and related functions.

PROGRAM GENERATION

To generate On-line programs it may be necessary to use the complementary screens:

  . Work Areas (-W),

  . Call of Macro-structures (-CP).

On Work Areas (-W) screens, 'AA' is a reserved value for the code FOR COBOL PLACEMENT; It is used internally by the OLSD Function.

The automatically generated lines are identified in the COBOL code by the '*AAnnn' character string from columns 72 to 80. They can be overridden on the Work Areas (-W) screen on 'AAnnn'-numbered lines.

The user can use the General Documentation (-G) lines of the screen or dialogue to override the value of some generated constants. For more details, refer to Chapter 'DESCRIPTION OF A TRANSACTION', Subchapter 'SCREEN GENERAL DOCUMENTATION (-G)' in the OLSD Reference Manual.

SCREEN GENERATED USING ORACLE V6 SQL   8

EXAMPLE SCREEN   1

```
--------------------------------------------------------------------------------
!                    BULL DPS7 APPLICATION                    *PDLB.NDOC.AD7.247!
! ON-LINE SCREEN CALL OF SEGM.                                                  !
! .............................................................................!
! A SEGM       :   USE PREC ACCESS KEY      ACCESS    D EXTERNAL LIB. S   : LIB!
! C CODE C LN  : G R D SEGM SOURCE          KEY    B O T NAME    SEGM N LV :    !
! . DZ05 R 00  :   X A                      COCARA   P 1 QPBLOC  DZ05      : *DCC!
! . DZ05 R 02  :                            NUCOD                         : *DCC!
! . DZ05 R 04  :                            FOURNI                        : *DCC!
! . DZ10 R 00  :   X A                      COCARA   P 1 QPBLOC  DZ10      : *DCC!
! . DZ10 R 02  :                            NUCOM                         : *DCC!
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
!              :                                                          :    !
! *** END ***                                                                   !
! O: C1 CH:                                                                     !
--------------------------------------------------------------------------------
```

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8.2. WORKING-STORAGE SECTION

<u>WORKING-STORAGE SECTION</u>

The WORKING-STORAGE section includes:

- The description of input/output fields (Host variables).

> The segment descriptions are located between the SQL orders: 'BEGIN DECLARE SECTION' and 'END DECLARE SECTION'.

> In a Segment description, only the Data Elements of elementary level are present.

> For the variable Data Elements (VARCHAR) called in a 'FFnn' code Segment (Data Elements with 'V', 'L' or 'W' in the key area of the segment description), the following lines are generated:

```
ffnn-DELCO PICTURE ...
          VARYING.
```

> The LFFnn-delco field must be input with the real length of the field before updating.

- Presence validation keys: each field (delco) of a table or a SQL view (FFnn) is associated with a presence validation key (VFFnnDelco or V-FFnn-Delco if the SQLREF option is indicated in Dialogue complement (-O)).

> The descriptions of the presence validation keys are generated in WORKING-STORAGE, just after the segments and before the command END DECLARE SECTION. The SQLIND option, input by the user in Dialogue complement, allows for the management of those keys in update and display. The keys are initialized in function F30 and conditioned for transfer in DISPLAY by the column presence (for columns which can be null).

- The SQL command 'INCLUDE SQLCA' is systematically generated.

