

Creating One-Click Installers for Open Object Rexx and the Bean Scripting Framework for Open Object Rexx for Microsoft Windows, Linux and Apple Mac OS X

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The main purpose of this thesis is to create One-Click Installers for BSF4ooRexx for the operating systems Microsoft Windows, Linux, and Apple Mac OS X.

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1 Introduction

The main purpose of this thesis is to create One-Click Installers for BSF4ooRexx for the operating systems Microsoft Windows, Linux, and Apple Mac OS X. The following chapters first give the reader a short introduction to the world of ooRexx and BSF4ooRexx and will later discuss the advantages and disadvantages of installers. Chapters 2, 3, 4 and 5 will take a closer look at the creation of installers for Microsoft Windows, Debian-based Linux, Red-Hat-based Linux and Apple Mac OS X. For understanding reasons the Mac OS X chapter requires the knowledge of [1].

1.1 ooRexx

“The programming language Open Object Rexx (ooRexx) is an object-oriented scripting language that was developed by IBM for its operating system OS/2.

It is an enhancement of the classic programming language Rexx and was initially developed for the operating system VM/SP, and later ported to the platforms MVS, OS/2 and PC-DOS. In October 2004, IBM gave the ooRexx source code for a couple of operating systems, including Microsoft Windows, Sun Solaris and Linux, to the Rexx Language Association (RexxLA), which released it under the Common Public License (CPL). The clear advantage of ooRexx is, that its syntax has large similarities to the English language and therefore it is very easy to learn and to understand. Besides its simplicity, it is a very mighty programming language and fully supports object oriented programming. Additionally, ooRexx offers full downward compatibility to the classic REXX language.” [1]

1.2 BSF4ooRexx

“The ‘Bean Scripting Framework for Open Object Rexx’ (in short BSF4ooRexx) is a project that enables a developer to access ooRexx from Java and vice versa. What started as proof-

of-concept-project in the context of a seminar at the University of Essen, Germany, in winter semester 2000/2001, rapidly developed into a highly interesting project with a large number of followers. In 2003, the 'Augsburg' version of BSF4ooRexx was released, which made it possible to load Java from ooRexx and to interact with Java objects. The access itself was quite complex at this time and constantly required the developer to explicitly define the Java data types when calling a Java Method. Because ooRexx, and therefore also BSF4ooRexx, are built upon the principle of simplicity, this problem had to be solved. Only three years later, the 'Vienna' version was released which not only improved the access to Java drastically, but also implemented support for OpenOffice.

BSF4ooRexx makes it, for example, possible to create graphical user interfaces (in short GUIs) or to automate Java applications from within ooRexx scripts. Especially the last point becomes very important in connection with the automation of OpenOffice and lets one sense the high value of this project.” [1]

1.3 Installers

Installers are software programs that install applications on a user's operating system. Such installers may have a graphical interface and typically include procedures for installing and uninstalling software programs. Sophisticated installers also have a procedure for reinstalling, in order to add additional features afterwards or to repair a defective installation. Depending on their capabilities, a large number of installers can be distinguished.

The simplest form of an installer only copies files from the installer package to a destination directory on the user's hard disk. In this case, no scripts of any kind are executed before or after copying.

On the other hand, there are installers that can execute scripts before or after the copy process. Depending on the time of execution, such scripts are called preflight or postflight.

Additionally, installers can also check if specific preconditions are met. For example, if the required Java version for the program to be installed, is present.

The advantages and disadvantages of such installers will be discussed in further detail in chapter 1.3.1 and 1.3.2.

1.3.1 Advantages

The main advantage of an installer is its simplicity. The user can install a sophisticated software program by simply executing the installer. He or she does not have to worry about where files and folders have to be copied in order to make the program work. Most installers will also have an uninstall function, which allows the user to cleanly reverse all changes made during the installation without negatively influencing other installed applications.

1.3.2 Disadvantages

The primary disadvantage is, that in most installers the users possibilities to intervene is limited. Although this may not be a problem for inexperienced users, it could be problematic for advanced users, such as developers, that want to change the behavior of the installer. Due to their large number of features, the initial creation of such installers is quite complex, as it will be shown in the following chapters.

2 NSIS Installer for Windows

For the creation of the installer package for Windows, we used a program called Nullsoft Scriptable Install System, short NSIS [2].

Chapter 2.1 will take a closer look on the features of NSIS, followed by chapter 2.2, which shows how an installer will be created. Last but not least, chapter 2.3 will show the installer in action.

2.1 The Installer

Nullsoft Scriptable Install System (NSIS) is a script based Installer for Windows. It was developed by Nullsoft. NSIS is open source software and licensed under different free software licences [3].

It has no graphical user interface, so for a more comfortable development we used the HM NIS Editor [4].

2.2 Creating the Install Package for Windows with NSIS

For an easier handling, the installation files have been copied in one folder, which has the same structure like on the target system. This step is optional. The files can also be spread over the hard disk. Then the directory structure of the installation folder has to be created manually via script commands.

Chapter 2.2.1 will give a general overview of the NSIS script, followed by chapter 2.2.2, which describes the creation of the BSF4ooRexx Installer for Windows. The whole scripts will be found in chapter 6.2 in the Appendix.

2.2.1 General Introduction

A NSIS script has the extension `.nsi` and is a simple text document.

The script consists of

- Attributes,
- Sections,
- Functions and

- Variables.

Attributes, like shown in listing 1, set general properties of the installer. For example, `OutFile` sets the name of the package file and `InstallDir` the default installation directory. There are many other attributes, which can be set in the script.

```
1 OutFile "BSF4ooRexx_Setup.exe"
2 InstallDir "$PROGRAMFILES\BSF4ooRexx"
```

Listing 1: Usage of `OutFile` and `InstallDir` in NSIS.

A section contains commands, which logically belong together. The section `Uninstall` in listing 2 will be automatically called by the uninstaller. It removes the install directory with all the subdirectories.

```
1 Section Uninstall
2     RMDir /r "$INSTDIR"
3 SectionEnd
```

Listing 2: The section `Uninstall`.

There are two types of functions. A callback-function, which is shown in listing 3, will be called by the installer. In this example, a message box will be shown when the uninstallation was successful. Another function type is the user function. They can be called in sections or other functions by using the `Call` instruction [5]¹.

```
1 Function un.onUninstSuccess
2     HideWindow
3     MessageBox MB_ICONINFORMATION|MB_OK "$(^Name) was successfully
4     ↳ uninstalled."
5 FunctionEnd
```

Listing 3: A NSIS callback-function.

Sections and functions for the uninstaller have to start with the letters “un” and a dot (`un.`). Uninstall functions and sections cannot be used by install functions and sections and vice versa.

¹The “↳”-symbol indicates a continued line and is not part of the actual source code. It will be used in upcoming source codes as well.

