

OBJETIVO

- Repasar paso a paso los principales COMANDOS de código COBOL CICS a efectos que el estudiante pueda encarar su primer desafío de código COBOL pseudo-conversacional.

ESPECIFICACIONES

Dentro del entorno TSO se construirá el código COBOL CICS correspondiente; de la misma manera que el código COBOL BATCH.

La diferencia será:

- 1) el programa **COMPILADOR** que se estará utilizando. Lo podrá ver en el siguiente componente:
 - a) KC02788.ALU9999.FUENTE(**COMPMAPA**) Para compilar el mapa asociado
 - b) KC02788.ALU9999.FUENTE(**COMPCICS**) Para compilar el código fuente
- 2) **NEWCOPY** dentro del entorno CICS para tomar el último objeto generado con la compilación EXITOSA.

¿Cómo arrancar el código fuente?

Dado que los archivos están predefinidos en tabla propia de CICS: **FCT** (**F**ile **C**ontrol **T**able).

El código se comenzará a escribir a partir de la WORKING STORAGE SECTION:

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File Options Keypad
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT KC02788.CURSOS.FUENTE(PGMCON99) - 01.00 Columns 00001 00072
Command ==> Scroll ==> CSR_
***** Top of Data *****
000001 IDENTIFICATION DIVISION.
000002 PROGRAM-ID. PGMCON99.
000003 DATA DIVISION.
000004 FILE SECTION.
000005 WORKING-STORAGE SECTION.
000006
000007 01 CT-CONSTANTES.
000008 03 CT-MSGO.
000009 05 CT-MNS-01 PIC X(72) VALUE
000010 'INGRESE LOS DATOS Y PRESIONE ENTER'.
000011 05 CT-MNS-02 PIC X(72) VALUE
000012 'DATOS INGRESADOS INCORRECTOS - REINGRESE'.
000013 05 CT-MNS-03 PIC X(72) VALUE
000014 'TIPO Y NÚMERO DOCUMENTO INEXISTENTES - REINGRESE'.
000015 05 CT-MNS-04 PIC X(72) VALUE
000016 'TIPO DE DOCUMENTO INVALIDO'.
000017 05 CT-MNS-05 PIC X(72) VALUE
000018 'NUMERO DE DOCUMENTO INVALIDO'.
000019 05 CT-MNS-06 PIC X(72) VALUE 'CLIENTE ENCONTRADO'.
000020 05 CT-MNS-08 PIC X(72) VALUE
000021 'PROBLEMA CON ARCHIVO PERSONA'.
000022 05 CT-MNS-09 PIC X(72) VALUE 'TECLA INVALIDA'.
000023 05 CT-MNS-EXIT PIC X(72) VALUE
000024 'FIN TRANSACCION T199'.
000025 03 CT-DATASET PIC X(08) VALUE 'CLIENTE'.
000026 03 CT-DATASET-LEN PIC S9(04) COMP VALUE 50.
000027
000028 01 WS-VARIABLES.
000029 03 WS-MAP-00 PIC X(07) VALUE 'MAP0099'.
000030 03 WS-MAPSET-00 PIC X(07) VALUE 'MAP0099'.
000031 03 WS-MAP-01 PIC X(07) VALUE 'MAP0199'.
000032 03 WS-MAPSET-01 PIC X(07) VALUE 'MAP0199'.
000033 03 WS-LONG PIC S9(04) COMP.
000034 03 WS-ABSTIME PIC S9(16) COMP VALUE +0.
000035 03 WS-FECHA PIC X(10) VALUE SPACES.
F1=Help F2=Split F3=Exit F4=Expand F5=Rfind F6=Rchange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