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```
           EXEC SQL BEGIN DECLARE SECTION END-EXEC.              DOSQLP
    01            USERID        PICTURE X(08).                   DOSQLP
    01            PASSWORD      PICTURE X(08).                   DOSQLP
    01            DZ05.                                          DOSQLP
      05          DZ05-COCARA   PICTURE X.                       DOSQLP
      05          DZ05-NUCOD    COMPUTATIONAL-1.                 DOSQLP
      05          DZ05-FOURNI   PICTURE X(3).                    DOSQLP
      05          DZ05-NUCLIE   PICTURE 9(8).                    DOSQLP
      05          DZ05-DATE     PICTURE X(6).                    DOSQLP
      05          DZ05-RELEA    PICTURE X(3).                    DOSQLP
      05          VDZ05-REFCLI.                                  DOSQLP
        49        LDZ05-REFCLI  COMP-1.                          DOSQLP
        49        DZ05-REFCLI   PICTURE X(30).                   DOSQLP
      05          VDZ05-RUE.                                     DOSQLP
        49        LDZ05-RUE     COMP-1.                          DOSQLP
        49        DZ05-RUE      PICTURE X(40).                   DOSQLP
      05          DZ05-COPOS    PICTURE X(5).                    DOSQLP
      05          VDZ05-VILLE.                                   DOSQLP
        49        LDZ05-VILLE   COMP-1.                          DOSQLP
        49        DZ05-VILLE    PICTURE X(20).                   DOSQLP
      05          VDZ05-CORESP.                                  DOSQLP
        49        LDZ05-CORESP  COMP-1.                          DOSQLP
        49        DZ05-CORESP   PICTURE X(256).                  DOSQLP
      05          DZ05-REMISE   PICTURE S9(4)V99 COMPUTATIONAL.  DOSQLP
      05          VDZ05-MATE.                                    DOSQLP
        49        LDZ05-MATE    COMP-1.                          DOSQLP
        49        DZ05-MATE     PICTURE X(8).                    DOSQLP
      05          DZ05-PRIX1    COMPUTATIONAL-2.                 DOSQLP
      05          DZ05-HEURE    PICTURE X(8).                    DOSQLP
      05          DZ05-PRECIS   PICTURE X(26).                   DOSQLP
    01            DZ10.                                          DOSQLP
      05          DZ10-COCARA   PICTURE X.                       DOSQLP
      05          DZ10-NUCOM    PICTURE 9(5).                    DOSQLP
      05          DZ10-FOURNP   PICTURE X(3).                    DOSQLP
      05          DZ10-QTMLI    COMPUTATIONAL-1.                 DOSQLP
      05          DZ10-QTMCO    COMPUTATIONAL-1.                 DOSQLP
      05          VDZ10-INFOR.                                   DOSQLP
        49        LDZ10-INFOR   COMP-1.                          DOSQLP
        49        DZ10-INFOR    PICTURE X(35).                   DOSQLP
    01            VDZ05.                                         DOSQLP
      05          VDZ05COCARA   COMP-1.                          DOSQLP
      05          VDZ05NUCOD    COMP-1.                          DOSQLP
      05          VDZ05FOURNI   COMP-1.                          DOSQLP
      05          VDZ05NUCLIE   COMP-1.                          DOSQLP
      05          VDZ05DATE     COMP-1.                          DOSQLP
      05          VDZ05RELEA    COMP-1.                          DOSQLP
      05          VDZ05REFCLI   COMP-1.                          DOSQLP
      05          VDZ05RUE      COMP-1.                          DOSQLP
      05          VDZ05COPOS    COMP-1.                          DOSQLP
      05          VDZ05VILLE    COMP-1.                          DOSQLP
      05          VDZ05CORESP   COMP-1.                          DOSQLP
      05          VDZ05REMISE   COMP-1.                          DOSQLP
      05          VDZ05MATE     COMP-1.                          DOSQLP
      05          VDZ05PRIX1    COMP-1.                          DOSQLP
      05          VDZ05HEURE    COMP-1.                          DOSQLP
      05          VDZ05PRECIS   COMP-1.                          DOSQLP
    01            VDZ10.                                         DOSQLP
      05          VDZ10COCARA   COMP-1.                          DOSQLP
      05          VDZ10NUCOM    COMP-1.                          DOSQLP
      05          VDZ10FOURNP   COMP-1.                          DOSQLP
      05          VDZ10QTMLI    COMP-1.                          DOSQLP
      05          VDZ10QTMCO    COMP-1.                          DOSQLP
      05          VDZ10INFOR    COMP-1.                          DOSQLP
           EXEC SQL END   DECLARE SECTION END-EXEC.              DOSQLP
           EXEC SQL INCLUDE SQLCA        END-EXEC.               DOSQLP
```

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8.3. COMMUNICATION AREA

<u>COMMUNICATION AREA</u>

After the description of the common area (CA00), display keys are grouped by category under the K-eeee level.

All Data Elements declared as display Segment keys in the Screen Call of Segments (-CS) are present and independently located on level 05.

They are also independently input in the PROCEDURE DIVISION.

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```
    LINKAGE SECTION.                                            DOSQLP
    COPY TDS-STORAGE.                                           *0Z010
    COPY CONSTANT-STORAGE.                                      *0Z015
    01             TRANSACTION-STORAGE.                         *0Z020
      02           K-SSQLP-YMAT  PICTURE X.                     *00000
      02           K-SSQLP-PROGR PICTURE X(6).                  *00000
      02           K-SSQLP-XTERM PICTURE X(12).                 *00000
      02           CA00.                                        *00001
        10         CA00-CLECD.                                  *00001
          15       CA00-NUCOM    PICTURE 9(5).                  *00001
        10         CA00-CLECL1.                                 *00001
          15       CA00-NUCLIE   PICTURE 9(8).                  *00001
        10         CA00-ME00.                                   *00001
          15       CA00-CLEME.                                  *00001
            20     CA00-COPERS   PICTURE X(5).                  *00001
            20     CA00-NUMORD   PICTURE XX.                    *00001
          15       CA00-MESSA    PICTURE X(75).                 *00001
        10         CA00-PREM     PICTURE X.                     *00001
        10         CA00-LANGU    PICTURE X.                     *00001
        10         CA00-RAISOC   PICTURE X(50).                 *00001
      02           K-SSQLP-DOC   PICTURE X.                     *00002
      02           K-SSQLP-PROGE PICTURE X(8).                  *00002
      02           K-SSQLP-LIBRA PICTURE XXX.                   *00002
      02           K-SSQLP-PROHE PICTURE X(8).                  *00002
      02           K-SSQLP-ERCOD.                               *00002
        05         K-SSQLP-ERCOD9 PICTURE 999.                  *00002
      02           K-SSQLP-ERTYP PICTURE X.                     *00002
      02           K-SSQLP-LINUM PICTURE 999.                   *00002
      02           K-SSQLP-PFKEY PICTURE XX.                    *00002
      02           K-SQLP.                                      *00002
        05         K-RDZ05-COCARA PICTURE X.                    *00002
        05         K-RDZ05-NUCOD PICTURE S9(3) COMPUTATIONAL-1. *00002
        05         K-RDZ05-FOURNI PICTURE X(3).                 *00002
        05         K-RDZ10-COCARA PICTURE X.                    *00002
        05         K-RDZ10-NUCOM PICTURE 9(5).                  *00002
      02           FILLER        PICTURE X(0676).               *00002
```

8.4. PROCEDURE DIVISION

CALLED SQL VALIDATION FUNCTIONS : F0B

PROCESSING OF THE ABNORMAL END

The F0B function processes SQL errors.