Global variables are defined outside of sections and functions, as shown in listing 4.

```
1 Var JAVA_HOME
2 Var JAVA_VER
3 Var JAVA_INSTALLATION_MSG
```

Listing 4: Global variables in NSIS.

Auxiliary variables are only valid in the same function or section. The definition is shown in listing 5.

```
1 Push $0
2 Push $1
3 Push $2
```

Listing 5: Auxiliary variables in NSIS.

2.2.2 BSF4ooRexx NSIS Script

To create a new script, the user has to start the HM NIS Editor or another text editor. After starting the program, the window, depicted in figure 1, will be displayed.

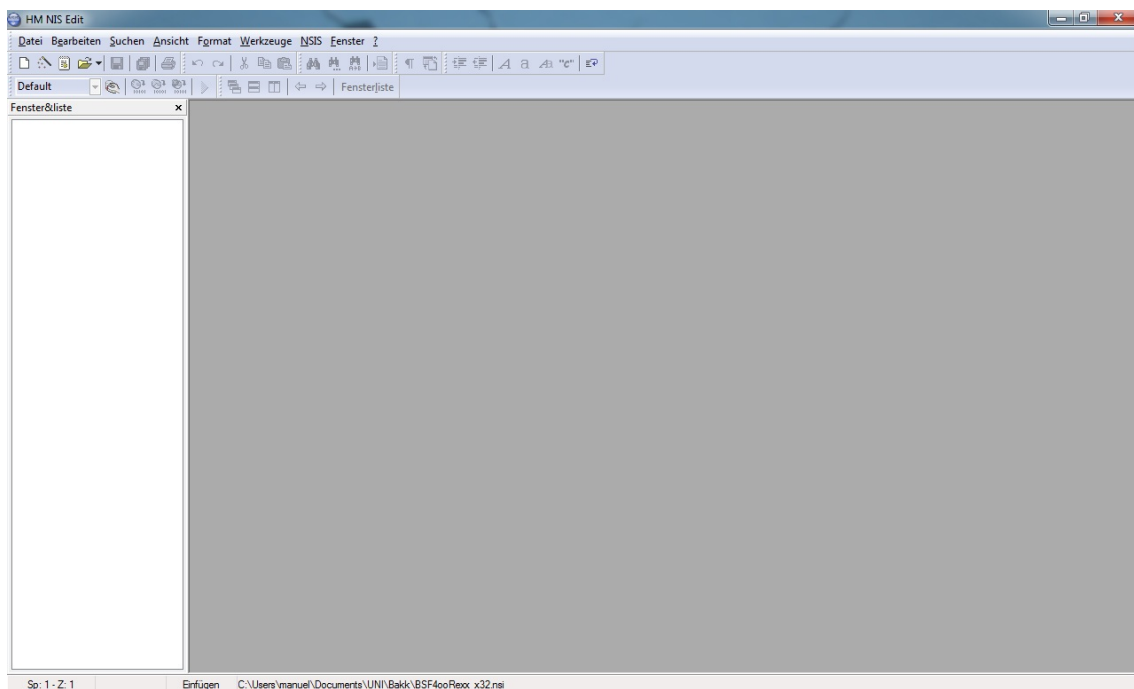


Figure 1: HM NSIS Editor.

First of all, we include the `MUI.nsh` and `EnvVarUpdate.nsh` header files as shown in listing 6. `MUI.nsh` gives the installer a modern user interface and the `EnvVarUpdate.nsh` header file allocates functions to manipulate the `PATH` environment variable. These macros come with every NSIS installation.

```
1 !include "MUI.nsh"
2 !include "EnvVarUpdate.nsh"
3
4 SetCompressor lzma
```

Listing 6: NSIS include- and compressor settings.

The command `SetCompressor lzma` defines that the Lempel–Ziv–Markov chain algorithm will be used to compress the installation package [6].

Then some constants, as shown in listing 7, have to be defined.

```
1 !define PRODUCT_NAME "BSF4ooRexx"
2 !define PRODUCT_UNINST_KEY "Software\Microsoft\Windows\...."
3 !define MUI_ICON "bsf4oorexx.ico"
4 !define MUI_UNICON "bsf4oorexx.ico"
5 ...
```

Listing 7: Definition of constants in NSIS.

Defines are compile time constants [5]. They can be defined at the beginning and then used in the script. A define starts with `!define`, followed by the constant name and the value. For example, `MUI_ICON` defines the icon of the installer, depicted in figure 2.



Figure 2: The BSF4ooRexx setup icon.

After the constants, the pages, which the installation wizard will have, will be defined.

2 NSIS Installer for Windows

```
1 !insertmacro MUI_PAGE_WELCOME
2 !define MUI_LICENSEPAGE_CHECKBOX
3 !insertmacro MUI_PAGE_LICENSE "License.txt"
4 !insertmacro MUI_PAGE_INSTFILES
5 !insertmacro MUI_PAGE_FINISH
```

Listing 8: Defining the installation wizard's pages.

The BSF4ooRexx installer, as shown in listing 8, has a welcome, license, installation progress and finish page. To accept the terms of the license agreement, we want a checkbox, which is set with the `!define MUI_LICENSEPAGE_CHECKBOX` command.

The uninstaller, as shown in listing 9, will only have a progress page.

```
1 !insertmacro MUI_UNPAGE_INSTFILES
```

Listing 9: Defining the uninstaller's progress page.

The language of the installer will be set with `MUI_LANGUAGE`. More than one language can be defined. As shown in listing 10, we only use English.

```
1 !insertmacro MUI_LANGUAGE "English"
```

Listing 10: Setting the installer's language.

With the attributes, shown in listing 11, the name of the installer, the file name and the installation directory will be defined. During the installation and uninstallation process, details will be displayed.

```
1 Name "${PRODUCT_NAME} ${PRODUCT_VERSION}"
2 OutFile "BSF4ooRexx_Setup.exe"
3 InstallDir "$PROGRAMFILES\BSF4ooRexx"
4 ShowInstDetails show
5 ShowUnInstDetails show
```

Listing 11: Defining additional attributes.

