

# **Embedding Assets into REXX Code**

**Frank Clarke  
2013**

# What?

- Panels and skeletons (among other things) are permanently welded to the source code
- ...so that all\* the elements are in one place

(\* some limitations apply)

# Why?

- HUGE savings in I/O
- Ease of maintenance
- Simpler distribute/install

# How?

The embedded elements are 'hidden' in a REXX comment at the back of the source:

```
/*      Embedded elements follow the source as a comment:  
))> PLIB  DISPL01      identifies this as a panel named 'DISPL01'  
)ATTR  
  
...  
))> SLIB  LOADJOB      identifies this as a skeleton named 'LOADJOB'  
//&uid.A JOB (&zacctnum.) , 'DEFAULT JOBCARDS' ,  
  
...  
*/
```

# Extracting the Element – pt 1

## Transfer the data to the queue

```
do while sourceline(currln) <> "/*"  
  
    text = sourceline(currln)           /* save with a short name */  
  
    if Left(text,3) = "))))" then do  /* package the queue */  
        . . .  
        end                         /* package the queue */  
  
    else push text                   /* onto the top of the stack */  
  
    currln = currln - 1             /* previous line */  
  
end                                /* while
```

# Extracting the Element – pt 2

## If this is a new DDName...

```
if Left(text,3) = ")))" then do /* package the queue */  
parse var text ")))" ddn mbr . /* PLIB PANL001 maybe */  
if Pos(ddn,ddnlist) = 0 then do /* doesn't exist */  
  
ddnlist = ddnlist ddn /* keep track */  
$ddn = ddn || Random(999)  
$ddn.ddn = $ddn /* PLIB247, maybe */  
  
address TSO "ALLOC FI(\"$ddn\")" fb80po.0  
  
"LMINIT DATAID(DAID) DDNAME(\"$ddn\")"  
daid.ddn = daid  
  
end  
.  
.  
end
```

# Extracting the Element – pt 3

## Create a new member

```
daid = daid.ddn

"LMOPEN DATAID ("daid") OPTION(OUTPUT)"

do queued()

parse pull line
"LMPUT DATAID("daid") MODE(INVAR) DATALOC(LINE) DATALEN(80)"

end

"LMMADD DATAID ("daid") MEMBER("mbr")"

"LMCLOSE DATAID ("daid")"
```

# Make the Libraries Active

```
dd = ""

do Words(ddnlist)          /* each LIBDEF DD      */

    parse value ddnlist dd  with  dd ddnlist
    $ddn   = $ddn.dd          /* PLIB322 <- PLIB      */
    "LIBDEF  ISP"dd "LIBRARY  ID("$ddn") STACK"

end

ddnlist = ddnlist dd
```

# Other Examples

Many of the routines on my code examples web page:  
([home.roadrunner.com/~mvsrexx/REXX/](http://home.roadrunner.com/~mvsrexx/REXX/)) make use of  
this technique. Any of them displaying this warning:

```
|*****-*****-*****-*****-*****-*****-*****-*****-*****-*****-*****-*****-*****|  
|  
|           WARNING: EMBEDDED COMPONENTS.  
|           See text following TOOLKIT_INIT  
|  
|*****-*****-*****-*****-*****-*****-*****-*****-*****-*****-*****-*****-*****|
```

use DEIMBED.