Document Version 1.0 Authors: Peter Jacob (pej), Mike Großmann( mig)

The following document is a brief description of the new Formatted Screen (FSS) feature. It allows to set up simple screen definitions within a BREXX script.

For detail take a closer look at the FSS samples in the delivered Installation library BREXX.INSTALL.SAMPLES

### 1 Delivered Samples

The relevant FSS samples are prefixed with the #-sign:

#TSOAPPL	Shows in a detailed usage of all FSS functions how to set up a menu and "paint" a TK4 like design
#BROWSE	A pre-packed FSS application to display data in a List Buffer instead using SAYs
#FSS1COL	A pre-packed FSS application to generate input requests (in one columns)
#FSS2COL	A pre-packed FSS application to generate input requests (distributes in two columns)
#FSS3COL	A pre-packed FSS application to generate input requests (distributes in three columns)
#FSS4COL	A pre-packed FSS application to generate input requests (distributes in four columns)
#FSS4CLX	A pre-packed FSS application to generate input requests (distributes in four columns)
	With additional setting options, including all call-back to test user's input

#### 2 FSS Limitation

FSS supports screen buffers up to 4096 bytes. If your screen size exceeds it, FSS take advantage of the maximum of 4096 bytes and reduces the buffer size to it. The buffer size is calculated by the maximum number of columns multiplied by the maximum number of lines of your terminal emulation.

If you have an 80\*24 screen size the buffer size is 1920 bytes. For 160\*62, the size is 9920 bytes which exceed the maximum size of 4096. Which means the maximum columns and/or the maximum lines are reduced to display the defined FSS Screen. This reduction does not impact other applications which take advantage of the full size of your screen.

FSS supports just one FSS Screen definition at a time. If you need to display more than one FSS Screen in your REXX application, you must close the first and set up and display the next FSS definition. Using this method you can easily switch between different FSS Screens. It is a good idea to separate the FSS definitions in different sub-procedures, this allows their display by calling it.

#### 3 FSS Function Overview

To use FSS functions in BREXX you must import the FSS API library from BREXX.RXLIB, address and initialize :

```
/* IMPORT THE API LIBRARY */
CALL IMPORT FSSAPI
```

```
/* ADDRESS THE FSS SUBSYSTEM */
ADDRESS FSS
/* SWITCH TO FULL SCREEN MODE */
CALL FSSINIT
```

#### 3.1 FSSINIT Inits the FSS subsystem

Initialise the FSS environment. This must be performed prior to any other FSS call.

#### CALL FSSINIT

#### 3.2 FSSTEXT Display a text field

#### CALL FSSTEXT 'text' ,row,column,[text-length],attributes

text: text to be displayed in the screenrow: row where text should be placedcolumn: column where text should be placed.

**text-length:** length occupied by the text. This is an optional parameter, it defaults to the

text length.

attributes: screen attributes, like colours, protected, high-lighted etc. For details refer to

the attributes section

#### 3.3 FSSFIELD Display an input field and associate it with a BREXX Variable

#### CALL FSSFIELD 'field',row,column,[length],attributes[,init-value]

field: field-name of an input area to be displayed on the screen

**row:** row where text should be placed

**column:** column where the input area should be placed

**length:** the length occupied by the text. This is an optional parameter, it defaults to the

text length.

attributes: screen attributes, like colours, protected, high-lighted etc. For details refer to

the attributes section

**init-value** what should be displayed as content of the input field. It defaults to blank.

#### 3.3.1 Important Notice on the Column Position

Each text or field definition starts with the defined attribute byte, which itself is invisible but tells how the text or field appears on the screen. Therefore the real text or field-definition start at column+1.

#### 3.3.2 Important Notice on Screen Definitions

Be aware all definitions provided by FSSTEXT and FSSFIELD are stacked internally. They do not create a formatted screen on the fly.

This will be achieved by calling CALL FSSDISPLAY (documented separately in this document)

#### 3.3.3 Attribute Definition

The attribute definitions trigger the behaviour or colours of the Formatted Screen text or input elements.