The function `.onInit`, as shown in listing 12, is a callback-function which will be called by the installer before the first installation window will be displayed. In this function, we check if the correct version of Windows², Java and ooRexx is installed and get the OpenOffice

²To check if the correct Windows architecture is installed, we use the `GetVersion` plugin [7].

and/or LibreOffice installation path if it is installed. With the command `Call`, we start some functions to check the requirements. Such a function is shown in listing 12. If the function returns an error, a message box is displayed and the installation process is cancelled.

```

1 Function .onInit
2     Push $0
3     Push $1
4     Push $2
5     InitPluginsDir
6
7     GetVersion::WindowsPlatformArchitecture
8     Pop $WINDOWS_ARCHITECTURE ;32 oder 64
9
10    Call getBSFVersion
11    Call FindooRexx
12    StrCmp "" $REXX_INSTALLATION_MSG RexxSuccess RexxNoSuccess
13
14    RexxSuccess:
15        Call FindJava
16        StrCmp "" $JAVA_INSTALLATION_MSG JavaSuccess JavaNoSuccess
17
18    JavaSuccess:
19        Call FindOpenOffice
20        Call FindLibreOffice
21        ReadRegStr $0 ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
22        ↪ "DisplayName"
23        ReadRegStr $1 ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
24        ↪ "DisplayVersion"
25        StrCmp $0 "^Name" FoundBSF
26        Goto Done
27
28    JavaNoSuccess:
29        MessageBox MB_OK|MB_ICONEXCLAMATION $JAVA_INSTALLATION_MSG
30        Goto Error
31
32    RexxNoSuccess:
33        MessageBox MB_OK|MB_ICONEXCLAMATION $REXX_INSTALLATION_MSG
34        Goto Error
35
36    FoundBSF:
37        IfSilent jump_if_silent jump_if_not_silent
38
39        jump_if_not_silent:
40            MessageBox MB_ICONQUESTION|MB_YESNO "Version $1 of BSF4ooRexx
41            ↪ is installed. You have to uninstall it before
42            ↪ installing this version. Would you like to uninstall it
43            ↪ ?" IDNO err

```

```

39
40     jump_if_silent:
41         ExecWait '$INSTDIR\uninst.exe' /S _?=$INSTDIR'
42         Goto Done
43 err:
44     MessageBox MB_OK|MB_ICONEXCLAMATION "The installation was aborted
45         ↪ ."
46     Abort
47 Error:
48     RMDir /r "$INSTDIR"
49     Abort
50
51 Done:
52     Pop $2
53     Pop $1
54     Pop $0
55 FunctionEnd

```

Listing 12: The onInit function.

The function `FindJava`, which is shown in listing 13, executes a `ooRexx` program (shown in listing 36 in the Appendix), which returns the Java version and -bitness and checks if the correct one is installed.

```

1 Function FindJava
2     Push $0
3     Push $1
4
5     SetOutPath "$INSTDIR"
6     File ".\java_version.rex"
7     ExecWait "rexx java_version.rex bitness" $0
8     ExecWait "rexx java_version.rex version" $1
9     Delete "$INSTDIR\java_version.rex"
10    StrCmp $0 "64" CheckVersion JavaVerNotCorrect
11
12    CheckVersion:
13        StrCmp $1 "1" Done JavaVerNotCorrect
14
15    JavaVerNotCorrect:
16        StrCpy $JAVA_INSTALLATION_MSG "You need Java version 1.4 (64 bit)
17        ↪ or newer to run this program."
18
19    Done:
20        Pop $1
21        Pop $0
22 FunctionEnd

```

Listing 13: The FindJava function.

The other functions are shown in chapter 6.2.1 in the Appendix.

The main procedure is the "BSF4ooRexx" SEC01 section. The most important parts are shown in listing 14. The whole procedure is also shown in chapter 6.2.1 in the Appendix.

```

1 Section "BSF4ooRexx" SEC01
2     SetOverwrite ifnewer
3
4     SetOutPath "$INSTDIR"
5     File "ApacheLicense2.0.txt"
6     File "asm_LICENSE.TXT"
7     File "bsf-rexx-engine.jar"
8     File "bsf-v400-20090910.jar"
9
10    ...
11
12    File /r ".\information"
13    File /r ".\install"
14    File /r ".\samples"
15    File /r ".\Templates"
16    File /r ".\utilities"
17
18    CreateDirectory "$SMPROGRAMS\BSF4ooRexx"
19    CreateShortCut "$SMPROGRAMS\BSF4ooRexx\GUI RexxTry Program (ooRexxTry
    ↪ .rxj).lnk" "$INSTDIR\utilities\ooRexxTry.rxj" "" "$INSTDIR\
    ↪ install\images\windows\oorexxtry.ico"
20    CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Information (ReleaseNotes,
    ↪ introductions to ooRexx, BSF4ooRexx overview).lnk" "$INSTDIR\
    ↪ information"
21
22    CreateDirectory "$SMPROGRAMS\BSF4ooRexx\Installation"
23    CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Download Page.lnk
    ↪ " "http://..."
24
25    CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Samples.lnk" "$INSTDIR\samples
    ↪ "
26    CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Utilities.lnk" "$INSTDIR\
    ↪ utilities"
27
28    WriteRegStr HKCR ".RXJ" "" "RexxJavaScript"
29    WriteRegStr HKCR ".RXJ" "Content Type" "application/x-rexx-java"
30    WriteRegStr HKCR ".RXJ" "PerceivedType" "text"
31    WriteRegStr HKCR ".RXJ\ShellNew" "FileName" "$INSTDIR\Templates\
    ↪ RexxJavaScript.rxj"

```

2 NSIS Installer for Windows

```
32
33 WriteRegStr HKCR "RexxJavaScript" "" "RexxJavaScript (Rexx script
    ↳ using Java) executed by ooRexx"
34 WriteRegStr HKCR "RexxJavaScript\DefaultIcon" "" "$INSTDIR\install\
    ↳ images\windows\bsf4oorexx.ico,0"
35 WriteRegStr HKCR "RexxJavaScript\shell" "" "open"
36 WriteRegStr HKCR "RexxJavaScript\shell\edit" "" "Edit"
37 WriteRegStr HKCR "RexxJavaScript\shell\edit\command" "" 'notepad.exe
    ↳ "%1"
38 WriteRegStr HKCR "RexxJavaScript\shell\open" "" "Run"
39 WriteRegStr HKCR "RexxJavaScript\shell\open\command" "" ' "$REXX_HOME\
    ↳ rexx.exe" "%1"
40
41 ...
42
43 StrCmp "" $OO_HOME SearchLibreOffice OOFound
44
45 OOFound:
46     KillProcDLL::KillProc "soffice.exe"
47     KillProcDLL::KillProc "soffice.bin"
48     ...
49     ; copy files
50     ...
51     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEprogram\"
52     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEBasis\program\
        ↳ classes\unoil.jar"
53     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\ridl.
        ↳ jar"
54     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\jurt.
        ↳ jar"
55     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\juh.
        ↳ jar"
56     ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$OO_HOMEprogram"
57     SetOutPath "$INSTDIR\install"
58     ExecWait '$OO_HOMEprogram\unopkg.exe' add --shared
        ↳ ScriptProviderForooRexx.oxt'
59     StrCmp "" $LO_HOME AddOfficeReg LOFound
60
61 SearchLibreOffice:
62     ...
63
64 LOFound:
65     ...
66
67 AddOfficeReg:
68     ...
69
70 Done:
71     ExecWait "$INSTDIR\install\associationChanged.exe"
```

Listing 14: The "BSF4ooRexx" SEC01 section (selection).

