

12) Panels

- Panels: ISPF

Resources:

ISPF Dialog Developer's Guide

ISPF Dialog Tag Language Guide and Reference

TSO/E REXX Reference

<http://www.rexxla.org/>

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PANEL example

----- Customer accounts -----

SELECTION ==>

Please select from the following :

- 1 Display customer details
- 2 Delete customer
- 3 Add customer
- 4 Modify customer accounts

Selection : 1

Customer displayed

Panel

```
) BODY
%----- Customer accounts -----
%SELECTION ==>_ZCMD
+
+   Please select from the following :
+
+   %1+ Display customer details
+   %2+ Delete customer
+   %3+ Add customer
+   %4+ Modify customer accounts
+
+           Selection : _choice
+
+
+
+ %&msg1
+ %&msg2
+
+
) INIT
  .CURSOR = choice
) PROC
  VER (&choice,LIST,1,2,3,4)
  VER (&choice,NB)
) END
```

Body Section

Initialisation Section

Execution section

Panel

Here is the ISPF panel. This is stored in the ISPPPLIB dataset.

)BODY - Identifies the displayable section.

% - indicates highlighted protected field

+ - protected field

_name - input field with variable

& - variable protected.

)INIT - section to indicate set-up details.

.CURSOR - set cursor location on panel start-up

)PROC - Executable section

VER - Verification options

LIST - Check a list

NB - Check value is None blank

)END - End of panel.

Code

```
CALL initialise

DO FOREVER
  CALL display_panel
  msg1 = ""
  return_code = RC
  IF return_code = 8 THEN DO
    EXIT
  END
  ELSE DO
    CALL options

  END
END
EXIT

initialise:
  ADDRESS ISPEXEC "LIBDEF ISPPLIB DATASET ID('crone90.rx201.ispplib')"
  RETURN

display_panel:
  ADDRESS ISPEXEC "DISPLAY PANEL(demo1)"
  RETURN
```

Code

```
ADDRESS ISPEXEC "LIBDEF ISPPLIB DATASET  
ID('crone90.rx201.isplib')"
```

Address the ISPEXEC environment to define the library. (The display will work without this but will not display the latest version.)

```
ADDRESS ISPEXEC "DISPLAY PANEL(demo1)"  
DISPLAY PANEL will display the member called demo1
```

Control will be returned when ever enter is pressed the DO FOREVER keeps the panel on the screen until PF3 is pressed and sends a return code of 8 to the program.

Code - continued

```
options:
  IF msg1 <> "" THEN DO
    RETURN
  END
  SELECT
    WHEN choice = 1 THEN DO
      CALL discust
      msg1 = RESULT
    END
    WHEN choice = 2 THEN DO
      CALL delcust
      msg1 = RESULT
    END
    WHEN choice = 3 THEN DO
      CALL addcust
      msg1 = RESULT
    END
    WHEN choice = 4 THEN DO
      CALL modcust
      msg1 = RESULT
    END
    OTHERWISE DO
      msg1 = "You must enter one of the options listed."
    END
  END
END
RETURN
```

Code

Calling external subroutines.

The returned value is stored in a system variable called RESULT.

The REXX program and the panel share the same variable pool and therefore variable assigned to the panel can be set in the program e.g.

```
msg1 = RESULT
```

Work section 12.1

- Write a REXX program to display a selection panel.
- The panel should do nothing more than display the selection in a message section.

```
-----          Customer accounts          -----  
SELECTION ===>  
  
Please select from the following :  
  
1  Option 1  
2  Option 2  
3  Option 3  
4  Option 4  
5  Option 5  
  
                Selection :  5  
  
You chose 5
```

Work section 12.2

- Write a REXX program to display a name collection panel.
- When PF3 is pressed leave the panel and display the list of names.

```
----- Name Collection Panel -----  
SELECTION ==>  
  
Please Enter a list of names :  
  
Names : JANE  
  
JANE stored.
```

```
JANE  
***
```

Additional Program

- Write a REXX program to add new customers to a dataset.
- Before writing the data to the dataset ask if the user is OK to save the data..
- The data should be customer name and postcode.

```
-----          New Customer Entry Screen          -----  
SELECTION ===>  
  
Please enter a customer name and postcode press enter for  
next customer.  
<PF3> to save the new customers.  
  
Customer Name : harrods  
Postcode      : W1  
  
HEINZ ASD213 accepted.
```

Additional Program (continued)

```
Do you want to save the data (YES/NO) ?  
yes  
Data stored successfully.  
***
```

```
***** ***** Top of Data *****  
000001 HEINZ ASD213  
000002 HARRODS W1  
***** ***** Bottom of Data *****
```

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PANEL example

```
----- Customer accounts -----  
SELECTION ==>  
  
Please select from the following :  
  
1 Display customer details  
2 Delete customer  
3 Add customer  
4 Modify customer accounts  
  
Selection : 1  
  
Customer displayed
```

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How does it look on screen...