**#PROT** Definition is protected (default for fsstext)

**#NUM** input field must be numeric

**#HI** text will be displayed high-lighted

**#NON** text/field-input is invisible

**#BLINK** text/field blinks

#REVERSE back ground is set with defined colour text appears white

**#USCORE** Underscore field

#BLUE text or input field is of blue colour

#RED text or input field is of red colour

#PINK text or input field is of pink colour

#GREEN text or input field is of green colour

#TURQ text or input field is of turquoise colour

#YELLOW text or input field is of yellow colour

#WHITE text or input field is of white colour

You can combine several attribute bytes by adding them.

e.g. #PROT+#BLUE

combining several colours is not allowed and may lead to unexpected errors

#### 3.4 FSSTITLE Displays a centred Title in Screen line 1

CALL FSSTITLE 'title-text[,attributes]

#### 3.5 FSSOPTION Create OPTION Line

Creates an OPTION line, typically used in a menu to select a menu option.

OPTION ===>

#### CALL FSSOPTION [row[,option-length[,attribute1,[attribute2]]]

row defaults to 2

option-length defines the line length to proved the option input, default is length

of the remaining line

attribute1 Attribute of "OPTION", default is #PROT+#WHITE

attribute2 Attribute of the option line, default is #HI+#RED+#USCORE

#### 3.6 FSSCOMMAND Create a Command Line

Creates a COMMAND, typically used to allow entering commands.

COMMAND ===>

CALL FSSCOMMAND [row[,option-length[,attribute1,[attribute2]]]

row defaults to 2

option-length defines the line length to provide the command input, default is length

of the remaining line

attribute1 Attribute of "COMMAND", default is #PROT+#WHITE

attribute2 Attribute of the command line, default is #HI+#RED+#USCORE

#### 3.7 FSSMESSAGE Create a Message Line

Creates a message line to display messages. The message line occupies a full-screen line.

#### CALL FSSMSG [row[,attribute]]

row defaults to 2

attribute attribute of message line, default is #PROT+#HI+#RED

#### 3.8 FSSZERRSM Set Error/Warning/Info Short Message

The message will be set in Field ZERRMS. ZERRMS will be automatically created by using an FSSTITLE definition, otherwise, it must be defined explicitly. If implicitly used with the FSSTITLE definitions, it starts on the right-hand side after the end of the message, its length is dependant on the length of the title.

#### CALL FSSZERRSM 'message'

#### 3.9 FSSFSET Set Field Content

#### CALL FSSFSET 'field', content

Make sure the field-name is enclosed in quotes, otherwise there is a chance of unwanted substitution by its value!

#### 3.10 FSSFGET Get current Field Content

#### Value=FSSFGET('field')

Make sure the field-name is enclosed in quotes, otherwise there is a chance of unwanted substitution by its value!

#### 3.11 FSSFGETALL Get Contents of all Fields

#### Number=FSSFGETALL()

All field contents of the screen are fetched and stored in the associated BREXX fields (defined by FSSFIELD(...)

#### 3.12 FSSCURSOR Set Cursor to a Field

CALL FSSCURSOR 'field'

### 3.13 FSSCOLOUR Change Colour of a Field

```
CALL FSSCOLOUR 'field', colour-attribute alternatively
CALL FSSCOLOR 'field', colour-attribute
```

### 3.14 FSSKEY Return Key entered

When the user presses an action-key on a screen the key value can be accessed by FSSKEY

key=FSSKEY()

By FSS supported keys:

REXX Variable	numeric Value
#ENTER	125
#PFK01	241
#PFK02	242
#PFK03	243
#PFK04	244
#PFK05	245
#PFK06	246
#PFK07	247
#PFK08	248
#PFK09	249
#PFK10	122
#PFK11	123
#PFK12	124
#PFK13	193
#PFK14	194
#PFK15	195
#PFK16	196
#PFK17	197
#PFK18	198
#PFK19	199
#PFK20	200
#PFK21	201
#PFK22	74
#PFK23	75
#PFK24	76
#CLEAR	109
#RESHOW	110

### 3.15 FSSDISPLAY Display/Refresh a generated Formatted Screen

Displays or Re-Displays the active screen

```
CALL FSSDISPLAY or CALL FSSREFRESH
```

#### 3.16 Get Screen Dimensions

WIDTH=FSSWidth()
returns number of available columns defined by Emulation

HEIGHT=FSSHeight()
returns number of available rows defined by Emulation

#### 3.17 Defining a Menu Screen

To ease the creation of menu screens you can use the FSSMENU definition. It creates the screen layout as well as the dialogue handling part.

