User Experience
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- Setting up REXX in CICS TS
  - The "CICS Transaction Server REXX Guide" (SC34-5764-00)
    - Everything you ever wanted to know...
  - Chapter 2 "Writing and running a REXX Program"
    - The place to start

- "What you need to run a REXX Program"
  - The laundry list is documented Chapter 2.1

Create the RFS Filepools Update CICS startup JCL

Install Resource Definitions Format the RFS Filepools

Update LSRPOOL Definitions Create the Help Files

Rename supplied Procedures Verify the Installation

Update CICSTART.PROC Config the DB2 Interfade

(See Appendix K, "Post-Installation Configuration")

- What they don't tell in VSE/ESA 2.6...
  - Two default RFS Filepools are already defined
  - Resource Definitions are already installed
  - LSRPOOL Definitions are already updated
- What you ultimately need to do...
  - Copy some LIBR members
  - Check/Update the CICSTART.PROC
  - Modify the LIBDEF search chain for CICS

- Appendix K
  - K.4 Rename supplied procedures
    - Copy members from the shipped sublibrary to a User defined sublibrary
    - 36 members are copied
  - K.5 Update the copied CICSTART.PROC
    - In the User defined sublibrary
    - If you're using a default user like SYSA, nothing needs to be touched

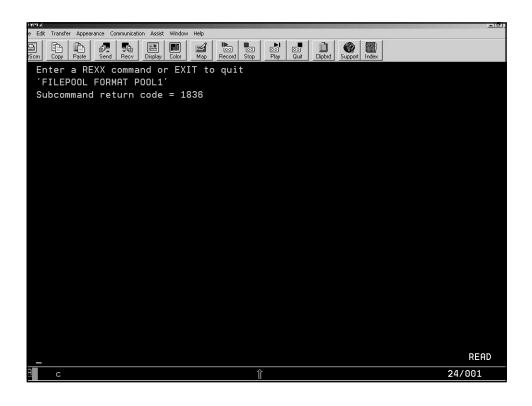
- Appendix K
  - K.6 Update CICS Initialization JCL
    - Update the LIBDEF search chain to pick up the User defined sublibrary
    - Before you recycle CICS with the new search chain!
      - Check Appendix K.8 for the Extended DSA requirements to create the REXX Help files (10 meg free of EDSA)
      - Modify EDSALIM as required in startup JCL

- Appendix K
  - K.7 Format the RFS Filepools
    - The manual suggests using either single (') or double quotes (") to delimit REXX commands.
    - The canned shipped Filepools format instantaneously
    - If you attempt to reformat a filepool, you'll receive: "Subcommand return code = 1836"