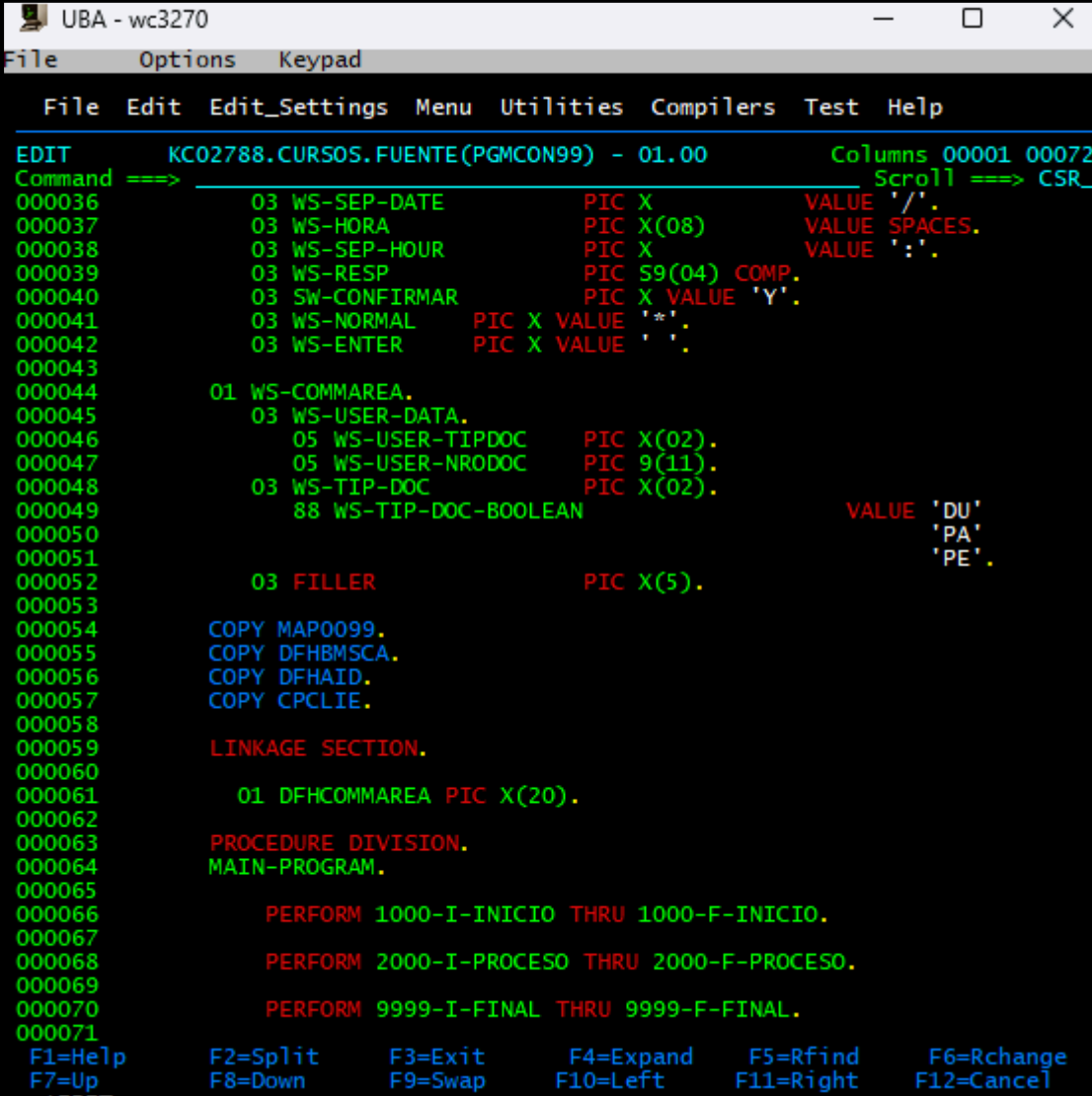
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Dentro de la WORKING STORAGE SECTION; también se estarán definiendo:

- 1) **Nombre del mapa** que se utilizará dentro de la funcionalidad: **MAPXXXX**
- 2) Área de comunicación entre el mapa y la transacción: **DFHBMSCA**
- 3) Área de control de teclas de función: **DFHAID**
- 4) Copy de estructura de archivo que se está utilizando

También se estará definiendo la LINKAGE SECTION; dentro de la DATA DIVISION. Para permitir la navegabilidad.