CALL FSSMENU 'option','short-description','long-description','action'

**option** option code which leads to perform the associated action

short-descriptionshort description of action to performlong-descriptionlong description of action to perform

action action will be performed is associated option is seleted

the action must be prefixed by TSO for a TSO function call

or with CALL if a REXX procedure should be called.

The FSS menu definitions can be included within a normal FSS Screen definition to add additional fields or text parts to the formatted screen. These parts can be dynamically updated if you specify a call-back procedure in the FSSMENU Display call.

Example defined in a REXX script:

To display the menu and handle the selected actions FSSMENU must be called with the \$DISPLAY parameter:

returnkey=FSSMENU('\$DISPLAY'<, call-back-procedure)</pre>

returnkey key which was pressed to end the dialogue handling,

243 is PF3, 244 is PF4,195 is PF15, 196 is PF16

**\$DISPLAY** Display the menu defined before

**Call-back-procedure** optional own callback procedure (internal or external) to update FSS variables

or other variables

Example:

```
rckey=FSSMENU('$DISPLAY','UPDATE')
```

say 'End Key 'rckey

#### 3.18 Close FSS Environment

Once the Screen Handling is finished it is recommended to terminate the FSS environment

**CALL FSSTERM** or

**CALL FSSTERMINATE** or

**CALL FSSCLOSE** 

### 4 Creating a Dialog Manager

To handle User's action-keys you can set up a simple Dialog Manager as shown in this example:

```
/* -----
* Display Screen in primitive Dialog Manager and handle User's Input
do forever
                     /* Display Screen */
   fsreturn=fssDisplay()
   if fsreturn='PFK03' then leave /* QUIT requested */
   if fsreturn='PFK04' then leave /* CANCEL requested */
   if fsreturn='PFK15' then leave /* QUIT requested */
   if fsreturn='PFK16' then leave /* CANCEL requested */
   if fsreturn<>'ENTER' then iterate
   call fSSgetD()
                            /* Read Input Data */
 /* Add input checking if needed */
 call fssclose
                            /* Terminate Screen Environment */
```

### 5 Simple Screen Definitions

There is a simple way to create formatted screens using preformatted rexx scripts. This allows an easy screen setup without coding all the screen definitions manually.

#### 5.1 Screen with Attributes in one Column

The above definition will create and display this screen:

```
1. First Name ===>
2. Family Name ===>
3. UserId ===>
4. Department ===>
```

After entering input and pressing enter you receive the provided input

```
1. First Name ===> Fred
1. Family Name ===> Flintstone
2. UserId ===> FL2311
3. Department ===> Quarry
```

The provided input is stored in SCREEN.INPUT.xx an can be used or printed as in this REXX script:

#### 5.2 Screen with Attributes in two Columns

By changing the column numbers to 2:

you will get the attributes in two columns

```
1. First Name ===> _____ 2. Family Name ===> _____ 3. UserId ===> ____ 4. Department ===> _____
```

Entered input will be provided in the same way as in the one column screen example.

#### 5.3 Screen with Attributes in three Columns

Just change the number of columns to 3

```
frc=FMTCOLUM(3,'Three Columned Formatted Screen',
...
```

#### 5.4 Screen with Attributes in four Columns

Last option is to place the attributes in four columns:

```
frc=FMTCOLUM(4, 'Four Columned Formatted Screen',
...
```

#### 5.5 Screen special Attributes

You can tailor the appearance of column formatted screens, by setting **\_screen.xxxx** variables:

#### 5.5.1 Presetting Screen input fields

Use **\_SCREEN.INIT.n**='input-value-as-default', n is the reference to the field in the FMTCOLUMN definition. 1 is first, 2 second, etc.

#### Example:

```
_SCREEN.INIT.1='FRED'
_SCREEN.INIT.3='Flintstone'
_SCREEN.INIT.4='FL2311'
_SCREEN.INIT.5='Quarry'
```

#### Calling the formatted Screen, you will get a pre-set Screen:

```
1. First Name ===> Fred
1. Family Name ===> Flintstone
2. UserId ===> FL2311
3. Department ===> Quarry
```

#### 5.5.2 Input field appearance

If it is not changed the input fields will appear with an underscore in the available length. You can change it by setting \_screen.preset. If you set \_screen.preset='+' (one character) the input field will be filled by the character you defined. If you use more than one character \_screen.preset='\_ ' only the given string is displayed.

#### 5.5.3 Input field length

The field length is by default delimited by the next field definition in the row, or by the end of the line.