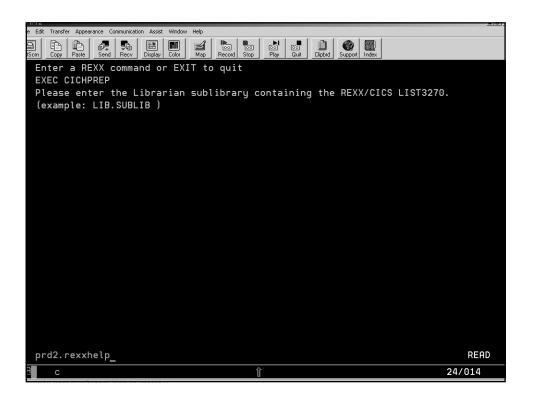






- Appendix K
  - K.8 Create the Help files
    - Check your EDSA to insure that 10 Meg is free
    - Copy four members to the User defined sublibrary
      - COPY CICR3270.Y : CICR3270.BOOK (This is actually the full CICS TS REXX Guide)
      - COPY CICINDEX.N: CICINDEX.PANSRC
      - COPY CICSNDX.N: CICSNDX.PANSRC
      - COPY CICCHAP.N: CICCHAP.PANSRC





```
Eck Transfer Appearance Communication Assist Window Help

Enter a REXX command or EXIT to quit

EXEC CICHPREP
Please enter the Librarian sublibrary containing the REXX/CICS LIST3270.

(example: LIB.SUBLIB )

Please enter the Librarian sublibrary containing the HELP panels.

(example: LIB.SUBLIB )

11: 37: 37 Building INDEX and CHAPTER files. Please be patient.

11: 37: 37 Building Chapter files

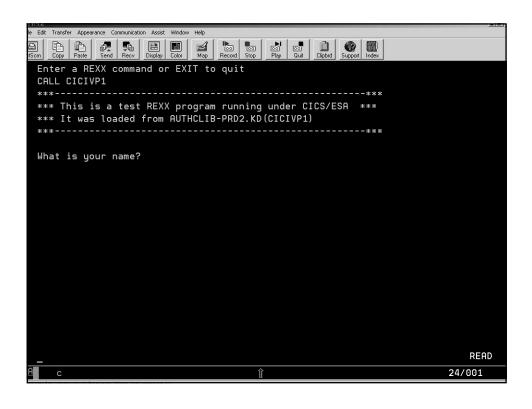
11: 38: 04 Chapter files are built

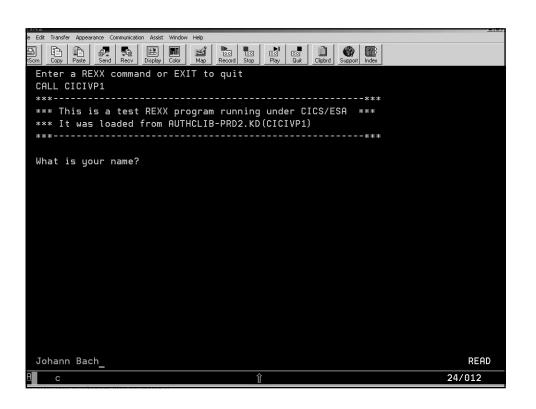
11: 38: 04 Building Appendix files.

11: 38: 10 Appendix files are built

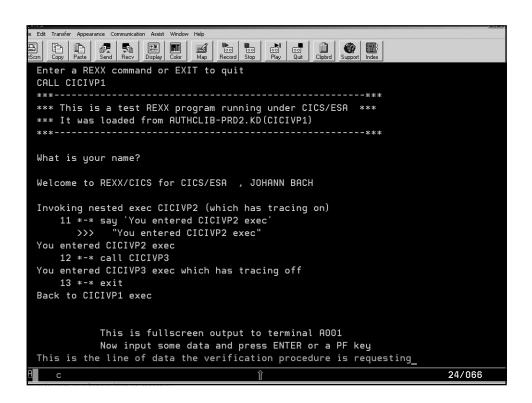
11: 38: 10 36 Files built, all done !!
```

- Appendix K
  - K.9 Verify the Installation
    - Ran quick and Clean
  - K.10 Configure the REXX DB2 Interface
    - Optional and did not perform





```
Copy Paste Send Recv Display Color Map Record Stop Play Qut Cliptid Support Index
Enter a REXX command or EXIT to quit
CALL CICIVP1
*** This is a test REXX program running under CICS/ESA ***
*** It was loaded from AUTHCLIB-PRD2.KD(CICIVP1)
What is your name?
Welcome to REXX/CICS for CICS/ESA , JOHANN BACH
Invoking nested exec CICIVP2 (which has tracing on)
    11 *-* say 'You entered CICIVP2 exec'
>>> "You entered CICIVP2 exec"
You entered CICIVP2 exec
    12 *-* call CICIVP3
You entered CICIVP3 exec which has tracing off
    13 *-* exit
Back to CICIVP1 exec
            This is fullscreen output to terminal A001
            Now input some data and press ENTER or a PF key
                                                                              24/001
```