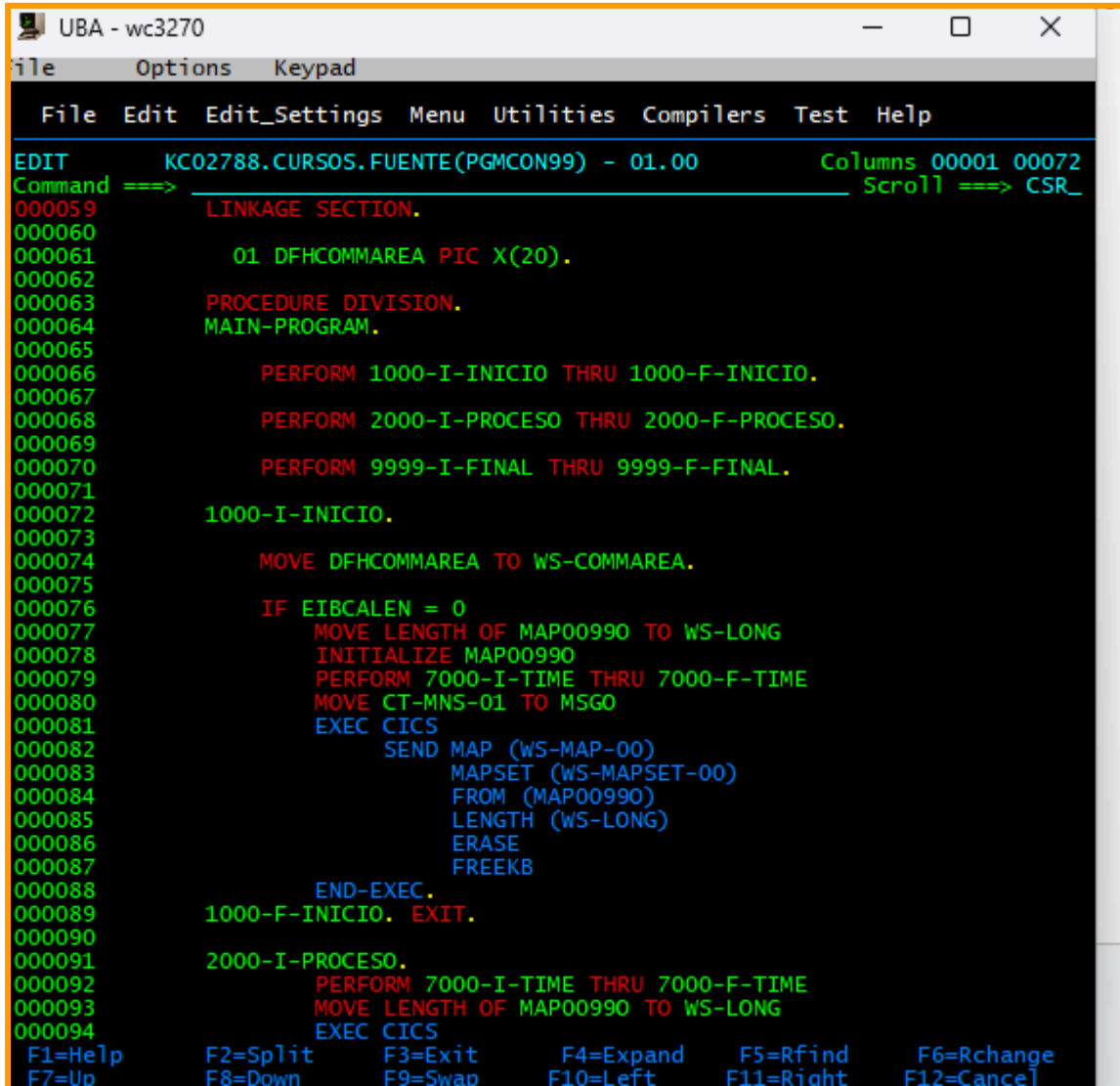
El tamaño de la **DFHCOMMAREA** dependerá de la cantidad de bytes que viajen a la siguiente transacción.