The attribute `SetOverwrite` determines whether an existing file should be overwritten or not [8]. `SetOutputPath` sets and (if it is necessary) creates the destination folder where the `File` commands will copy the files. The path next to the `File` command is the path to the file on the system where the installer will be created. The `/r` parameter specifies that all files and subdirectories of the folder will be copied recursively[9].

The function `CreateDirectory` creates a new folder by using the path in the quotes. `CreateShortcut` creates a new shortcut to the path in the first quotes. The second parameter is the path to the destination [8].

The command `WriteRegStr` creates a new entry in the registry. File type definitions and file extensions are registered by creating a key in `HKEY_CLASSES_ROOT` (HKCR). The first parameter is the root directory (in our case HKCR), the second one defines the subfolder. The third parameter defines the name of a key in the subfolder and the last one is the value of this key [10].

With `StrCmp`, two strings can be compared. If equal then jump to the `SearchLibreOffice` mark, otherwise to the `OOFound` mark [5].

Before the installation of the OpenOffice or LibreOffice support can be started, OpenOffice/LibreOffice has to be closed. So we use the `KillProcDLL::KillProc` [11] plugin function to kill all sorts of OpenOffice/LibreOffice processes.

The function `EnvVarUpdate` manipulates environment variables and is only available if the macro `EnvVarUpdate.nsh` (it comes with every NSIS installation) is included [12].

To execute `unopkg.exe` we use the function `ExecWait`. It waits *for the executed process to quit* [8] before the next command in the script will be executed. In the `Done` section, we start the `associationChanged.exe`, which is located in the `install` folder of the BSF4ooRexx installation directory. It refreshes all file association settings.

```

1 Section Uninstall
2     ...
3     RMDir /r "$INSTDIR"
4     RMDir /r "$SMPROGRAMS\BSF4ooRexx"
5
6     ...
7
8     DeleteRegKey HKCR ".JREXX"
9     DeleteRegKey HKCR ".ORX"
10    DeleteRegKey HKCR ".REXX"
11    DeleteRegKey HKCR ".REXXJ"
12    DeleteRegKey HKCR ".RXJ"
13
14    ...
15
16    ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-rexx-
17        ↪ engine.jar"
18    ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-v400
19        ↪ -20090910.jar"
20    ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$INSTDIR"
21    ...
22 SectionEnd

```

Listing 15: The Uninstall section.

The section `Uninstall` will be automatically executed by the uninstaller. The most important parts are shown in listing 15. The whole procedure is shown in chapter 6.2.1 in the Appendix.

It removes the installation- and start menu folder by using the function `RMDir`. The registry entries can be completely removed with the `DeleteRegKey` command. Entries in the environment variables will be deleted with the `un.EnvVarUpdate` function by using the parameter “R”. The function has the prefix `un.`, because only such functions can be executed in sections of the uninstaller.

2.2.3 BSF4ooRexx Reinstaller NSIS Script

The reinstaller script looks pretty much the same as the installer script, but it doesn’t have an user interface, so the lines in listing 8 can be removed.

Line 2 in listing 16 has to be added to the `.onInit` function.

```
1 JavaSuccess:
2     CopyFiles "$INSTDIR\BSF4ooRexx_Setup_x64_reinstall.exe" "$SYSDRIVE\"
3     Call FindOpenOffice
4     Call FindLibreOffice
5     Goto Done
```

Listing 16: The `JavaSuccess` function.

It copies the reinstaller to the root folder of the system drive to save it, because with the command in listing 17 we uninstall the existing version of `BSF4ooRexx`.

```
1 ExecWait '$INSTDIR\uninst.exe' /S _?=$INSTDIR'
```

Listing 17: Uninstalling the existing version of `BSF4ooRexx`.

This line has to be added to the top of the `"BSF4ooRexx" SEC01` section. In this section, the line in listing 18 has to be also replaced by listing 19.

```
1 File "BSF4ooRexx_Setup_x64_reinstall.exe"
```

Listing 18: The original line.

```
1 CopyFiles "$SYSDRIVE\BSF4ooRexx_Setup_x64_reinstall.exe" "$INSTDIR"
2 Delete "$SYSDRIVE\BSF4ooRexx_Setup_x64_reinstall.exe"
```

Listing 19: The replacement for the original line.

So the backup of the reinstaller is back in the installation folder.

2.2.4 Compile the package

There are different ways to compile the script:

- HM NIS Editor: Only one click on the “compile script” button (shown in figure 3),
- Command-Line: `makensis.exe script.nsi` or

- MakeNSIS Windows Wrapper, a windows GUI interface (called `makensisw.exe` and is stored in the NSIS installation directory).



Figure 3: HM NIS Editor's "compile script" button.

It is very important, that the reinstaller is compiled before the installer, otherwise the reinstaller cannot be added to the installation package.

2.3 Use Cases

The usage of the installer, reinstaller and uninstaller for Windows is explained in the following chapters.

2.3.1 Install

After double-clicking on the installer file, the installer starts and shows a dialog as depicted in figure 4.

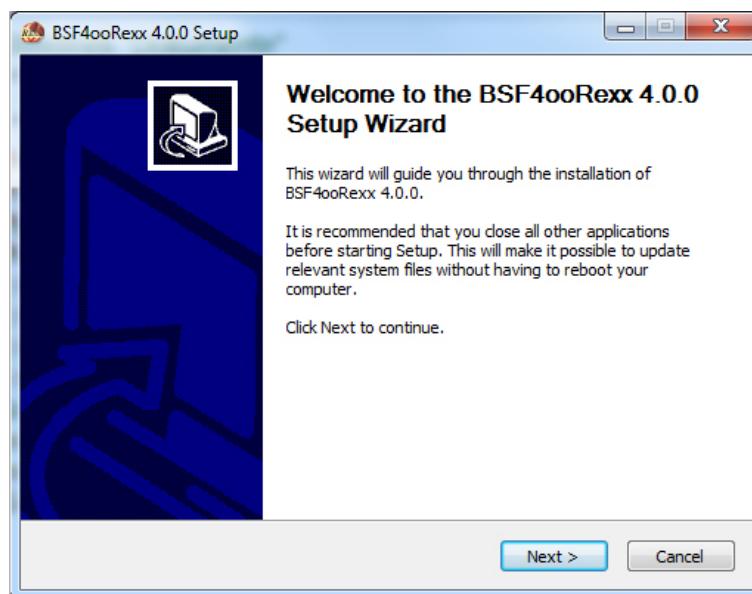


Figure 4: Welcome dialog of the BSF4ooRexx installer for Windows.

2 NSIS Installer for Windows

When the “Next” button will be clicked, the licence agreement, as shown in figure 5, will be displayed.

