

[Q]: Библиотеки для программирования на Rexx

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Для начала - ydbautil. ИМНО наиболее полная библиотека того, чего в REXX обычно недостает с начала работы. В настоящее время я пользуюсь Release 1.8.

Вторая библиотека - rhasunc, предназначена для работы с COM-портами. Полный набор функций низкого уровня, т.е. без протоколов, упаковки, модемов.

Rxsocket - набор функций для работы с TCP/IP из REXX.

Rxipc - Inter Process Communication для REXX. Перекрывается возможностями ydbautil. Более подробно сказать что-либо сложно.

EPMBBS - пакет для написания макро к EPM на REXX и собственном макроязыке EPM-а.

Есть еще библиотеки, позволяющие использовать некоторый набор controls в PM-программах из REXX, обычно Message Box, Input Line с кнопками Ok и Cancel, List Box и т.п. Но для такого случая, ИМНО лучше VX-REXX не придумать.

Вот список функций, которые имеются в ydbautil:

Function Package utility functions

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RxYdbaUtilInit      - Register all YDBAUTIL Rexx functions
RxYdbaUtilTerm      - De-Register all YDBAUTIL Rexx functions
RxYdbaUtilQuery     - Query function package version and available
                      external function entry point names
```

UPM/Net Related

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-----
RxUpm               - Rexx interface to UPM
RxNet                - Rexx interface to certain NET calls
                      (also some UPM-related calls)
```

System-Info related

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RxProcId            - Get process' own PID and TID information
RxGetInfoBlocks     - Get information about current process/thread
RxQueryAppType      - Get information about an executable file
RxQuerySysInfo      - Invoke DosQuerySysInfo
RxQProcStatus       - Obtain Process Status Information (like PSTAT)
RxSetError          - Set DosError settings (enable/disable HardError
                      and Exception popups)
RxReplaceModule     - Replace an active .DLL or .EXE file
RxExitList           - Use DosExitList
RxDevConfig         - Obtain device configuration information
RxDevIOCtl          - Do DosDevIOCtl calls (to talk to character devices
                      directly)
```

Rexx programming and debugging functions

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RxVlist           - List, manipulate Rexx variable pool
RxGlobalVar       - Put,Get,Delete system-wide global variables
RxScout           - Count strings (needle) in another string (haystack)
RxPmPrintf        - Write lines to a PMPrintf Monitor
RxCallInStore     - Execute a string as a program
RxTokenize        - Tokenize ("Compile") a program string
RxPullQueue       - Pull items from any Rexx data queue
RxAddQueue        - Add items to any Rexx data queue
RxQueued          - Query number of items on any Rexx data queue
RxQExists         - Query existence of a Rexx Queue
RxSearchPath      - Find a file in a path
RxRegisterFunctionExe - Use "RexxRegisterFunctionExe()"
RxRegisterExitDll - Use "RexxRegisterExitDll()"
RxRegisterExitExe - Use "RexxRegisterExitExe()"
RxQueryExit       - Use "RexxQueryExit()"
RxDeregisterExit  - Use "RexxDeregisterExit()"

```

I/O related

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RxRsoe2f          - Redirect StdOut/StdErr to a file (by file name)
RxRsoe2q          - Redirect StdOut/StdErr to a rexx queue
                   (by queue name)
RxSoSe2H          - Redirect StdOut/StdErr to a file (by file handle)
RxSi2H            - Redirect StdIn from a file (by file handle)
RxRSi2F           - Redirect StdIn from a file (by file name)
RxOpen            - Open a file (with full DosOpen capabilities)
RxRead            - Read data from a file handle
RxWrite           - Write data to a file handle
RxCloseH          - Close a file handle
RxExecI           - Read data into a Rexx queue or stem from a file
RxExecO           - Write data from a Rexx queue or stem to a file
RxVioPopUp        - Start a VioPopUp display screen
RxVioEndPopUp     - Close a VioPopUp display screen
RxVioWrtCharStrAtt - Write characters to a VioPopUp display screen
RxKbCharIn        - Get a character from a VioPopUp display screen
RxDupHandle       - Do a "DosDupHandle()"
RxSetFHState      - Set file handle state
RxQueryFHState    - Query file handle state

```

OS/2 Pipes

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-----
RxCreateNPipe     - Create a named pipe
RxConnectNPipe    - Connect to a named pipe
RxDisconnectNPipe - Disconnect from a named pipe
RxCreatePipe      - Create an un-named pipe
RxDestroyPipe     - Destroy a pipe

```

OS/2 Queues

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RxCreateQueue     - DosCreateQueue

```

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RxOpenQueue      - DosOpenQueue
RxPeekQueue      - DosPeekQueue
RxReadQueue      - DosReadQueue
RxWriteQueue     - DosWriteQueue
RxPurgeQueue     - DosPurgeQueue
RxQueryQueue     - DosQueryQueue
RxCloseQueue     - DosCloseQueue
RxReadQueueStr   - Returns data from de-referenced queue pointer