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Command ==> Scroll ==> CSR_
000036      03 WS-SEP-DATE          PIC X          VALUE '/'.
000037      03 WS-HORA              PIC X(08)       VALUE SPACES.
000038      03 WS-SEP-HOUR           PIC X          VALUE ':'.
000039      03 WS-RESP               PIC S9(04) COMP.
000040      03 SW-CONFIRMAR          PIC X VALUE 'Y'.
000041      03 WS-NORMAL            PIC X VALUE '*'.
000042      03 WS-ENTER              PIC X VALUE ' '.
000043
000044      01 WS-COMMAREA.
000045      03 WS-USER-DATA.
000046          05 WS-USER-TIPDOC     PIC X(02).
000047          05 WS-USER-NRODOC     PIC 9(11).
000048      03 WS-TIP-DOC            PIC X(02).
000049          88 WS-TIP-DOC-BOOLEAN VALUE 'DU'
000050                                  VALUE 'PA'
000051                                  VALUE 'PE'.
000052      03 FILLER                 PIC X(5).
000053
000054      COPY MAP0099.
000055      COPY DFHBMSCA.
000056      COPY DFHAID.
000057      COPY CPCLIE.
000058
000059      LINKAGE SECTION.
000060
000061      01 DFHCOMMAREA PIC X(20).
000062
000063      PROCEDURE DIVISION.
000064      MAIN-PROGRAM.
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000066          PERFORM 1000-I-INICIO THRU 1000-F-INICIO.
000067
000068          PERFORM 2000-I-PROCESO THRU 2000-F-PROCESO.
000069
000070          PERFORM 9999-I-FINAL THRU 9999-F-FINAL.
000071
F1=Help    F2=Split  F3=Exit   F4=Expand  F5=Rfind   F6=Rchange
F7=Up      F8=Down   F9=Swap   F10=Left  F11=Right  F12=Cancel
  
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Como se observa en la figura anterior, la estructura principal del programa continúa siendo idéntica a la expresada en un programa COBOL BATCH.



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000060      01 DFHCOMMAREA PIC X(20).
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000062      PROCEDURE DIVISION.
000063      MAIN-PROGRAM.
000064
000065          PERFORM 1000-I-INICIO THRU 1000-F-INICIO.
000066
000067          PERFORM 2000-I-PROCESO THRU 2000-F-PROCESO.
000068
000069          PERFORM 9999-I-FINAL THRU 9999-F-FINAL.
000070
000071      1000-I-INICIO.
000072
000073          MOVE DFHCOMMAREA TO WS-COMMAREA.
000074
000075          IF EIBCALEN = 0
000076              MOVE LENGTH OF MAP00990 TO WS-LONG
000077              INITIALIZE MAP00990
000078              PERFORM 7000-I-TIME THRU 7000-F-TIME
000079              MOVE CT-MNS-01 TO MSGO
000080              EXEC CICS
000081                  SEND MAP (WS-MAP-00)
000082                      MAPSET (WS-MAPSET-00)
000083                      FROM (MAP00990)
000084                      LENGTH (WS-LONG)
000085                      ERASE
000086                      FREEKB
000087              END-EXEC.
000088      1000-F-INICIO. EXIT.
000089
000090      2000-I-PROCESO.
000091
000092          PERFORM 7000-I-TIME THRU 7000-F-TIME
000093          MOVE LENGTH OF MAP00990 TO WS-LONG
000094          EXEC CICS
000095              SEND MAP (WS-MAP-00)
000096                  MAPSET (WS-MAPSET-00)
000097                  FROM (MAP00990)
000098                  LENGTH (WS-LONG)
000099                  ERASE
000100                  FREEKB
000101          END-EXEC.
000102
000103      9999-I-FINAL.
000104
000105      9999-F-FINAL. EXIT.
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000995      END-PROGRAM.
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000997      END-EXEC.
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000999      END-SECTION.
001000
001001      END-FILE.
001002
001003      END-PROGRAM.
001004
001005      END-EXEC.
001006
001007      END-SECTION.
001008
001009      END-FILE.
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001011      END-PROGRAM.
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001013      END-EXEC.
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001015      END-SECTION.
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001019      END-PROGRAM.
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001107      END-PROGRAM.
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001109      END-EXEC.
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001197      END-EXEC.
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001199      END-SECTION.
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001297      END-FILE.
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001299      END-PROGRAM.
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001301      END-EXEC.
001302
001303      END-SECTION.
001304
001305      END-FILE.
001306
001307      END-PROGRAM.
001308
001309      END-EXEC.
00
```