If you want to limit it to a certain length by:

#### \_SCREEN.LENGTH.n=field-length

n is the field number you want to set. It is sufficient to set just the field length you want to limit.

#### 5.5.4 Input Field CallBack Function

Normally, if you press enter, the screen control is giving back to your rexx and the variable content is returned. If you prefer to check the entered input while your formatted screen is still active, for example to validate user's input, you can define a call-back function:

#### \_screen.CallBack='internal-subprocedure'

The internal sub-procedure must be coded without a PROCEDURE statement, else you cannot use the screen input variables

```
* Call Back Routine from FMTCOLUMN to check provided Input

* //
checkInput:
if _screen.input.1 = '' then do
    call FSSzerrsm 'Field 1 ist mandatory'
    call FSSzerrlm 'Please enter valid content in Field 1'
    return 1
end
if _screen.input.2 = '' then do
    call FSSzerrsm 'Field 2 ist mandatory'
    call FSSzerrlm 'Please enter valid content in Field 2'
    return 1
end
...
```

In case of error your call back function can use the **FSSzerrsm** function, which displays a short message in the formatted screen's title line and/or the **FSSzerrlm** function to display a long message. The error message is displayed in the last line of Formatted Screen.

Your call-back sub-procedure signals with its return code how to proceed:

return 0: everything ok, leave screen an pass control back to calling rexx any other return code then 0:

return 1: something is wrong, short and error message (if set) are displayed

#### 5.6 Formatted List Output

The normal output of a REXX script will be displayed by the usage of SAY statements. The disadvantage you can not scroll in it. Alternatively you can write it in a sequential file and view it after the script has ended.

By using the FMTLIST command and passing a result buffer in a stem variable you can browse in the output while your REXX script is still running.

Example REXX reads entire RXDATE Member and displays it:

```
/* REXX */
ADDRESS TSO
 "ALLOC FILE(INDD) DSN('BREXX.RXLIB(RXDATE)')"
 "EXECIO * DISKR INDD (STEM Buffer."
 "FREE FILE(INDD)"
 call fmtlist
 return
```

Creates the following list buffer:

```
ROWS 00001/00191 COL 001 B01
****
     00001
00002
          RXDATE Transforms Dates in various types
00003
                                          Created by PeterJ on 21. November 2018
          RXDATE(<output-format>, <date>, <input-format>)
00004
00005
          date is formatted as defined in input-format
00006
            it defaults to today's date
          Input Format represents the input date format
  it defaults to 'EUROPEAN'
00007
00008
                        is days since 01.01.0001
00009
             Base
00010
             JDN
                        is days since 24. November 4714 BC
00011
             Julian
                        is yyyyddd
                                       e.g. 2018257
                        is dd/mm/yyyy e.g. 11/11/2018 is dd.mm.yyyy e.g. 20.09.2018
00012
             European
                        is dd.mm.yyyy e.g.
00013
             German
                        is mm/dd/yyyy e.g. 12.31.2018
00014
             STANDARD
00015
                        is yyyymmdd
                                       e.g. 20181219
00016
             ORDERED
                        is yyyy/mm/dd e.g. 2018/12/19
          Output Format represents the output date format it defaults to 'EUROPEAN'
00017
00018
                        is days since 01.01.0001
00019
             Base
00020
                        is days since 24. November 4714 BC
00021
                        is yyyyddd
             Julian
00022
             Days
                        is ddd days in this year e.g.
00023
             Weekday
                        is weekday of day e.g. Monday
                        is dddd days in this century
00024
             Century
00025
             European
                        is dd/mm/yyyy e.g. 11/11/2018
00026
             German
                        is mm/dd/yyyy e.g.
00027
             USA
             SHEurope
00028
                        is dd/mm/yy
                                            11/11/18
00029
             SHGerman
                        is dd.mm.yy
                                       e.g.
                                            20.09.18
00030
             SHUSA
                        is mm/dd/yy
                                       e.g.
                                            12.31.18
```

Using the PF7 and PF8 you scroll upward and forward, PF10 and PF11 scroll left and right.

M in the CMD line and PF7 moves buffer to the top, M and PF8 to the bottom.

A number and PF7 or PF8 moves the buffer the specified lines up or down.

#### 5.6.1 FMTLIST Prerequisites

FMTLIST displays always the content of the stem variable BUFFER. The buffer must have the usual structure:

**BUFFER.0** contains the number of entries in BUFFER

**BUFFER.1** contains first line

**BUFFER.2** second line

•••

**BUFFER.n** last line

As the name is fixed, it does not need to be passed to FMTLIST.