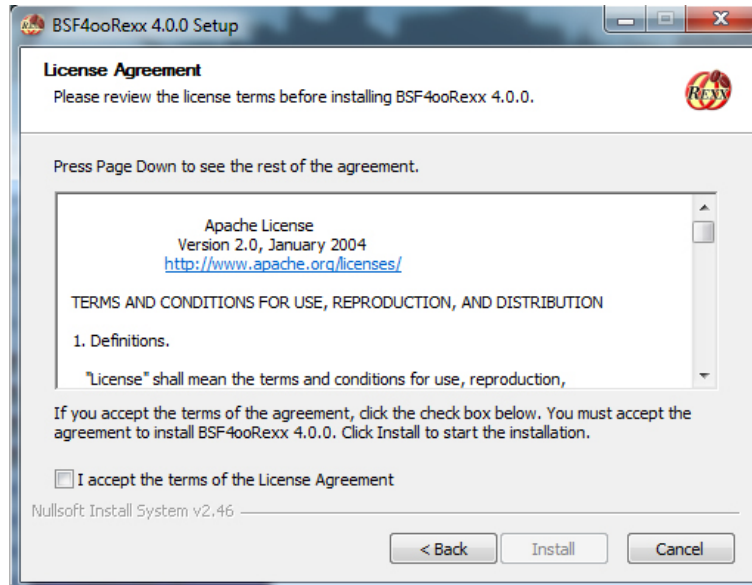


Figure 5: Licence agreement of the BSF4ooRexx installer for Windows.

After accepting the licence, the installation, as shown in figure 6, begins.

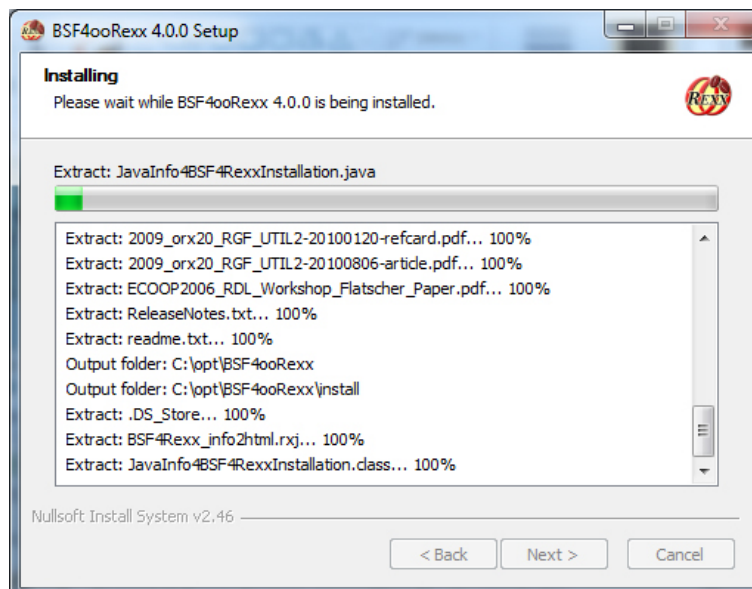


Figure 6: Installing window of the BSF4ooRexx installer for Windows.

The installation was successful, when the dialog, depicted in figure 7, is displayed.

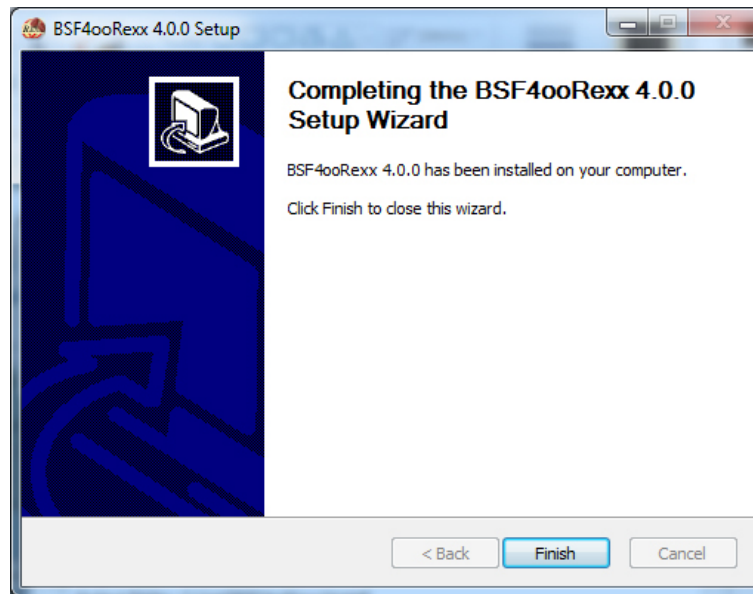


Figure 7: Finish dialog of the BSF4ooRexx installer for Windows.

2.3.2 Reinstall

The reinstaller is located in the `Installation` folder of the BSF4ooRexx start menu directory. After clicking on the menu item, the message shown in figure 11 will be displayed.

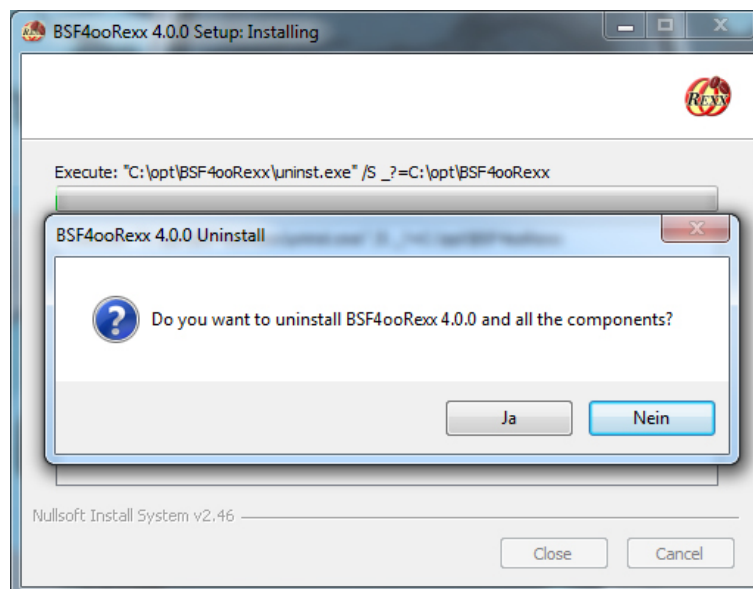


Figure 8: Uninstall message of the BSF4ooRexx reinstaller for Windows.

After accepting the message, the existing version of BSF4ooRexx will be uninstalled. When

the uninstallation was successful, the installation starts, as depicted in figure 9.

