

Portable Versions of ooRexx

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Overview

- Motivation and purpose
- Portable ooRexx
- Sample session on Windows
- Questions

Motivation and Purpose

- ooRexx 5.0.0 added the ability
 - To run ooRexx without installing it into the system
 - Full installations usually need administrator rights that are not always available
 - Running different versions of ooRexx in parallel on the same machine
 - `CMakeLists.txt` defines new target "`portable`", hence "`[n]make portable`" available
- Some use cases
 - Allow running different versions of ooRexx in parallel on the same machine
 - Showcasing
 - Testing
 - Using ooRexx as a "swiss army knife" (SAK) to carry along on an USB stick
- ooRexx 5.1.0beta versions supply the portable versions of ooRexx
 - [<https://sourceforge.net/projects/oorexx/files/oorexx/5.1.0beta/portable/>](https://sourceforge.net/projects/oorexx/files/oorexx/5.1.0beta/portable/)

Portable ooRexx, 1

- Simple zip-archives
 - Unblock and then unzip into a directory with the name of the zip archive
 - Different versions will unzip to different subdirectories
 - Change into the created subdirectory to run `setuppoorexx.{cmd|sh}`
 - If location changes (e.g. copying or new mount point) then rerun script from the new location
 - Files
 - **readme.txt**, explains the usage, please read! :)
 - **setuppoorexx.{cmd|sh}**, script that will use `bin/rexx` to run `setuppoorexx.rex` to create
 - `rxenv.{cmd|sh}`: sets up the environment to find this portable `rexx` binary first
 - `setenv2rxenv{cmd|sh}`: changes current shell's environment to find portable's `rexx` binary first
 - Generated shell scripts use **absolute paths** and can be therefore copied anywhere
 - **testoorexx.rex**: script to test generated (`rxenv.{cmd|sh}` and `setenv2rxenv.{cmd|sh}`) files

```
rxenv.{cmd|sh}          rexx testoorexx.rex
setenv2rxenv.{cmd|sh} rexx testoorexx.rex
```

Portable ooRexx, 2

- Directories
 - **bin**: binaries like `rexx[.exe]` and ooRexx packages like `json.cls`
 - **lib**: libraries like `{lib}rexx.{so|lib}`
 - **include**: include files like `oorexapi.h` or `rexx.h`
 - **doc**: documentation files like `rexxref.pdf`, `rexxapi.pdf` or `rxsock.pdf`
 - **samples**: sample files like `rexxcps.rex` or `concurrency.rex`
- Names of zip-archives
 - Like the normal installation packages in addition the string
 - `"-release"` or `"-debug"` to indicate how the binaries were compiled
 - If the string `"-runtime"` contained
 - Only includes the directories `"bin"`, `"lib"` and `"include"`

Available 5.1.0beta Versions (As Of 2023-05-10)

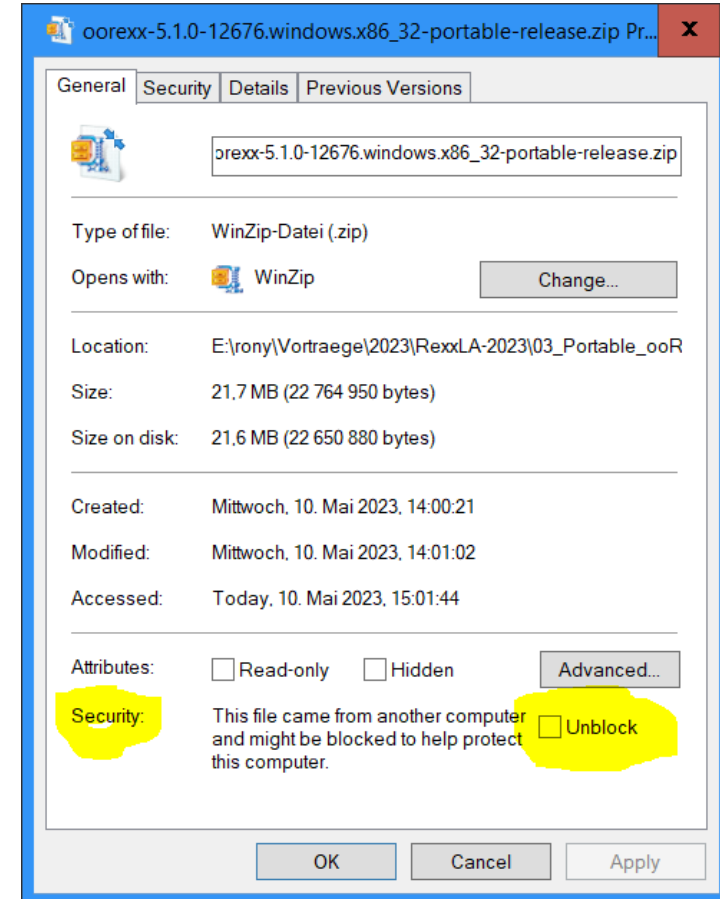
- Portable 5.1.0beta versions (Sourceforge)