#### 5.6.2 FMTLIST calling Syntax

### FMTLIST [length-line-area][,line-area-character][,header-1[,header-2]]

length-line-area length of displayed line-area, default is 5

line-area-character character which should be displayed in the line area, default is none, then

the line area contains the line number

header-1 this is an optional header line which is shown as first-line the displayed buffer.

header-2 optional second header, only if header-1 is also defined

Example of FMTLIST with 2 header lines:

```
00001/00036 COL
                                       Sex Birth Date Study
.... First Name
                       Surname
00001 Arianna
                      Abel
                                           24/11/1999 Electrical Engineering
26/10/1992 Physics
00002 Ollie
00003 Louis
                                                                                  Hendon
00004 Cody
                      Adair
                                                                                  Ayr
                                           27/01/1992 Economics
00005 Arlene
                      Agnew
                                                                                  Hove
00006 Ava
                                           05/06/1995 Economics
                      Ahmad
                                                                                  Port
00007 Mark
                                           28/06/1993 Computer Science
                      Ahmed
                                                                                  Gatesh
00008 Keiran
                      Ainsworth
                                           07/04/1996 Electrical Engineering Sunder
00009 Carly
                                           09/06/1999 Mechanical Engineering Wick
                      Aird
00010 Nathan
                                           30/03/1995 Computer Science
                                                                                  Bright
00011
                       Akhtar
00012
                       Allardyce
00013 Douglas
00013 Bodgtds
00014 Alisha
00015 Morgan
00016 Ben
00017 Gabriel
                                           07/06/1992 Electrical Engineering Newbur
                                           05/05/1993 Philosophy
24/01/1998 Mathematics
                      Amos
                                                                                  Craiga
                                                                                  Plymou
                      Anderson
                      Anderson
                                           17/12/1998 Mathematics
                                                                                  Chelms
00018 Maisie
                                           28/10/1997 Computer Science
                      Anderson
                                                                                  Manche
00019 Tommy
                                           31/10/1994 Mechanical Engineering Gatesh
                      Anderson
00020 Lois
                                           16/06/1992
                      Andrew
                                                       Electrical Engineering Sunder
00021 Calvin
                                           08/05/1993 Economics
                                                                                  Wolver
00022
00023 Aimee
                      Armour
                                           13/04/2002 Electrical Engineering
                                                                                  Scarbo
00024 Justin
                                           10/08/1998 Electrical Engineering
                                           01/09/1993 Computer Science
00025 Logan
                                                                                  Barnsl
                                           04/11/1994 Economics
11/11/2001 Mathematics
00026 Arya
                      Armstrong
                                                                                  Lochgi
00027 Charlie
                                                                                  Liverp
                      Arnold
00028
                                           24/04/1993 Philosophy
                                                                                  Barri
                      Arnold
00029 Kerry
                      Arshad
                                           07/07/2002 Physics
                                                                                  Newtow
```

If you use PF7/PF8 to scroll up and down, the two header lines are always displayed as the buffer top lines.

### 5.6.3 FMTLIST calling other REXX scripts from the command line

If you want to play another REXX script from within the FMTLIST buffer you can do so, by entering:

#### RX or REXX rexx-script-name

in the command command line

The buffer is saved internally and the specified REXX is called. The called REXX may itself use the FMTLIST method to output the result, or a simple sequence of say statements.

Once you leave the newly displayed buffer by PF3 you return to the FMTLIST buffer which was active.