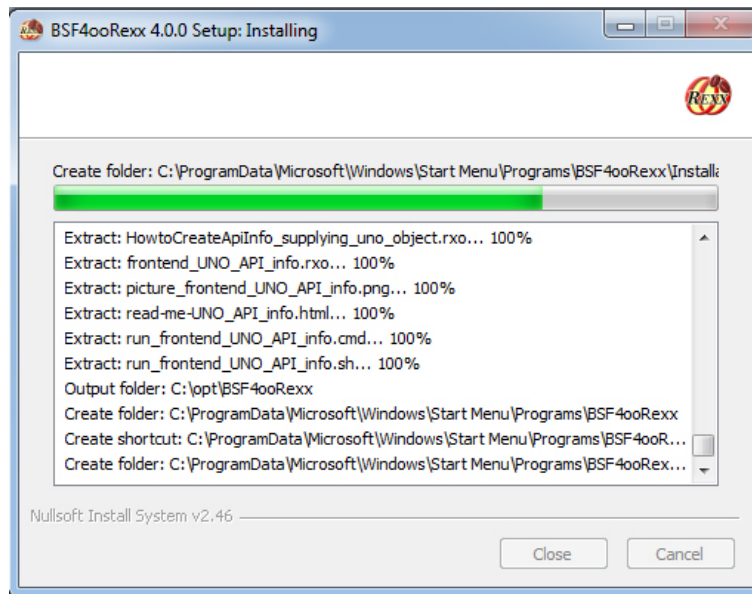


Figure 9: Installing window of the BSF4ooRexx reinstaller for Windows.

The reinstallation was successful, when the dialog, shown in figure 10, is displayed.

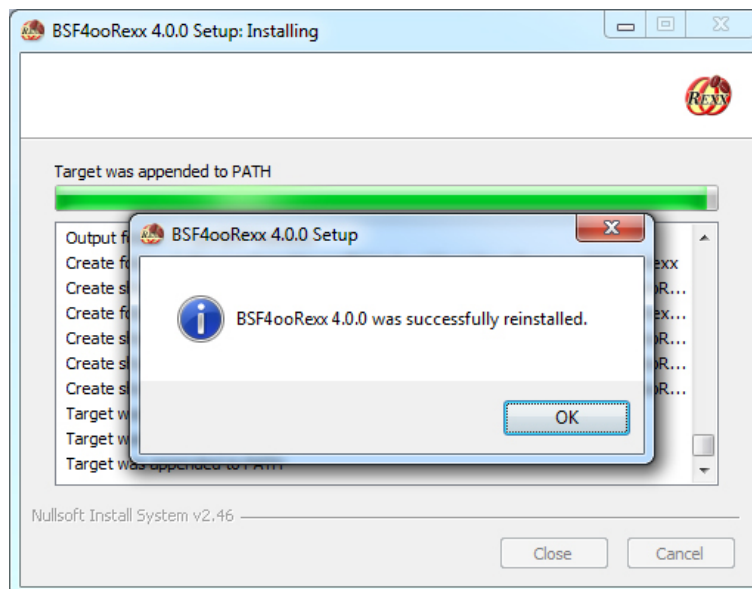


Figure 10: Finish dialog of the BSF4ooRexx reinstaller for Windows.

2.3.3 Uninstall

The uninstaller can also be found in the `Installation` folder of the BSF4ooRexx start menu directory. After clicking on the menu item, the message shown in figure 11 will be displayed.

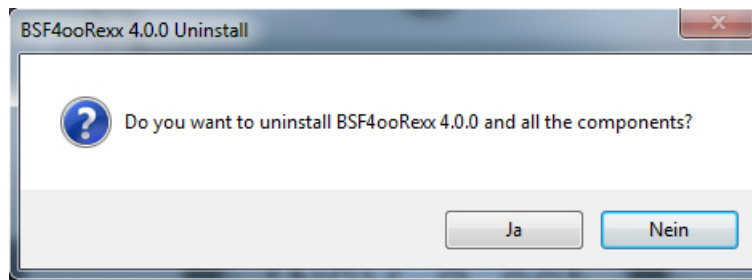


Figure 11: Uninstall message of the BSF4ooRexx uninstaller for Windows.

After accepting the message, the existing version of BSF4ooRexx will be uninstalled. During the uninstallation process, the dialog shown in figure 12, will be shown.

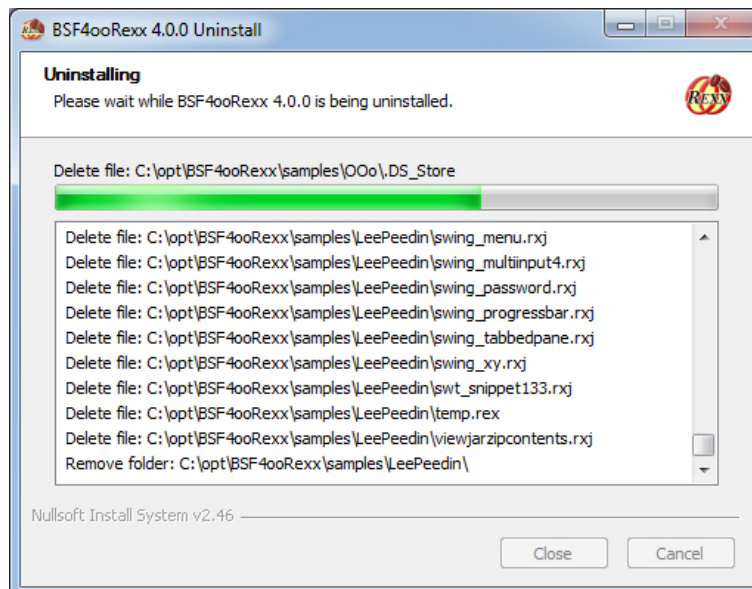


Figure 12: Uninstalling window of the BSF4ooRexx uninstaller for Windows.

The uninstallation was successful, when the message shown in figure 13 is displayed.

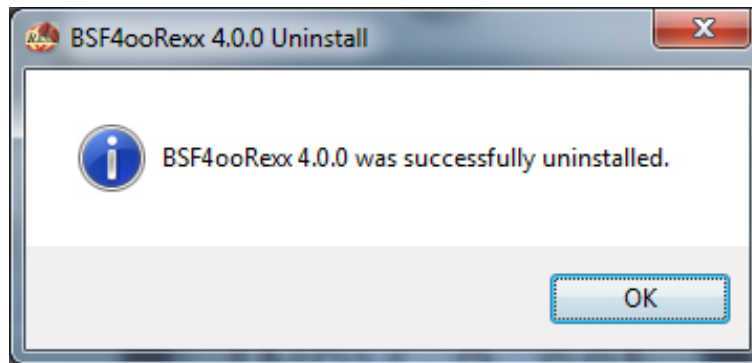


Figure 13: Finish message of the BSF4ooRexx uninstaller for Windows.

3 DEB Package for Debian-based Linux Distributions

For the creation of the installer package for Debian-based Linux distributions, we used the Debian Package Management System (`dpkg`) [13].

Chapter 3.1 will take a closer look on the features of this system, followed by chapter 3.2, which shows how a package will be created. Last but not least, chapter 3.3 will show the package in action.