↑ Parent folder

oorex-5.1.0-12676.opensuse15.x86_64-portable-release-runtime.zip	< 4 hours ago	1.4 MB
oorex-5.1.0-12676.opensuse15.x86_64-portable-release.zip	< 4 hours ago	9.8 MB
oorex-5.1.0-12676.centos9.x86_64-portable-release-runtime.zip	< 4 hours ago	1.4 MB
oorex-5.1.0-12676.centos9.x86_64-portable-release.zip	< 4 hours ago	9.7 MB
oorex-5.1.0-12676.raspberrypios32.armv7l-portable-release.zip	< 4 hours ago	9.6 MB
oorex-5.1.0-12676.raspberrypios32.armv7l-portable-release-runtime...	< 4 hours ago	1.3 MB
oorex-5.1.0-12676.debian11.x86_64-portable-release-runtime.zip	< 4 hours ago	1.4 MB
oorex-5.1.0-12676.debian11.x86_64-portable-release.zip	< 4 hours ago	9.7 MB
oorex-5.1.0-12676.windows.x86_32-portable-release-runtime.zip	< 4 hours ago	2.6 MB
oorex-5.1.0-12676.windows.x86_32-portable-release.zip	< 4 hours ago	22.8 MB
oorex-5.1.0-12676.fedora38.x86_64-portable-release-runtime.zip	< 4 hours ago	1.4 MB

Sample Windows Session, 1

- Download zip-archive, e.g.
`oorexx-5.1.0-12676.windows.x86_32-portable-release.zip`
- Unblock *before* unzipping it
 - To unblock, right mouse-click on the zip-archive, mark "Unblock", then click the "Apply" button
- Unzip the zip-archive
- Change into the subdirectory
`cd oorexx-5.1.0-12676.windows.x86_32-portable-release`
- Run "`setupoorexx.cmd`" and read output
 - Creates "`rxenv.cmd`" and "`setenv2rxenv.cmd`"



Sample Windows Session, 2

- Run REXX scripts **without** changing the environment permanently

```
rxenv.cmd rexx testooress.rex
```

Output:

```
At      : 2023-05-10T15:32:23.831000
source  : WindowsNT COMMAND E:\work\oorexx-5.1.0-12676.windows.x86_32-portable-release\testooress.rex
version : REXX-ooRexx_5.1.0(MT)_32-bit 6.05 10 May 2023
.RexxInfo:
  1: ARCHITECTURE .....: 32
  2: CASESENSITIVEFILES: 0
  3: DATE .....: 10 May 2023
  4: DEBUG .....: 0
  5: DIGITS .....: 9
  6: DIRECTORYSEPARATOR: \
  7: ENDOFLINE .....: "0D0A"x
  8: EXECUTABLE .....: E:\work\oorexx-5.1.0-12676.windows.x86_32-portable-release\bin\rexx.exe
  9: FORM .....: SCIENTIFIC
 10: FUZZ .....: 0
 11: INTERNALDIGITS ...: 9
 12: INTERNALMAXNUMBER : 999,999,999
 13: INTERNALMINNUMBER : -999,999,999
 14: LANGUAGELEVEL ....: 6.05
 15: LIBRARYPATH .....: E:\work\oorexx-5.1.0-12676.windows.x86_32-portable-release\bin
... cut ...
 27: REVISION .....: 12676
 28: VERSION .....: 5.1.0
```


Sample Windows Session, 3

- Run REXX scripts **with** changing the environment permanently

```
setenv2rxenv.cmd
```

```
rexx testooress.rex
```

Output:

```
At      : 2023-05-10T15:32:23.831000
source  : WindowsNT COMMAND E:\work\oorexx-5.1.0-12676.windows.x86_32-portable-release\testooress.rex
version : REXX-ooRexx_5.1.0(MT)_32-bit 6.05 10 May 2023
.RexxInfo:
  1: ARCHITECTURE .....: 32
  2: CASESENSITIVEFILES: 0
  3: DATE .....: 10 May 2023
  4: DEBUG .....: 0
  5: DIGITS .....: 9
  6: DIRECTORYSEPARATOR: \
  7: ENDOFLINE .....: "0D0A"x
  8: EXECUTABLE .....: E:\work\oorexx-5.1.0-12676.windows.x86_32-portable-release\bin\rexx.exe
  9: FORM .....: SCIENTIFIC
 10: FUZZ .....: 0
 11: INTERNALDIGITS ...: 9
 12: INTERNALMAXNUMBER : 999,999,999
 13: INTERNALMINNUMBER : -999,999,999
 14: LANGUAGELEVEL ....: 6.05
 15: LIBRARYPATH .....: E:\work\oorexx-5.1.0-12676.windows.x86_32-portable-release\bin
... cut ...
 27: REVISION .....: 12676
 28: VERSION .....: 5.1.0
```

Live Demo

Questions ?