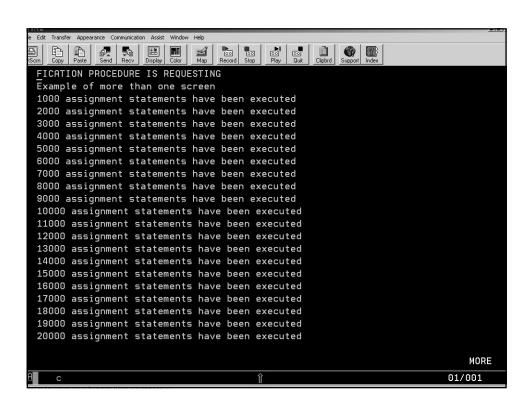


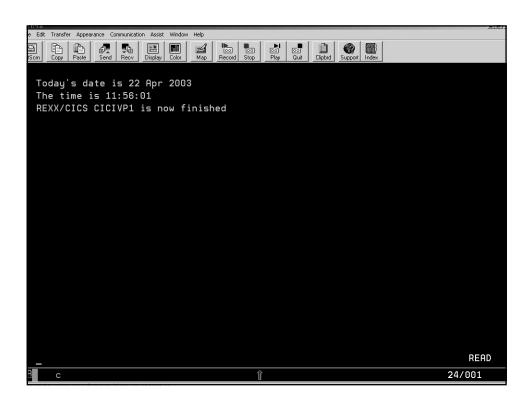
```
Edit Transfer Appearance Communication Assist Window Help

Sorm Copy Paule Send Recv Display Color Map Record Stop Play Quit Ciphed Support Index

The AID key that was pressed = ENTER
The cursor was at (Row Col): 24 66
The data that was entered (Row Col Data): 24 1 THIS IS THE LINE OF DATA THE VERI

MORE
```

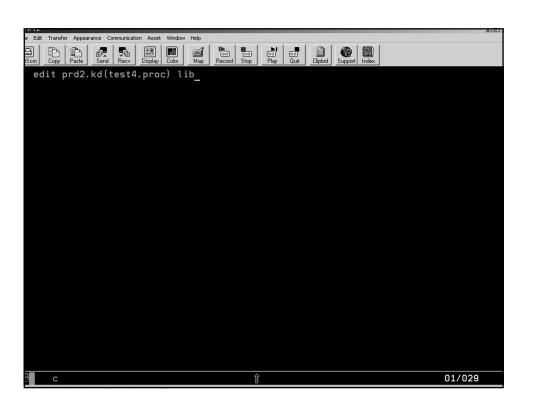




# Rexx for CICS TS - A. Error Numbers and Messages - B. Return Codes - C. DBCS Support - D. Reserved words and special variables - E. Debug Aids - F. REXXCICS Business Value Discussion

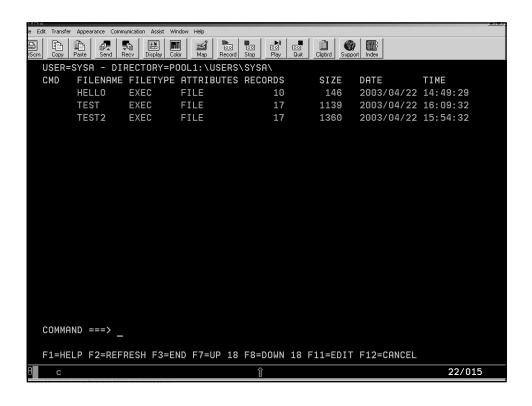
- Appendixes
  - G. System Definition, Customization and Administration
  - H. Security
  - I. Performance considerations
    - States that an EXEC CICS SUSPEND is automatically issued very 1024 clauses so that a REXX application doesn't monopolize the system
  - J. Basic Mapping Support
- Contain a wealth of information

- REXX EDITOR
  - Editor built and invoked by "EDIT"
    - Syntax: EDIT *poolid:\dir1\dir2\fn.ft*
  - Can edit either:
    - Members that reside in REXX Filepool
    - Members that reside in a VSE sublibrary



```
EDIT ---- PRD2.KD(TEST4.PROC)
COMMAND ===>
00001 /* REXX TEST4 EXEC */
00002 /*
00003 number_one=0
00004 number_two=0
00005 number_three=0
00006
00007 answer_1=0
00008 answer_2=0
00009
00010 say "Specify first number to be added"
00011 pull number_one
00012 say number_one
00013
00014 say "Specify second number to be added"
00015 pull number_two
00016 say number_two
00017
00018 say "Specify third number to use as a multiplier" 00019 pull number_three
00020 say number_three
F1=HELP F2=LADD F3=FIL F4=SPLT F5=F F6=JN F7=BA F8=FWD F10=LFT F11=RGT F12=QUI
                                                                 02/015
```

- File list transaction
  - There is a transaction name FLST
    - Similar to the XEDIT Filelist function in VM
    - Displays members within a Filepool
    - Allows
      - Direct Editing of a member via a PF key
      - Allows member manipulation via Commands entered on the Command line

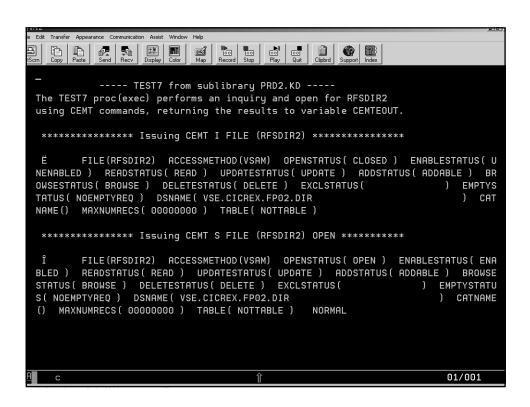


- Import & Export Commands
  - Import members from a VSE sublibrary
  - Export members to a VSE sublibrary
    - Suggest checking your CICS TS REXX maintenance to make sure it's up to snuff before trying to Export...