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PROCEDURE DIVISION   4

```
    F0B.                                                    DOSQLP
        EXEC SQL WHENEVER NOT FOUND GO TO F80-KO            DOSQLP
               END-EXEC.                                    DOSQLP
        EXEC SQL WHENEVER SQLWARNING CONTINUE               DOSQLP
               END-EXEC.                                    DOSQLP
        EXEC SQL WHENEVER SQLERROR GO TO F81EQ              DOSQLP
               END-EXEC.                                    DOSQLP
    F0B-FN.                                                 DOSQLP
        EXIT.                                               DOSQLP
```

DECLARE CURSOR : F0C

This function contains the SQL statements corresponding to the cursor declaration when a table is used in display in the repetitive category.

. The clause FROM "external table name" names the external table or view called in the description of the Database Block (-DR). By default this external name is found in the Segment definition screen. The Database Block code is indicated in the EXTERNAL NAME field of the Screen Call of Segments (-CS).

. The clause WHERE ... ORDER lists the key Data Elements in the order found on the Screen Call of Segments (-CS).

```
     F0CDZ.                                                   DOSQLP
         EXEC SQL DECLARE DISPLAY_DZ05                        DOSQLP
                 CURSOR FOR SELECT ALL COCARA , NUCOD , FOURNI ,   DOSQLP
         NUCLIE , TO_CHAR(DATE,'DDMMYY') , RELEA , REFERENCECLIENT ,  DOSQLP
         RUE , COPOS , VILLE , CORESP , REMISE , MATERIEL , PRIX1 ,   DOSQLP
         TO_CHAR(HEURE,'DD/MM/YY') , PRECIS                   DOSQLP
                 FROM DODZ05 WHERE COCARA  >  :DZ05-COCARA OR    DOSQLP
         (COCARA  =  :DZ05-COCARA AND NUCOD  >  :DZ05-NUCOD) OR   DOSQLP
         (COCARA  =  :DZ05-COCARA AND NUCOD  =  :DZ05-NUCOD AND FOURNIDOSQLP
         >= :DZ05-FOURNI) ORDER BY COCARA, NUCOD, FOURNI     DOSQLP
                 END-EXEC.                                    DOSQLP
         EXEC SQL DECLARE DISPLAY_DZ10                        DOSQLP
                 CURSOR FOR SELECT ALL COCARA , NUCOM , FOURNP ,   DOSQLP
         LIVRABLE , QUANTITE-COMMANDEE , INFOR                DOSQLP
                 FROM DODZ10 WHERE COCARA  >  :DZ10-COCARA OR    DOSQLP
         (COCARA  =  :DZ10-COCARA AND NUCOM >= :DZ10-NUCOM) ORDER BY  DOSQLP
         COCARA, NUCOM                                        DOSQLP
                 END-EXEC.                                    DOSQLP
     F0CDZ-FN.                                                DOSQLP
         EXIT.                                                DOSQLP
```

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PROCEDURE DIVISION   4

CONNECTION : F0101

The F0101 function contains the order of connexion to the Database.

```
*        ************************************          DOSQLP
*        *                                  *          DOSQLP
*        *  INITIALIZATIONS                 *          DOSQLP
*        *                                  *          DOSQLP
*        ************************************          DOSQLP
 F01.                                                  DOSQLP
     EXIT.                                             DOSQLP
 F0101.                                                DOSQLP
     EXEC SQL CONNECT :USERID IDENTIFIED BY :PASSWORD  DOSQLP
             END-EXEC                                  DOSQLP
 F0101-FN.                                             DOSQLP
     EXIT.                                             DOSQLP
 F0105.                                                DOSQLP
     EXIT.                                             DOSQLP
 F0105-FN.                                             DOSQLP
     EXIT.                                             DOSQLP
 F0110.                                                DOSQLP
     ACCEPT TIMCO FROM TIME.                           DOSQLP
     ACCEPT DATOR FROM DATE.                           DOSQLP
     MOVE ZERO TO CATX FT K50L.                        DOSQLP
     MOVE "1" TO ICF OCF SCR-ER.                       DOSQLP
     MOVE ZERO TO 7-CD01-XMSTA 7-CD02-XMSTA.           DOSQLP
     MOVE SPACE TO CATM OPER OPERD CAT-ER.             DOSQLP
     MOVE ZERO TO CONFIGURATIONS.                      DOSQLP
     MOVE SYMBOLIC-QUEUE TO 7-CD01-CTRAN.              DOSQLP
     IF      PROGR NOT  =  K-SSQLP-PROGR               DOSQLP
        MOVE ZERO TO ICF.                              DOSQLP
     IF      PRIOR-TPR  =  SPACE                       DOSQLP
        MOVE ZERO TO ICF K-SSQLP-DOC                   DOSQLP
        RECEIVE 7-CD01 MESSAGE INTO SQLP-MPRIOR NO DATA DOSQLP
             MOVE "1" TO IK.                           DOSQLP
     IF      PRIOR-TPR  =  SPACE                       DOSQLP
        PERFORM F81ES THRU F81ES-FN                    DOSQLP
        MOVE 7-CD01-XTERM TO K-SSQLP-XTERM.            DOSQLP
     MOVE LOW-VALUE TO O-SQLP.                         DOSQLP
     MOVE K-SSQLP-XTERM TO HE00-XTERM.                 DOSQLP
     IF      K-SSQLP-DOC  =  "2"                       DOSQLP
        OR  K-SSQLP-DOC  =  "3"                        DOSQLP
           MOVE "1" TO K-SSQLP-DOC                     DOSQLP
           GO TO F8Z05.                                DOSQLP
 F0110-FN.                                             DOSQLP
     EXIT.                                             DOSQLP
 F0160.                                                DOSQLP
     IF      ICF  =  ZERO                              DOSQLP
        MOVE "A" TO OPER                               DOSQLP
        GO TO F3999-ITER-FT.                           DOSQLP
 F0160-FN.                                             DOSQLP
     EXIT.                                             DOSQLP
 F01-FN.                                               DOSQLP
     EXIT.                                             DOSQLP
```