#### Example:

CMD ==>	rx LISTALC				ROWS 00001/00036 COL (	001 B01
F	irst Name	Surname	Sex	Birth Date	Study	City
00001 A	rianna	Abel	f	22/10/2001	Mechanical Engineering	Sheffi
00002 0		Abernethy	m		Electrical Engineering	Carlis
00003 L	ouis	Abraham	m	26/10/1992	Physics	Hendon
00004 C		Adair	m		Mechanical Engineering	Ayr
00005 A	rlene	Agnew	f	27/01/1992	Economics	Hove
00006 A		Ahmad	f	05/06/1995	Economics	Port T
00007 M	ark	Ahmed	m	28/06/1993	Computer Science	Gatesh
00008 K		Ainsworth	m		Electrical Engineering	
00009 C	arly	Aird	f	09/06/1999	Mechanical Engineering	Wick
00010 N	athan	Aitken	m	30/03/1995	Computer Science	Bright
00011 L	yle	Akhtar	m	08/03/1992		Leices
00012 I	sla	Allardyce	f	08/04/1994	Electrical Engineering	Stockt
00013 D	ouglas	Allen	m	20/11/1993	Mathematics	Wandsw
00014 A	lisha	Amos	f		Electrical Engineering	Newbur
00015 M	organ	Amos	m	05/05/1993	Philosophy	Craiga
00016 B	en	Anderson	m	24/01/1998	Mathematics	Plymou
00017 G	abriel	Anderson	m	17/12/1998	Mathematics	Chelms
00018 M	aisie	Anderson	f	28/10/1997	Computer Science	Manche
00019 T	ommy	Anderson	m	31/10/1994	Mechanical Engineering	Gatesh
00020 L	ois	Andrew	f	16/06/1992	Electrical Engineering	Sunder
00021 C	alvin	Arbuckle	m	08/05/1993	Economics	Wolver
00022 T	aylor	Armit	m	21/09/1995	Mathematics	Bedfor
00023 A	imee	Armour	f	13/04/2002	Electrical Engineering	Scarbo
00024 J	ustin	Armour	m		Electrical Engineering	
00025 L	ogan	Armour	m	01/09/1993	Computer Science	Barnsl
00026 A		Armstrong	f	04/11/1994		Lochgi
00027 C		Arnold	f	11/11/2001	Mathematics	Liverp
00028 L	eo	Arnold	m	24/04/1993	Philosophy	Barri
00029 K	erry	Arshad	f	07/07/2002		Newtow

The created FMTLIST buffer, in this case the output of the LISTALC command is created and displayed

```
ROWS 00001/00034 COL 001 B02
00001 SYS00003 SYS1.UCAT.TS0
                 PEJ.EXEC
00002 SYSUEXEC
                 SYS1.UCAT.MVS
SYS2.EXEC
00003 SYS00014
00004 SYSEXEC
                 SYS2.ISP.CLIB
ISP.V2R1M0.CLIB
SYS2.ISP.LLIB
00005 ISPCLIB
00006
00007 ISPLLIB
                 ISP. V2R1M0.LLIB
80000
                 SYS2.ISP.MLIB
ISP.V2R1M0.MLIB
00009 ISPMLIB
00010
                 SYS2.ISP.PLIB
ISP.V2R1M0.PLIB
00011 ISPPLIB
00012
00013
00014 ISPSLIB
                 SYS2.REVIEW.PLIB
                 SYS2.ISP.SLIB
ISP.V2R1M0.SLIB
00015
                 SYS2.ISP.TLIB
00016 ISPTLIB
                 ISP. V2R1M0.TLIB
00017
                 SYS2.ISP.TLIB
ISP.V2R1M0.TLIB
00018 ISPTABL
00019
                 *terminal
00020 ISPTRACE
00021 SYSIN
00022 SYSPRINT
                 *terminal
00023 RXLIB
                 BREXX.RXLIB
                 SYS1.HELP
SYS2.HELP
00024 SYSHELP
00025
00026 SYSPROC
                 PEJ.CMDPROC
00027
                 SYS1.CMDPROC
00028
                 SYS2.CMDPROC
                 PEJ.ISP.PROF
00029 ISPPROF
00030 REVPROF
                 PEJ. ISP. PROF
```

Pressing the PF3 key returns to the previous displayed buffer.

### 6 FSS Functions as Host Commands

Alternatively to the FSS functions described in "FSS Function Overview" you can use the FSS Host command API directly. In this case all definitions, calculations, validations, etc. must be handled by your REXX script directly.