3.1 The DEB Package System

A Debian package, or a Debian archive file, contains the executable files, libraries, and documentation associated with a particular suite of program or set of related programs. Normally, a Debian archive file has a filename that ends in `.deb` [14].

The following chapters will show how a Debian package for BSF4ooRexx can be built.

3.2 Creating the DEB Package for Debian-based Linux Distributions

To build a Debian package the following steps have to be taken:

1. Install the required software for building the Debian package.
2. Create a root folder that contains the installation files and the install information for the new package.
3. Create the package's meta data.
4. Create a file system structure within this folder and add the files that will be installed.
5. Add install scripts that are executed before or after the installation.
6. Build the package.

3.2.1 Install the required software

Actually, there are no special requirements that have to be met to create Packages on Debian-based Linux systems. The necessary components are used by the operating system every time a software component is installed from the central software repository or from a file located on the file system. Therefore, these components are installed during the initial setup of the operating system and don't have to be set up manually.

Nevertheless, it is recommended to install a good text editor for editing the packages install scripts and the meta data. We recommend to use Vim (as described in chapter 6.1.2) which is a very good editor that is available for nearly every operating system. But, of course, you can use every editor you like.

For installing the newly created package, on the other hand, it will be required to have the appropriate versions of Java and ooRexx installed. We will take a closer look at this issue in chapter 20.

3.2.2 Root folder

The root folder contains the files that will be installed on the target system. While installation, the directory structure given in the root folder will be copied to the target file system and additional scripts will be executed. These additional scripts are contained in a folder called `DEBIAN` within the root folder. To be executed correctly at the right time during installation, the additional scripts must follow explicit naming conventions [15]. We will take a look at this issue in chapter 3.2.5.

The root folder must have the same name as the resulting package. Generally, this name should follow the definition given in [16]: *“You must choose the package name to consist only of lower case letters (a-z), digits (0-9), plus (+) and minus (-) signs, and periods (.). It must be at least two characters long, must start with an alphanumeric character, and must not be the same as existing ones. It is a good idea to keep its length within 30 characters. ... If you need to invent a version string, use the YYYYMMDD format such as 20110429 as upstream³ version. This ensures that `dpkg` interprets later versions correctly as upgrades.”*

In our case, the project name is, of course, `bsf4oorexx`. The version and revision numbers follow the values given in BSF4ooRexx’s `BSF.CLS`. At the moment of writing this document it was `4.0.6.20110531`. Therefore, the version numbers have been chosen accordingly and the root folder called `bsf4oorexx-4.0.6.20110531` has been created. As mentioned above, the term `20110531` indicates that the package’s content was built on May 31st, 2011 and allows to give the user additional version information. After adding the installation files and the installation information, the package will finally have the structure depicted in figure 14. The necessary steps are described in the following chapters.

³“Upstream” is an often used term for the software components a package is built for, e.g. the BSF4ooRexx files which are normally distributed as .zip-Archive.

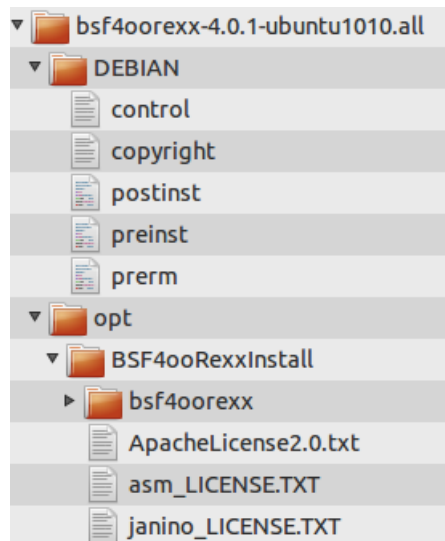


Figure 14: Debian package structure.

After creating the basic package structure, the next step is to create the package's meta data, which controls its behaviour while installation etc.

3.2.3 Meta data

The package's meta data (also called control information) is stored in a file called `control` inside the `DEBIAN` folder of the root directory [15]. Its content is shown in listing 20.

```
1 Package: bsf4oorexx
2 Version: 4.0.6.20110531
3 Section: Interpreted Computer Languages
4 Priority: optional
5 Homepage: http://sourceforge.net/projects/bsf4oorexx
6 Maintainer: BSF4ooRexx <bsf4oorexx-devel@lists.sourceforge.net>
7 Architecture: all
8 Description: Bean Scripting Framework for Open Object REXX (BSF4ooRexx)
9   BSF4ooRexx version for ooRexx 4.0.1 and later exploiting the new ooRexx
   ↳ kernel (e.g. allowing implementing Java methods in ooRexx,
   ↳ callbacks from Java to ooRexx). [Camouflages Java as the
   ↳ dynamically typed, caseless and easy to use ooRexx.]
10 Depends: oorexx (>= 4.0.1), openjdk-6-jdk, openjdk-6-jre
11 Recommends: openoffice.org (>= 3.2.0), openoffice.org-calc (>= 3.2.0),
   ↳ openoffice.org-draw (>= 3.2.0), openoffice.org-impress (>= 3.2.0),
   ↳ openoffice.org-writer (>= 3.2.0)
```

Listing 20: The control file.

`Package` simply describes the package's name as it is defined in the root folder's name. Please note that the version numbers etc. are omitted in the package name. Because the version information cannot be omitted completely it gets its own tag called `Version`. The version information is the second part of the root folder's name, to be exact, everything between the hyphens [16].

Software packages for Debian-based Linux distributions are organized in sections. These sections describe what kind of software the user is dealing with. For example, the section `admin` contains programs for administering the system. `net`, on the other hand, contains software for networking, e.g. email clients etc. Because `ooRexx` and `BSF4ooRexx` are programming languages we are using the same section as `ooRexx`, namely "Interpreted Computer Languages", here. This is done to ensure that users will find the `BSF4ooRexx` package in the same place as the `ooRexx` package. Nevertheless it would also be possible to use the predefined keyword "devel" here. The tag `priority` describes how important this package is for an average user. For new packages the value `optional` is the best choice. `Homepage` and `Maintainer` point to the developers of this package and are set accordingly. The architecture in this case is `all` and refers therefore to both bitnesses of 32 bit and 64 bit. [16].

Two very important settings are `Depends` and `Recommends`. `Depends` defines a list of other packages (and their versions) that have to be present before the actual package can be installed. In our case we defined, that Java (Version 1.6.0 or higher) and `ooRexx` (Version 4.0.1 or higher) have to be installed at least [16].

The possible settings for `Recommends` work quite similar. It doesn't list required packages, but packages that should be installed. In other words it lists packages that are recommended, as the tag name indicates. If they are not present the correct functionality of the actual package is not harmed. In our case, we recommend to install OpenOffice because

BSF4ooRexx is great for OpenOffice automation. If the user doesn't need the OpenOffice integration, he or she is still able to install the package without the OpenOffice capabilities. Finally, the `Description` tag can be used to give a short summary about the package's contents [16].

