REXX FOR Windows, NT, etc.

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REXX for Windows, NT, etc.

- Windows and NT Specific
- Generic Dialogs
- Excel
- Networking
Windows and NT Specific

- Sending keystrokes
- Clipboard
- Address DOS
- Window information and control
Sending keystrokes with "address keys"

- Send one or more keystrokes to the active application
- Keystroke notation borrowed from Visual Basic
- Delays should be inserted between time consuming operations
Keystroke notation

- Alt = %
- Shift = +
- Control = ^
- Esc = {esc}, Tab = {tab}, etc
- {%%} = %, {{}} = {, etc
So for example in the notepad:

- address keys "%fomyfile.txt{enter}"
- Opens the File menu with Open for the file myfile.txt
Issuing DOS commands with "address DOS"

- DOS commands can be issued but:
  - They run asynchronously
  - There is no error or failure status returned
Window status

- `winExe()` - return active window ".exe" name
- `winTitle()` - return active window title
- `winInTaskList()` - return "1" if the window is in the task list
Window control

- `winMinimize()` - minimize the active window
- `winMaximize()` - maximize the active window
- `winRestore()` - restore the active window
- `winClose()` - close the active window
- `winSwitchTo()` - make the specified window active
/*
** Module =
**  ixcorp2.rex
**
** Abstract =
**  login to ixcorp2 with telnet from Windows
**
** History =
**  11-May-93 nfnm Added this comment
**
** Possible future enhancements =
**
*/

* first look for a telnet already running
if winInTaskList("Telnet*") = 1 then
  do
    call winSwitchTo("Telnet*")
    call winRestore
    exit
  end

* first prompt for my password
password = DialogPrompt("Password?","")

* fire up telnet
address dos "d:\netmanag\telnet.exe"

* wait for telnet
do while winInTaskList("Telnet*") = 0
  call winsleep .1
end

 call winsleep .5
/*
 * ALT-C ALT-N then the system name and wait for the connection
 */
address keys "%c%n"
address keys "ixcorp2"
address keys "{enter}"
call winsleep 1
/*
 * enter my userid
 */
address keys "nfnm"
address keys "{enter}"
call winsleep 1
/*
 * enter my password
 */
address keys password
address keys "{enter}"
Clipboard

- winClipboardGet() - get text contents of clipboard
- winClipboardSet() - set text contents of clipboard
Generic Dialogs

- DialogFileGet() - prompt for an input file
- DialogFileSet() - prompt for an output file
- DialogMessage() - display a message box
- DialogList() - display a list of choices
- DialogPrompt() - prompt for input
Excel

- REXX is being used with Excel on both the Macintosh and Windows
  - To extract data on the Macintosh using Apple Events
  - To extract data in Windows using the Dynamic Data Exchange
Networking

- Data transfer
- Remote execution of REXX programs
Data transfer to and from a server

- Windows and Macintosh REXX programs send and receive data through TCP/IP.

- REXX's string orientation avoids the need for an XDR
RS6000 running a REXX internet server. Eventually the server will access an Informix database with RX3QL.

Ethernet

Macintosh

Running Chameleon with Windows socket interface and is running a REXX internet client

Hypothetical PC running Windows/NT with built in TCP/IP and a REXX internet client

The Macintoshes have MacTCP installed and are running a REXX internet client

PC

Macintosh

PC

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Remote execution of REXX programs on a server

- PCs and Macintoshes can send program strings to the server for remote execution
- Commands can be sent from the server back to the client
- The remotely executing program's variable pool is accessible on the client
Remote execution of REXX programs on a UNIX server

The REXX program executes on the RS6000

Shared Variable interface and commands

REXX programs and parameters sent to the server

REXX program result returned to client

REXX program on client disk

RS6000 server

PC client