You can create panels using ISPF language. The REXX has access to the ISPF environment.

Panel

```
)BODY
%----- Customer accounts -----
%SELECTION ==>_ZCMD
+
+   Please select from the following :           Body Section
+
+   %1+ Display customer details
+   %2+ Delete customer
+   %3+ Add customer
+   %4+ Modify customer accounts
+
+           Selection : _choice
+
+
+
+ %&msg1
+ %&msg2
+
+
)INIT
  .CURSOR = choice           Initialisation Section
)PROC
  VER (&choice,LIST,1,2,3,4)
  VER (&choice,NB)           Execution section
)END
```

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Go to the ISPF/PDF PRIMARY OPTION MENU, select 0 ISPF PARMS and in “Identifier” switch 2. Panel identifier on.

See the description on the following slide.

Panel

Here is the ISPF panel. This is stored in the ISPPLIB dataset.

)BODY - Identifies the displayable section.

% - indicates highlighted protected field

+ - protected field

_name - input field with variable

& - variable protected.

)INIT - section to indicate set-up details.

.CURSOR - set cursor location on panel start-up

)PROC - Executable section

VER - Verification options

LIST - Check a list

NB - Check value is None blank

)END - End of panel.

Code

```
CALL initialise

DO FOREVER
  CALL display_panel
  msg1 = ""
  return_code = RC
  IF return_code = 8 THEN DO
    EXIT
  END
  ELSE DO
    CALL options
  END
END
EXIT

initialise:
  ADDRESS ISPEXEC "LIBDEF ISPPLIB DATASET ID('crone90.rx201.ispplib')"
  RETURN

display_panel:
  ADDRESS ISPEXEC "DISPLAY PANEL(demo1)"
  RETURN
```

See the description on the following slide.

Code

```
ADDRESS ISPEXEC "LIBDEF ISPLIB DATASET  
ID('crone90.rx201.isplib")
```

Address the ISPEXEC environment to define the library. (The display will work without this but will not display the latest version.)

```
ADDRESS ISPEXEC "DISPLAY PANEL(demo1)"  
DISPLAY PANEL will display the member called demo1
```

Control will be returned when ever enter is pressed the DO FOREVER keeps the panel on the screen until PF3 is pressed and sends a return code of 8 to the program.

See 'MCOE.REXA.REXX(RX201124)' and
'MCOE.REXA.PANEL(RX20141)'

Code - continued

```
options:
  IF msg1 <> "" THEN DO
    RETURN
  END
  SELECT
    WHEN choice = 1 THEN DO
      CALL discust
      msg1 = RESULT
    END
    WHEN choice = 2 THEN DO
      CALL delcust
      msg1 = RESULT
    END
    WHEN choice = 3 THEN DO
      CALL addcust
      msg1 = RESULT
    END
    WHEN choice = 4 THEN DO
      CALL modcust
      msg1 = RESULT
    END
    OTHERWISE DO
      msg1 = "You must enter one of the options listed."
    END
  END
  RETURN
```

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See the description on the following slide.

Code

Calling external subroutines.

The returned value is stored in a system variable called **RESULT**.

The REXX program and the panel share the same variable pool and therefore variable assigned to the panel can be set in the program e.g.

```
msg1 = RESULT
```

Work section 12.1

- Write a REXX program to display a selection panel.
- The panel should do nothing more than display the selection in a message section.

```
----- Customer accounts -----  
SELECTION ==>  
  
Please select from the following :  
  
1 Option 1  
2 Option 2  
3 Option 3  
4 Option 4  
5 Option 5  
  
Selection : 5  
  
You chose 5
```

See slide 12-6.

Work section 12.2

- Write a REXX program to display a name collection panel.
- When PF3 is pressed leave the panel and display the list of names.

```
-----      Name Collection Panel      -----  
SELECTION ==>  
  
Please Enter a list of names :  
  
Names : JANE  
  
JANE stored.
```

```
JANE  
***
```

Additional Program

- Write a REXX program to add new customers to a dataset.
- Before writing the data to the dataset ask if the user is OK to save the data..
- The data should be customer name and postcode.

```
-----      New Customer Entry Screen      -----  
SELECTION ==>  
  
Please enter a customer name and postcode press enter for  
next customer.  
<PF3> to save the new customers.  
  
Customer Name : harrods  
Postcode      : W1  
  
HEINZ ASD213 accepted.
```

Additional Program (continued)

```
Do you want to save the data (YES/NO) ?  
yes  
Data stored successfully.  
***
```

```
***** ***** Top of Data *****  
000001 HEINZ ASD213  
000002 HARRODS W1  
***** ***** Bottom of Data *****
```