```

UBA - wc3270
File Options Keypad
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT KC02788.CURSOS.FUENTE(PGMCON99) - 01.00 Columns 00001 0007
Command ==> 1000-I-INICIO. Scroll ==> CSF
000072
000073
000074 MOVE DFHCOMMAREA TO WS-COMMAREA.
000075
000076 IF EIBCALEN = 0
000077     MOVE LENGTH OF MAP00990 TO WS-LONG
000078     INITIALIZE MAP00990
000079     PERFORM 7000-I-TIME THRU 7000-F-TIME
000080     MOVE CT-MNS-01 TO MSGO
000081     EXEC CICS
000082         SEND MAP (WS-MAP-00)
000083             MAPSET (WS-MAPSET-00)
000084             FROM (MAP00990)
000085             LENGTH (WS-LONG)
000086             ERASE
000087             FREEKB
000088     END-EXEC.
000089 1000-F-INICIO. EXIT.
000090
000091 2000-I-PROCESO.
000092     PERFORM 7000-I-TIME THRU 7000-F-TIME
000093     MOVE LENGTH OF MAP00990 TO WS-LONG
000094     EXEC CICS
000095         RECEIVE MAP (WS-MAP-00)
000096             MAPSET (WS-MAPSET-00)
000097             INTO (MAP0099I)
000098             RESP (WS-RESP)
000099     END-EXEC
000100     PERFORM 2500-I-PULSAR-TECLA THRU 2500-F-PULSAR-TECLA.
000101
000102 2000-F-PROCESO. EXIT.
000103
000104
000105
000106 2500-I-PULSAR-TECLA.
000107     EVALUATE EIBAID
F1=Help F2=Split F3=Exit F4=Expand F5=Rfind F6=Rchange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

```

En la figura anterior se observa el párrafo 2000-I-PROCESO.

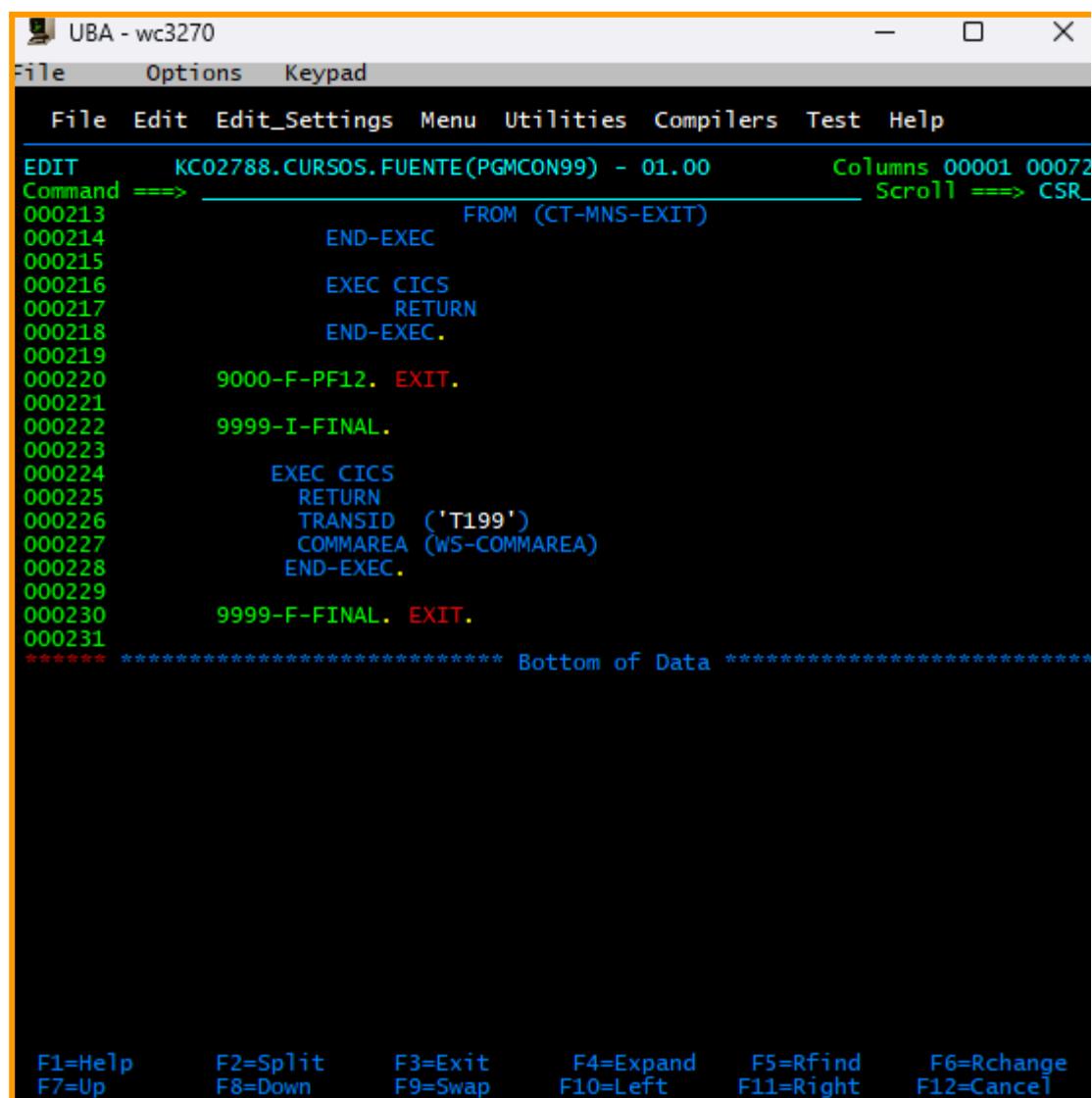
Donde se recibe el MAPA con la sentencia RECEIVE MAP y se convoca al párrafo que analizará las funcionalidades según la tecla de función utilizada por el usuario.