- Sample of a simple REXX program
  - Issues CEMT commands
  - Displays results on screen
    - Variables exist so that you could redirect output to a file
  - REXXCICS environment Exec invocation
    - Outside environment issue "REXX execname"
    - Within environment issue "CALL execname"

```
Copy Paste Send Recv Displey Color Map Record Stop Play Quit Cipbrd Support Index
TEST7
        PROC
                 A1 F 80 Trunc=80 Size=32 Line=11 Col=1 Alt=5
     |...+...1...+...2...+...3...+...4...+...5...+...6...+...7..
==== say " "
==== say "
                  ---- TEST7 from sublibrary PRD2.KD -----
===== say "The TEST7 proc(exec) performs an inquiry and open for RFSDIR2 "
==== say "using CEMT commands, returning the results to variable CEMTEOUT."
==== say " "
===== "CEMT I FILE (RFSDIR2)
==== say " "
===== say cemteout
==== say "
==== say " ************** Issuing CEMT S FILE (RFSDIR2) OPEN ***********
===== "CEMT S FILE (RFSDIR2) OPEN
==== say " "
===== say cemteout
==== say " "
===== /* CLOSE FILE NOW */
===== "CEMT S FILE (RFSDIR2) CLOSED"
==== exit
====>
                                                     XEDIT 1 File
                                                               23/007
```



```
Display Color Map Record Stop Play Quit Clipbrd Support Index
Enter a REXX command or EXIT to quit
CALL TEST7
          ---- TEST7 from sublibrary PRD2.KD -----
The TEST7 proc(exec) performs an inquiry and open for RFSDIR2
using CEMT commands, returning the results to variable CEMTEOUT.
 ******** Issuing CEMT I FILE (RFSDIR2) *************
       FILE(RFSDIR2) ACCESSMETHOD(VSAM) OPENSTATUS( CLOSED ) ENABLESTATUS( U
NENABLED ) READSTATUS ( READ ) UPDATESTATUS ( UPDATE ) ADDSTATUS ( ADDABLE ) BR
OWSESTATUS( BROWSE ) DELETESTATUS( DELETE ) EXCLSTATUS( TATUS( NOEMPTYREQ ) DSNAME( VSE.CICREX.FP02.DIR
                                                                     ) EMPTYS
                                                                        ) CAT
NAME() MAXNUMRECS( 00000000 ) TABLE( NOTTABLE )
 FILE(RFSDIR2) ACCESSMETHOD(VSAM) OPENSTATUS(OPEN) ENABLESTATUS(ENA
BLED ) READSTATUS ( READ ) UPDATESTATUS ( UPDATE ) ADDSTATUS ( ADDABLE ) BROWSE
STATUS ( BROWSE ) DELETESTATUS ( DELETE ) EXCLSTATUS (
                                                                 ) EMPTYSTATU
S( NOEMPTYREQ ) DSNAME( VSE.CICREX.FP02.DIR
                                                                    ) CATNAME
() MAXNUMRECS( 00000000 ) TABLE( NOTTABLE )
                                               NORMAL
                                                                         MORE
                                                                      24/001
```

- REXX filepools and sublibraries
  - Entering only "REXX", just opens the Filepool Directory (first reference)
  - Invocation of a REXX EXEC, opens the Filepool (first reference)
  - EXECs can be invoked from either a filepool or sublibrary
  - Calls work in either direction between filepools and sublibraries

• A multitude of Environments

- REXXCICS CICS (EXEC CICS)

– EXECSQL EDISVR

- FLSTSVR RFS

- RLS

- Extensive discussion about using the "Address' command and the use of the variable "curenv", which returns the current environment

- Summary
  - Minimal Setup
  - Easy to use
  - Documentation is good
  - Make sure REXX maintenance is current