#### 6.1 INIT FSS Environment

Initialise the FSS environment. This must be performed prior to any other FSS call.

```
ADDRESS FSS
```

#### 6.2 Defining a Text Entry

#### ADDRESS FSS

'TEXT 'row column attributes text'

text: text to be displayed on the screenrow: row where text should be placedcolumn: column where text should be placed.

attributes: screen attributes, like colours, protected, high-lighted etc. For details refer to

the attributes section

#### 6.3 Defining a Field Entry

#### ADDRESS FSS

'FIELD 'row column attributes field flen [preset]'

text: text to be displayed on the screenrow: row where text should be placedcolumn: column where text should be placed.

attributes: screen attributes, like colours, protected, high-lighted etc. For details refer to

the attributes section

**field:** Screen field name

flen: length of input area representing field name

preset: content initially displayed (optional), defaults to blank

#### 6.4 Getting Field Content

#### ADDRESS FSS

'GET FIELD field rexx-variable'

**field:** Screen field name

rexx-variable: variable receiving the field content

#### 6.5 Setting Field Content

#### ADDRESS FSS

'SET FIELD field value'

or 'SET FIELD field 'rexx-variable

**field:** Screen field name value new field content

rexx-variable: variable containing the field content

#### 6.6 Setting Cursor to a field

Sets the cursor to the beginning of the Screen Field

ADDRESS FSS

'SET CURSOR field'

**field:** Screen field name

#### 6.7 Setting Colour

Sets the Colour of a Screen Field

ADDRESS FSS

'SET COLOR field/text colour'

**field:** Screen field name

colour: Color definition, for details refer to the attributes section

#### 6.8 Getting action Key

When the user presses an action-key on a screen the key value can be fetched in a rexx-variable

ADDRESS FSS

'GET AID rexx-variable'

rexx-variable: variable receiving the action key

#### 6.9 Display or Refresh Formatted Screen

Used to display the Formatted Screen the first time, or to refresh an active screen

ADDRESS FSS

'REFRESH'

### 6.10 End or Terminates FSS Environment

Ends the Formatted Screen environment.

ADDRESS FSS

'TERM'

#### 6.11 Get Terminal Width

ADDRESS FSS

'GET WIDTH rexx-variable'

rexx-variable: variable receiving the action key

6.12 Get Terminal Height

ADDRESS FSS

'GET HEIGHT rexx-variable'

rexx-variable: variable receiving the action key

### **Table of Contents**

L	Deliv	Delivered Samples1			
2	FSS L	imitation	1		
3	FSS F	unction Overview	1		
	3.1	FSSINIT Inits the FSS subsystem			
	3.2	FSSTEXT Display a text field			
	3.3 3.3.1 3.3.2 3.3.3	FSSFIELD Display an input field and associate it with a BREXX Variable	2 2		
	3.4	FSSTITLE Displays a centred Title in Screen line 1	3		
	3.5	FSSOPTION Create OPTION Line	3		
	3.6	FSSCOMMAND Create a Command Line	3		
	3.7	FSSMESSAGE Create a Message Line	4		
	3.8	FSSZERRSM Set Error/Warning/Info Short Message	4		
	3.9	FSSFSET Set Field Content	4		
	3.10	FSSFGET Get current Field Content	4		
	3.11	FSSFGETALL Get Contents of all Fields	4		
	3.12	FSSCURSOR Set Cursor to a Field	4		
	3.13	FSSCOLOUR Change Colour of a Field	5		
	3.14	FSSKEY Return Key entered	5		
	3.15	FSSDISPLAY Display/Refresh a generated Formatted Screen	5		
	3.16	Get Screen Dimensions	6		
	3.17	Defining a Menu Screen	6		
	3.18	Close FSS Environment	7		
ı	Crea	ting a Dialog Manager	8		
	Simn	le Screen Definitions	q		
•	5.1	Screen with Attributes in one Column			
	5.2	Screen with Attributes in two Columns			
	5.3	Screen with Attributes in three Columns			
	5.4	Screen with Attributes in four Columns			
	5.5	Screen special Attributes			
	5.5 5.5.1	•			
	5.5.2	·			
	5.5.3	• • • • • • • • • • • • • • • • • • • •			

	5.5.4	Input Field CallBack Function	11
	5.6	Formatted List Output	13
	5.6.1	FMTLIST Prerequisites	14
	5.6.2	FMTLIST calling Syntax	14
	5.6.3	FMTLIST calling other REXX scripts from the command line	15
6	FSS I	unctions as Host Commands	17
	6.1	INIT FSS Environment	17
	6.2	Defining a Text Entry	17
	6.3	Defining a Field Entry	17
	6.4	Getting Field Content	17
	6.5	Setting Field Content	17
	6.6	Setting Cursor to a field	18
	6.7	Setting Colour	18
	6.8	Getting action Key	18
	6.9	Display or Refresh Formatted Screen	18
	6.10	End or Terminates FSS Environment	18
	6.11	Get Terminal Width	18
	6 1 2	Cat Tarminal Haight	10