```

UBA - wc3270
File Options Keypad
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT KC02788.CURSOS.FUENTE(PGMCON99) - 01.00 Columns 00001 00072
Command ==> Scroll ==> CSR_
000105
000106 2500-I-PULSAR-TECLA.
000107 EVALUATE EIBAID
000108
000109 WHEN DFHENTER
000110 PERFORM 3000-I-ENTER THRU 3000-F-ENTER
000111
000112 WHEN DFHPF3
000113 PERFORM 3500-I-PF3 THRU 3500-F-PF3
000114
000115 WHEN DFHPF12
000116 PERFORM 9000-I-PF12 THRU 9000-F-PF12
000117 WHEN OTHER
000118 MOVE CT-MNS-09 TO MSGO
000119 PERFORM 7000-I-TIME THRU 7000-F-TIME
000120 EXEC CICS
000121 SEND MAP (WS-MAP-00)
000122 MAPSET (WS-MAPSET-00)
000123 FROM (MAP00990)
000124 LENGTH (WS-LONG)
000125 ERASE
000126 END-EXEC
000127 END-EVALUATE.
000128
000129 2500-F-PULSAR-TECLA. EXIT.
000130
000131 3000-I-ENTER.
000132 MOVE TIPDOC1 TO WS-TIP-DOC.
000133 IF NOT WS-TIP-DOC-BOOLEAN
000134 INITIALIZE MAP00990
000135 MOVE CT-MNS-04 TO MSGO
000136 ELSE
000137 IF NUMDOC1 NOT NUMERIC
000138 INITIALIZE MAP00990
000139 MOVE CT-MNS-05 TO MSGO
000140 ELSE
F1=Help F2=Split F3=Exit F4=Expand F5=Rfind F6=Rchange
F7=Up F8=Down F9=Swap F10=Left F11=Right F12=Cancel

```

Luego de construida la funcionalidad; el párrafo final es:



```

UBA - wc3270
File Options Keypad
File Edit Edit_Settings Menu Utilities Compilers Test Help
EDIT      KC02788.CURSOS.FUENTE(PGMCON99) - 01.00      Columns 00001 00072
Command ==>                                     Scroll ==> CSR_
000213                                FROM (CT-MNS-EXIT)
000214                                END-EXEC
000215
000216                                EXEC CICS
000217                                RETURN
000218                                END-EXEC.
000219
000220      9000-F-PF12. EXIT.
000221
000222      9999-I-FINAL.
000223
000224                                EXEC CICS
000225                                RETURN
000226                                TRANSID ('T199')
000227                                COMMAREA (WS-COMMAREA)
000228                                END-EXEC.
000229
000230      9999-F-FINAL. EXIT.
000231
***** Bottom of Data *****
F1=Help      F2=Split    F3=Exit     F4=Expand   F5=Rfind    F6=Rchange
F7=Up        F8=Down     F9=Swap     F10=Left    F11=Right   F12=Cancel
  
```

pasándole el control al CICS mediante:

```

EXEC CICS
  RETURN
END-EXEC.
  
```

O, como en la figura anterior; retornando a la transacción que la invocó inicialmente conjuntamente con la **COMMAREA** correspondiente y volver a comenzar el ciclo:

```

EXEC CICS
  RETURN TRANSID(T199)
  COMMAREA(WS-COMMAREA)
END-EXEC.
  
```