SCREEN GENERATED USING ORACLE V6 SQL   **8**
PROCEDURE DIVISION   **4**

PHYSICAL ACCESS TO SEGMENTS : F80

By default, all the 'SELECT' commands are generated with the ALL option.

The presence validation keys are shown with the commands:

       SELECT (in the INTO clause),
       UPDATE (in the SET clause),
       INSERT (in the VALUES clause).

```
*            ************************************           DOSQLP
*            *                                  *           DOSQLP
*            *  PHYSICAL SEGMENT ACCESS ROUTINES *          DOSQLP
*            *                                  *           DOSQLP
*            ************************************           DOSQLP
 F80.                                                       DOSQLP
    EXIT.                                                   DOSQLP
 F80-DZ05-R.                                                DOSQLP
    EXEC SQL SELECT ALL COCARA , NUCOD , FOURNI , NUCLIE ,  DOSQLP
    TO_CHAR(DATE,'DDMMYY') , RELEA , REFERENCECLIENT , RUE , DOSQLP
    COPOS , VILLE , CORESP , REMISE , MATERIEL , PRIX1 ,    DOSQLP
    TO_CHAR(HEURE,'DD/MM/YY') , PRECIS                      DOSQLP
            INTO :DZ05-COCARA:VDZ05COCARA,                  DOSQLP
    :DZ05-NUCOD:VDZ05NUCOD, :DZ05-FOURNI:VDZ05FOURNI,       DOSQLP
    :DZ05-NUCLIE:VDZ05NUCLIE, :DZ05-DATE:VDZ05DATE,         DOSQLP
    :DZ05-RELEA:VDZ05RELEA, :VDZ05-REFCLI:VDZ05REFCLI,      DOSQLP
    :VDZ05-RUE:VDZ05RUE, :DZ05-COPOS:VDZ05COPOS,            DOSQLP
    :VDZ05-VILLE:VDZ05VILLE, :VDZ05-CORESP:VDZ05CORESP,     DOSQLP
    :DZ05-REMISE:VDZ05REMISE, :VDZ05-MATE:VDZ05MATE,        DOSQLP
    :DZ05-PRIX1:VDZ05PRIX1, :DZ05-HEURE:VDZ05HEURE,         DOSQLP
    :DZ05-PRECIS:VDZ05PRECIS                                DOSQLP
            FROM DODZ05 WHERE COCARA  =  :DZ05-COCARA AND NUCODDOSQLP
    =  :DZ05-NUCOD AND FOURNI  =  :DZ05-FOURNI              DOSQLP
            END-EXEC.                                       DOSQLP
    GO TO F80-OK.                                           DOSQLP
 F80-DZ05-RU.                                               DOSQLP
    EXEC SQL SELECT ALL COCARA , NUCOD , FOURNI , NUCLIE ,  DOSQLP
    TO_CHAR(DATE,'DDMMYY') , RELEA , REFERENCECLIENT , RUE , DOSQLP
    COPOS , VILLE , CORESP , REMISE , MATERIEL , PRIX1 ,    DOSQLP
    TO_CHAR(HEURE,'DD/MM/YY') , PRECIS                      DOSQLP
            INTO :DZ05-COCARA:VDZ05COCARA,                  DOSQLP
    :DZ05-NUCOD:VDZ05NUCOD, :DZ05-FOURNI:VDZ05FOURNI,       DOSQLP
    :DZ05-NUCLIE:VDZ05NUCLIE, :DZ05-DATE:VDZ05DATE,         DOSQLP
    :DZ05-RELEA:VDZ05RELEA, :VDZ05-REFCLI:VDZ05REFCLI,      DOSQLP
    :VDZ05-RUE:VDZ05RUE, :DZ05-COPOS:VDZ05COPOS,            DOSQLP
    :VDZ05-VILLE:VDZ05VILLE, :VDZ05-CORESP:VDZ05CORESP,     DOSQLP
    :DZ05-REMISE:VDZ05REMISE, :VDZ05-MATE:VDZ05MATE,        DOSQLP
    :DZ05-PRIX1:VDZ05PRIX1, :DZ05-HEURE:VDZ05HEURE,         DOSQLP
    :DZ05-PRECIS:VDZ05PRECIS                                DOSQLP
            FROM DODZ05 WHERE COCARA  =  :DZ05-COCARA AND NUCODDOSQLP
    =  :DZ05-NUCOD AND FOURNI  =  :DZ05-FOURNI              DOSQLP
            END-EXEC.                                       DOSQLP
    GO TO F80-OK.                                           DOSQLP
 F80-DZ05-P.                                                DOSQLP
    EXEC SQL OPEN DISPLAY_DZ05                              DOSQLP
            END-EXEC.                                       DOSQLP
 F80-DZ05-RN.                                               DOSQLP
    EXEC SQL FETCH DISPLAY_DZ05                             DOSQLP
            INTO :DZ05-COCARA:VDZ05COCARA,                  DOSQLP
    :DZ05-NUCOD:VDZ05NUCOD, :DZ05-FOURNI:VDZ05FOURNI,       DOSQLP
    :DZ05-NUCLIE:VDZ05NUCLIE, :DZ05-DATE:VDZ05DATE,         DOSQLP
    :DZ05-RELEA:VDZ05RELEA, :VDZ05-REFCLI:VDZ05REFCLI,      DOSQLP
    :VDZ05-RUE:VDZ05RUE, :DZ05-COPOS:VDZ05COPOS,            DOSQLP
    :VDZ05-VILLE:VDZ05VILLE, :VDZ05-CORESP:VDZ05CORESP,     DOSQLP
    :DZ05-REMISE:VDZ05REMISE, :VDZ05-MATE:VDZ05MATE,        DOSQLP
    :DZ05-PRIX1:VDZ05PRIX1, :DZ05-HEURE:VDZ05HEURE,         DOSQLP
    :DZ05-PRECIS:VDZ05PRECIS                                DOSQLP
            END-EXEC.                                       DOSQLP
    GO TO F80-OK.                                           DOSQLP
 F80-DZ05-W.                                                DOSQLP
    EXEC SQL INSERT                                         DOSQLP
            INTO DODZ05 ( COCARA , NUCOD , FOURNI , NUCLIE , DOSQLP
    DATE , RELEA , REFERENCECLIENT , RUE , COPOS , VILLE , CORESPDOSQLP
    , REMISE , MATERIEL , PRIX1 , HEURE , PRECIS ) VALUES   DOSQLP
    (:DZ05-COCARA:VDZ05COCARA, :DZ05-NUCOD:VDZ05NUCOD,      DOSQLP
    :DZ05-FOURNI:VDZ05FOURNI, :DZ05-NUCLIE:VDZ05NUCLIE,     DOSQLP
    TO_DATE(:DZ05-DATE:VDZ05DATE,'DDMMYY'),                 DOSQLP
    :DZ05-RELEA:VDZ05RELEA, :VDZ05-REFCLI:VDZ05REFCLI,      DOSQLP
    :VDZ05-RUE:VDZ05RUE, :DZ05-COPOS:VDZ05COPOS,            DOSQLP
    :VDZ05-VILLE:VDZ05VILLE, :VDZ05-CORESP:VDZ05CORESP,     DOSQLP
    :DZ05-REMISE:VDZ05REMISE, :VDZ05-MATE:VDZ05MATE,        DOSQLP
    :DZ05-PRIX1:VDZ05PRIX1,                                 DOSQLP
    TO_DATE(:DZ05-HEURE:VDZ05HEURE,'DD/MM/YY'),             DOSQLP
    :DZ05-PRECIS:VDZ05PRECIS)                               DOSQLP
            END-EXEC.                                       DOSQLP