```

NetBios information

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RxNbSessionStatus - Obtain NETBIOS session status information

```

Tasking, threads, etc.

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RxSetPriority      - Set the priority of processes or threads

```

Process - Related

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RxKillProcess     - Kill an OS/2 process by process-id
RxExecPgm         - Execute a program using DosExecPgm
RxWaitChild       - Wait for a child process to end
RxStartSession    - Start a program in another session
                   (DosStartSession)
RxStartRexxSession - Start a Rexx program in another session
RxDetachRexxPgm   - Detach a Rexx program

```

Thread - Related

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RxCreateRexxThread - Execute a Rexx program on another thread
RxCreateThread     - Call a procedure address on another thread
RxKillThread       - Kill a thread by thread-id
RxResumeThread     - Resume thread execution by thread-id
RxSuspendThread    - Suspend thread execution by thread-id
RxCallEntryPoint   - Call a (non-Rexx) routine by entry point address

```

OS/2 Memory managment

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RxStructMap       - Generate a structure map for RxStruct2Stem()
RxStruct2Stem     - Map structure elements into a stem
RxStem2Struct     - Map a stem into structure elements
RxStorage         - Query/Alter storage by address
RxAdd2Ptr         - Pointer Arithmetic (Add/Subtract)
RxThunkAddr       - Thunk an address Flat->Segmented, Segmented->Flat
RxAllocMem        - Allocate Memory
RxFreeMem         - Free Memory
RxAllocSharedMem  - Allocated Shared memory (named or un-named)
RxGetSharedMem    - Get (gettable) shared memory
RxGiveSharedMem   - Give (giveable) shared memory
RxGetNamedSharedMem - Get named shared memory
RxSetMem          - Set memory attributes
RxQueryMem        - Query memory attributes
RxSubAllocMem     - Suballocate memory
RxSubFreeMem      - Free suballocated memory
RxSubSetMem       - Set memory for suballocation

```

RxSubUnsetMem - Unset previously "SubSet" memory

OS/2 Semaphores

Event Semaphore

RxCreateEventSem - Create an event semaphore
 RxCloseEventSem - Close an event semaphore
 RxOpenEventSem - Open an event semaphore
 RxPostEventSem - Post an event semaphore
 RxQueryEventSem - Query an event semaphore
 RxResetEventSem - Reset an event semaphore
 RxWaitEventSem - Wait on an event semaphore

Mutex Semaphore

RxCreateMutexSem - Create a Mutex semaphore
 RxOpenMutexSem - Invoke DosOpenMutexSem
 RxCloseMutexSem - Invoke DosCloseMutexSem
 RxQueryMutexSem - Invoke DosQueryMutexSem
 RxReleaseMutexSem - Invoke DosReleaseMutexSem
 RxRequestMutexSem - Invoke DosRequestMutexSem

MuxWait Semaphore

RxCreateMuxWaitSem - Invoke DosCreateMuxWaitSem
 RxCloseMuxWaitSem - Invoke DosCloseMuxWaitSem
 RxOpenMuxWaitSem - Invoke DosOpenMuxWaitSem
 RxWaitMuxWaitSem - Invoke DosWaitMuxWaitSem
 RxAddMuxWaitSem - Invoke DosAddMuxWaitSem
 RxDeleteMuxWaitSem - Invoke DosDeleteMuxWaitSem
 RxQueryMuxWaitSem - Invoke DosQueryMuxWaitSem

DLL Handling

RxLoadModule - Load a DLL
 RxFreeModule - Free a DLL
 RxQueryModuleName - Query the fully qualified name of a DLL (by handle)
 RxQueryModuleHandle - Query the module handle of a DLL (by name)
 RxQueryProcType - Query the addressing mode of an entry point in a
 DLL
 RxQueryProcAddr - Query the procedure address of an entry point in
 a DLL

Rexx Macro Space Handling

RxAddMacro - Add a particular Macro Space function
 RxDropMacro - Drop a particular Macro Space function
 RxClearMacroSpace - Clear the Rexx Macro Space
 RxSaveMacroSpace - Save a particular Macro Space function to a file
 RxLoadMacroSpace - Load a particular Macro Space function from a file
 RxQueryMacro - Query the position of a particular Macro Space
 function
 RxReorderMacro - Reorder a function's position in a Macro Space

PM / Wp related functions

RxWinQueryObject - Query object handle of a WP object
RxWinDestroyObject - Destroy a WP object

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Из RXU v1.a help:

Starting with this version of the RXU function package, all the pieces of the package will have the name RXU (no longer any references to YDBAUTIL).

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