    GO TO F80-OK.                                           DOSQLP
 F80-DZ05-RW.                                               DOSQLP
```

```
        EXEC SQL                                               DOSQLP
              UPDATE DODZ05 SET NUCLIE  =                      DOSQLP
        :DZ05-NUCLIE:VDZ05NUCLIE, DATE   =                     DOSQLP
        TO_DATE(:DZ05-DATE:VDZ05DATE,'DDMMYY'), RELEA  =       DOSQLP
        :DZ05-RELEA:VDZ05RELEA, REFERENCECLIENT  =             DOSQLP
        :VDZ05-REFCLI:VDZ05REFCLI, RUE  =  :VDZ05-RUE:VDZ05RUE, COPOSDOSQLP
        =  :DZ05-COPOS:VDZ05COPOS, VILLE  =  :VDZ05-VILLE:VDZ05VILLE,DOSQLP
        CORESP  =  :VDZ05-CORESP:VDZ05CORESP, REMISE  =        DOSQLP
        :DZ05-REMISE:VDZ05REMISE, MATERIEL  =  :VDZ05-MATE:VDZ05MATE,DOSQLP
        PRIX1  =  :DZ05-PRIX1:VDZ05PRIX1, HEURE  =             DOSQLP
        TO_DATE(:DZ05-HEURE:VDZ05HEURE,'DD/MM/YY'), PRECIS  =  DOSQLP
        :DZ05-PRECIS:VDZ05PRECIS WHERE COCARA  =  :DZ05-COCARA AND   DOSQLP
        NUCOD  =  :DZ05-NUCOD AND FOURNI  =  :DZ05-FOURNI      DOSQLP
              END-EXEC.                                        DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F80-DZ05-UN.                                               DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F80-DZ05-CL.                                               DOSQLP
        EXEC SQL CLOSE DISPLAY_DZ05                            DOSQLP
              END-EXEC.                                        DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F8001-FN.                                                  DOSQLP
        EXIT.                                                  DOSQLP
    F80-DZ10-R.                                                DOSQLP
        EXEC SQL SELECT ALL COCARA , NUCOM , FOURNP , LIVRABLE ,   DOSQLP
        QUANTITE-COMMANDEE , INFOR                             DOSQLP
                  INTO :DZ10-COCARA:VDZ10COCARA,               DOSQLP
        :DZ10-NUCOM:VDZ10NUCOM, :DZ10-FOURNP:VDZ10FOURNP,      DOSQLP
        :DZ10-QTMLI:VDZ10QTMLI, :DZ10-QTMCO:VDZ10QTMCO,        DOSQLP
        :VDZ10-INFOR:VDZ10INFOR                                DOSQLP
                  FROM DODZ10 WHERE COCARA  =  :DZ10-COCARA AND NUCOMDOSQLP
        =  :DZ10-NUCOM                                         DOSQLP
              END-EXEC.                                        DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F80-DZ10-RU.                                               DOSQLP
        EXEC SQL SELECT ALL COCARA , NUCOM , FOURNP , LIVRABLE ,   DOSQLP
        QUANTITE-COMMANDEE , INFOR                             DOSQLP
                  INTO :DZ10-COCARA:VDZ10COCARA,               DOSQLP
        :DZ10-NUCOM:VDZ10NUCOM, :DZ10-FOURNP:VDZ10FOURNP,      DOSQLP
        :DZ10-QTMLI:VDZ10QTMLI, :DZ10-QTMCO:VDZ10QTMCO,        DOSQLP
        :VDZ10-INFOR:VDZ10INFOR                                DOSQLP
                  FROM DODZ10 WHERE COCARA  =  :DZ10-COCARA AND NUCOMDOSQLP
        =  :DZ10-NUCOM                                         DOSQLP
              END-EXEC.                                        DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F80-DZ10-P.                                                DOSQLP
        EXEC SQL OPEN DISPLAY_DZ10                             DOSQLP
              END-EXEC.                                        DOSQLP
    F80-DZ10-RN.                                               DOSQLP
        EXEC SQL FETCH DISPLAY_DZ10                            DOSQLP
                  INTO :DZ10-COCARA:VDZ10COCARA,               DOSQLP
        :DZ10-NUCOM:VDZ10NUCOM, :DZ10-FOURNP:VDZ10FOURNP,      DOSQLP
        :DZ10-QTMLI:VDZ10QTMLI, :DZ10-QTMCO:VDZ10QTMCO,        DOSQLP
        :VDZ10-INFOR:VDZ10INFOR                                DOSQLP
              END-EXEC.                                        DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F80-DZ10-W.                                                DOSQLP
        EXEC SQL INSERT                                        DOSQLP
                  INTO DODZ10 ( COCARA , NUCOM , FOURNP , LIVRABLE , DOSQLP
        QUANTITE-COMMANDEE , INFOR ) VALUES                    DOSQLP
        (:DZ10-COCARA:VDZ10COCARA, :DZ10-NUCOM:VDZ10NUCOM,     DOSQLP
        :DZ10-FOURNP:VDZ10FOURNP, :DZ10-QTMLI:VDZ10QTMLI,      DOSQLP
        :DZ10-QTMCO:VDZ10QTMCO, :DZ10-INFOR:VDZ10INFOR)        DOSQLP
              END-EXEC.                                        DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F80-DZ10-RW.                                               DOSQLP
        EXEC SQL                                               DOSQLP
              UPDATE DODZ10 SET FOURNP  =                      DOSQLP
        :DZ10-FOURNP:VDZ10FOURNP, LIVRABLE  =                  DOSQLP
        :DZ10-QTMLI:VDZ10QTMLI, QUANTITE-COMMANDEE  =          DOSQLP
        :DZ10-QTMCO:VDZ10QTMCO, INFOR  =  :VDZ10-INFOR:VDZ10INFOR   DOSQLP
        WHERE COCARA  =  :DZ10-COCARA AND NUCOM  =  :DZ10-NUCOM    DOSQLP
              END-EXEC.                                        DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F80-DZ10-UN.                                               DOSQLP
        GO TO F80-OK.                                          DOSQLP
    F80-DZ10-CL.                                               DOSQLP
```

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```
        EXEC SQL CLOSE DISPLAY_DZ10                          DOSQLP
                END-EXEC.                                    DOSQLP
        GO TO F80-OK.                                        DOSQLP
    F8002-FN.                                                DOSQLP
        EXIT.                                                DOSQLP
    F80-HELP-R.                                              DOSQLP
        READ HE-FILE INVALID KEY                             DOSQLP
             GO TO F80-KO.                                   DOSQLP
        GO TO F80-OK.                                        DOSQLP
    F80-HELP-W.                                              DOSQLP
        WRITE HE00 INVALID KEY                               DOSQLP
             GO TO F80-KO.                                   DOSQLP
        GO TO F80-OK.                                        DOSQLP
    F80-HELP-RW.                                             DOSQLP
        REWRITE HE00 INVALID KEY                             DOSQLP
             GO TO F80-KO.                                   DOSQLP
        GO TO F80-OK.                                        DOSQLP
    F80-HELP-D.                                              DOSQLP
        DELETE HE-FILE INVALID KEY                           DOSQLP
             GO TO F80-KO.                                   DOSQLP
        GO TO F80-OK.                                        DOSQLP
    F8095-FN.                                                DOSQLP
        EXIT.                                                DOSQLP
    F80-EM00-R.                                              DOSQLP
        READ EM-FILE INVALID KEY                             DOSQLP
             GO TO F80-KO.                                   DOSQLP
        GO TO F80-OK.                                        DOSQLP
    F8098-FN.                                                DOSQLP
        EXIT.                                                DOSQLP
    F80-OK.                                                  DOSQLP
        MOVE "0" TO IK                                       DOSQLP
        MOVE PROGR TO XPROGR                                 DOSQLP
        GO TO F80-FN.                                        DOSQLP
    F80-KO.                                                  DOSQLP
        MOVE "1" TO IK                                       DOSQLP
        MOVE PROGR TO XPROGR.                                DOSQLP
    F8099-FN.                                                DOSQLP
        EXIT.                                                DOSQLP
    F80-FN.                                                  DOSQLP
        EXIT.                                                DOSQLP
    F81.                                                     DOSQLP
        EXIT.                                                DOSQLP
    F81EQ.                                                   DOSQLP
        EXIT.                                                DOSQLP
    F81EQ-FN.                                                DOSQLP
        EXIT.                                                DOSQLP
    *     ***********************************                DOSQLP
    *     *                                 *                DOSQLP
    *     *   ABNORMAL END PROCEDURE        *                DOSQLP
    *     *                                 *                DOSQLP
    *     ***********************************                DOSQLP
    F81ER.                                                   DOSQLP
        CALL "ABORT".                                        DOSQLP
    F81ER-FN.                                                DOSQLP
        EXIT.                                                DOSQLP
    F81ES.                                                   DOSQLP
        IF    7-CD01-XMSTA NOT  =  ZERO                      DOSQLP
           OR 7-CD02-XMSTA NOT  =  ZERO                      DOSQLP
              CALL "ABORT".                                  DOSQLP
    F81ES-FN.                                                DOSQLP
        EXIT.                                                DOSQLP
    F81SE.                                                   DOSQLP
        MOVE CMES-IND1 TO 7-CD02-XLOMES                      DOSQLP
        SEND 7-CD02 FROM CMES-YR00 WITH EGI AFTER ADVANCING 0 LINES  DOSQLP
           PERFORM F81ES THRU F81ES-FN.                      DOSQLP
    F81SE-FN.                                                DOSQLP
        EXIT.                                                DOSQLP
    *     ***********************************                DOSQLP
    *     *                                 *                DOSQLP
    *     *   MEMORIZATION OF USER'S ERRORS *                DOSQLP
    *     *                                 *                DOSQLP
    *     ***********************************                DOSQLP
    F81UT.                                                   DOSQLP
        IF    K50L  <  K50M                                  DOSQLP
           ADD 1 TO K50L                                     DOSQLP
           MOVE XEMKY TO T-XEMKY (K50L).                     DOSQLP
        MOVE "E" TO CAT-ER.                                  DOSQLP
```

SCREEN GENERATED USING ORACLE V6 SQL   **8**
PROCEDURE DIVISION   **4**

```
     F81UT-FN.                                              DOSQLP
         EXIT.                                              DOSQLP
     F8145.                                                 DOSQLP
         EXIT.                                              DOSQLP
     F8145-FN.                                              DOSQLP
         EXIT.                                              DOSQLP
     F8155.                                                 DOSQLP
         EXIT.                                              DOSQLP
     F8155-FN.                                              DOSQLP
         EXIT.                                              DOSQLP
     F81-FN.                                                DOSQLP
         EXIT.                                              DOSQLP
```

9. CHART OF VARIABLES AND CONSTANTS

```
+-------------------------------------------------------------+
!          CHART OF ON-LINE CONSTANTS AND VARIABLES          !
+-------------------------------------------------------------+
!        !                                                   !
! CURPOS ! CURSOR POSITIONING IN RECEPTION SCREEN WHERE      !
!        ! CPOSL = LINE NUMBER & CPOSC = COLUMN NUMBER       !
!        ! (except for DPS7 FORMS).                          !
!        !                                                   !
! CPOSN  ! "ABSOLUTE" CURSOR POSITIONING WHERE CPOSL = 1     !
!        ! AND CPOSC = 1                                     !
!        ! (except for DPS7 FORMS).                          !
!        !                                                   !
! INA    ! NUMBER OF DATA ELEMENTS IN SCREEN-TOP CATEGORY    !
!        !                                                   !
! INR    ! INA + NUMBER OF DATA ELEMENTS IN REPETITIVE       !
!        ! CATEGORY                                          !
!        !                                                   !
! INZ    ! INR + NUMBER OF DATA ELEMENTS IN SCREEN-BOTTOM    !
!        ! CATEGORY                                          !
!        !                                                   !
! IRR    ! NUMBER OF REPETITIONS IN REPETITIVE CATEGORY      !
!        !                                                   !
! INT    ! NUMBER OF INPUT FIELDS IN SCREEN                  !
!        !                                                   !
! IER    ! NUMBER OF SCREEN-RELATED ERROR MESSAGES           !
!        !                                                   !
! SESSI  ! SESSION NUMBER OF GENERATED PROGRAM               !
!        !                                                   !
! LIBRA  ! LIBRARY CODE                                      !
!        !                                                   !
! USERCO ! USER CODE                                         !
!        !                                                   !
! DATGN  ! DATE OF GENERATED PROGRAM                         !
!        !                                                   !
! TIMGN  ! TIME OF GENERATED PROGRAM                         !
!        !                                                   !
! PROGR  ! PROGRAM CODE                                      !
!        !                                                   !
! PROGE  ! PROGRAM EXTERNAL NAME                             !
!        !                                                   !
! PRDOC  ! HELP PROGRAM EXTERNAL NAME                        !
!        !                                                   !
+-------------------------------------------------------------+
```

```
+----------------------------------------------------------+
!     CHART OF ON-LINE CONSTANTS AND VARIABLES  (CONT'D)   !
+----------------------------------------------------------+
!          !                                               !
! DATOR    ! YEAR-MONTH-DAY FORMATTED MACHINE DATE         !
!          !                                               !
! DATSEP   ! SEPARATOR USED IN DATES                       !
!          ! DEFAULT VALUE: '/'                            !
!          !                                               !
! DAT6     ! DATE FORMATTING: DDMMYY OR YYMMDD             !
! DAT7     ! ALSO OUTPUT FORMATS (DD/MM/YY FOR INSTANCE) IF !
! DAT8     ! A VARIABLE DATA ELEMENT (V) HAS A DATE FORMAT  !
!          !                                               !
! DATCTY   ! FIELD FOR CENTURY LOAD                        !
!          !                                               !
! DAT6C    ! NON-FORMATTED DATE WITH CENTURY               !
! DAT7C    !                                               !
!          !                                               !
! DAT8C    ! FORMATTED DATE WITH CENTURY: MM/DD/CCYY       !
!          !                                               !
! DAT8G    ! GREGORIAN FORMATTED DATE: CCYY/MM/DD          !
!          !                                               !
! TIMCO    ! TIME                                          !
!          !                                               !
! TIMDAY   ! FORMATTED TIME: HH:MM:SS                      !
!          !                                               !
! 5-scrn-  ! THIS FIELD CONTAINS THE NAME OF THE           !
! PROGE    ! PROGRAM TO BRANCH TO                          !
!          !                                               !
+----------------------------------------------------------+
```

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```
+---------------------------------------------------------+
!       CHART OF VALIDATION VARIABLES AND INDICATORS      !
+---------------------------------------------------------+
!        !                                                !
! ICF    ! CONFIGURATION VARIABLE                         !
!        ! '1' = SCREEN IN INPUT                           !
!        ! '0' = NO SCREEN IN INPUT                        !
!        !                                                !
! OCF    ! CONFIGURATION VARIABLE                          !
!        ! '1' = SCREEN IN OUTPUT                          !
!        ! '0' = NO SCREEN IN OUTPUT                       !
!        !                                                !
! OPER   ! OPERATION CODE                                  !
!        ! 'A' = INQUIRY                                   !
!        ! 'M' = UPDATE                                    !
!        ! 'S' = SCREEN CONTINUATION                       !
!        ! 'E' = CONVERSATION END                          !
!        ! 'P' = PREVIOUS DISPLAY                          !
!        ! 'O' = TRANSFER TO ANOTHER SCREEN                !
!        !                                                !
! OPERD  ! OPERATION CODE FOR DEFERRED BRANCHING           !
!        ! 'O' = DEFERRED CALL OF ANOTHER SCREEN           !
!        ! INITIALIZED IN F0520 AND MOVED INTO OPER IN F40 !
!        !                                                !
! CATX   ! CATEGORY BEING PROCESSED                        !
!        ! '0' = BEGINNING OF RECEPTION OR DISPLAY         !
!        ! ' ' = SCREEN TOP                                !
!        ! 'R' = REPETITIVE CATEGORY                       !
!        ! 'Z' = SCREEN BOTTOM                             !
!        !                                                !
! CATM   ! TRANSACTION CODE                                !
!        ! 'C' = CREATION                                  !
!        ! 'M' = MODIFICATION                              !
!        ! 'A' = DELETION                                  !
!        ! 'X' = IMPLICIT UPDATE                           !
!        !                                                !
! ICATR  ! INDICATOR OF CATEGORY BEING PROCESSED           !
!        ! (REPETITIVE CATEGORY ONLY)                      !
!        !                                                !
! FT     ! END OF REPETITIVE CATEGORY INDICATOR            !
!        ! '0' LINES TO DISPLAY                            !
!        ! '1' NO MORE LINES TO DISPLAY                    !
!        !                                                !
!ddss-CF ! SEGMENT CONFIGURATION INDICATOR (seg. ddss)     !
!        ! '1' THE SEGMENT IS PROCESSED                    !
!        ! '0' THE SEGMENT IS NOT PROCESSED                !
!        !                                                !
+---------------------------------------------------------+
```

```
+----------------------------------------------------------+
!     CHART OF VALIDATION VARIABLES AND INDICATORS (CONT'D) !
+----------------------------------------------------------+
! IK     ! PHYSICAL FILE ACCESS ERROR INDICATOR            !
!        ! '0' NO ERROR                                    !
!        ! '1' ERROR                                       !
!        !                                                 !
+----------------------------------------------------------+


+----------------------------------------------------------+
!                    ERROR VARIABLES                       !
+----------------------------------------------------------+
!        !                                                 !
! SCR-ER ! STORAGE OF SCREEN ERROR                         !
!        ! '1' NO ERROR                                    !
!        ! '4' ERROR                                       !
!        !                                                 !
! CAT-ER ! STORAGE OF ERROR ON CURRENT CATEGORY            !
!        ! ' ' NO ERROR                                    !
!        ! 'E' ERROR                                       !
!        !                                                 !
!ER-scrn-! MEMORIZATION OF DATA ELEMENT ERROR              !
! delcod ! '0' DATA ELEMENT ABSENT                         !
!        ! '1' DATA ELEMENT PRESENT                        !
!        ! '2' INVALID ABSENCE                             !
!        ! '4' INVALID CLASS                               !
!        ! '5' INVALID VALUE                               !
!        !                                                 !
+----------------------------------------------------------+
```