3.2.4 File system structure

Besides the `DEBIAN` folder with package information, the root folder also contains the files that have to be installed to the file system of the target system. These files are organized in a directory structure that represents the target system.

For example, if a file called `info.txt` has to be installed to the `/opt` folder of the file system, simply a folder called `opt` has to be created inside the root folder and the `info.txt` file has to be put in there. While installation, the `opt` folder in the root of the target file system will be created if it doesn't exist and the text file will be copied there [17].

Following this easy example we created a `opt` folder and put the BSF4ooRexx install folder in it. During installation this folder will be copied into the `opt` directory of the target system. From there we will be able to execute the installation scripts (which is described in more detail in the following chapter), that configure BSF4ooRexx for the target system.

3.2.5 Install scripts

The file system structure is, as defined in chapter 3.2.4, a vital part of the installation package but its abilities are limited to simple copy-and-paste operations. In order to add some logic to the package and make it more intelligent, it is possible to define up to four scripts with predefined names that are executed on special conditions [15, 16]:

- `preinst` – This script defines operations that have to occur before the contents of the package are copied and the `postinst` script is executed. This could be to stop

a specific service or create a user etc. We use this script to remove old versions of BSF4ooRexx from the `/opt` directory. The complete source code of the script is depicted in chapter 6.2.10 in the Appendix.

- `postinst` – Operations within this script are executed after the package's contents have been copied to their destination in the file system. Typical operations could be the restart of a service or the configuration of system-specific settings. In our case, we use the `postinst` script to run the `setupAllAndRun.rex` script from the BSF4ooRexx distribution to set up all required components. The script is shown in chapter 6.2.11 in the Appendix.
- `prerm` – As the name indicates, the `prerm`-script contains commands that are executed before the package is removed. We used it to remove all BSF4ooRexx files from the file system before the package itself is removed. The content of the `postrm` script is shown in chapter 6.2.12.
- `postrm` – This script contains commands that are executed after the package has been removed from the system. Typically, such commands restart a service, remove a user or clean up temporary data. This script type is not used in the package.

Please note that the scripts must use these predefined names. If they do not, the package will not work as intended.

As the first line indicates, these scripts are simple UNIX shell scripts that will be executed in a specific moment. Therefore they must be made executable using the UNIX `chmod` command, as shown in listing 21.

```
1 chmod +x postinst
```

Listing 21: Making the `postinst` script executable.

If, and only if the scripts have been made executable the package will work as intended. The lines in listing 6.2.11, for example, start a ooRexx-script that configures the system to

run ooRexx and BSF4ooRexx programs. Please note that it would be possible to include all the operations of this ooRexx-script into this file, but due to the fact that it works excellent where it is, it was decided to leave it there and just call the ooRexx-script from here. A wise person once said: “Keep it simple, stupid.” And that’s what we are trying to do here. Once executed, the configuration script will create file associations for ooRexx, will create the desktop shortcuts and will do many other useful things.

3.2.6 Building the package

After carrying out the previous steps we are finally ready to actually build the BSF4ooRexx package. To do so, we change into the directory where the root folder is located and start the package creation using the command given in listing 22 [17].

```
1 dpkg-deb --build bsf4oorexx-4.0.1-ubuntu1010.all
```

Listing 22: Building the Debian package.

After a few moments the Debian-package has been created and is ready to be distributed and to be installed.

3.3 Use Cases

The install, reinstall and uninstall features of the BSF4ooRexx Debian package are explained in the following chapters.

3.3.1 Install

The installation of a Debian package can either be carried out graphically, e.g. by using the Ubuntu Software Center or manually by invoking the corresponding commands from the command line. To install the package graphically the user must simply double-click on the

3 DEB Package for Debian-based Linux Distributions

file created in the steps above. On Ubuntu, the Software Center will be launched, showing some informations about the package and allowing the user to install the file. This case is shown in figure 15.

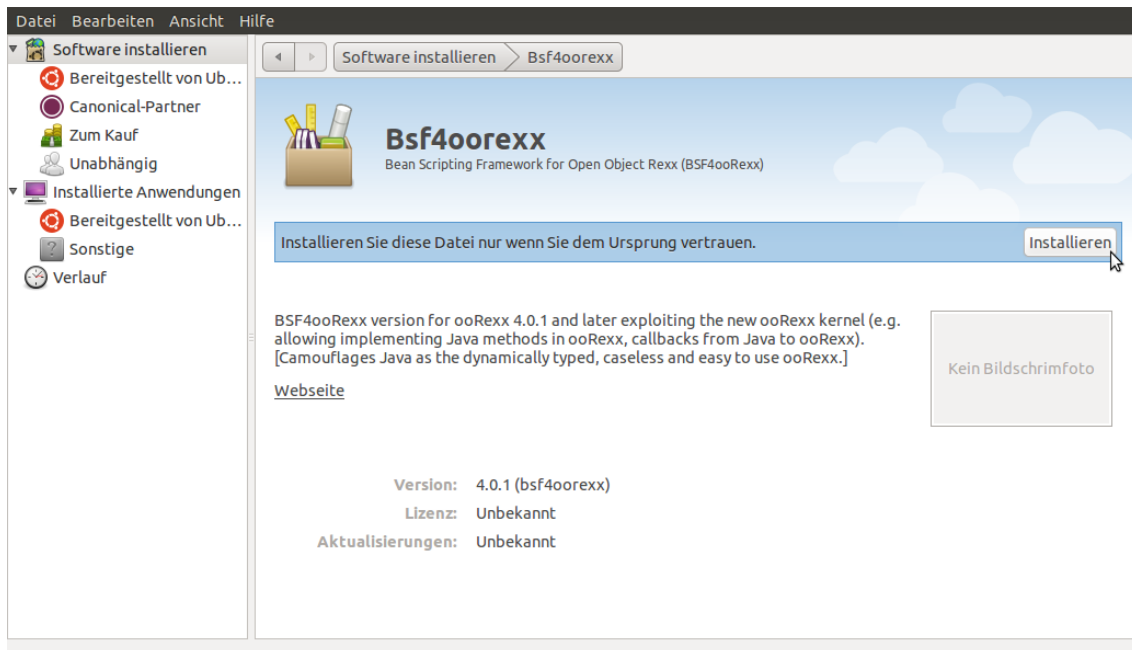


Figure 15: Installing the Debian package by using the Ubuntu Software Center.

When the user clicks on “Install”, he or she will be asked to authenticate as root user. Only if this step succeeds, the installation will start. It is necessary, because the system must approve that the user has sufficient privileges to make system wide changes by invoking the installer. This case is depicted in figure 16.

3 DEB Package for Debian-based Linux Distributions

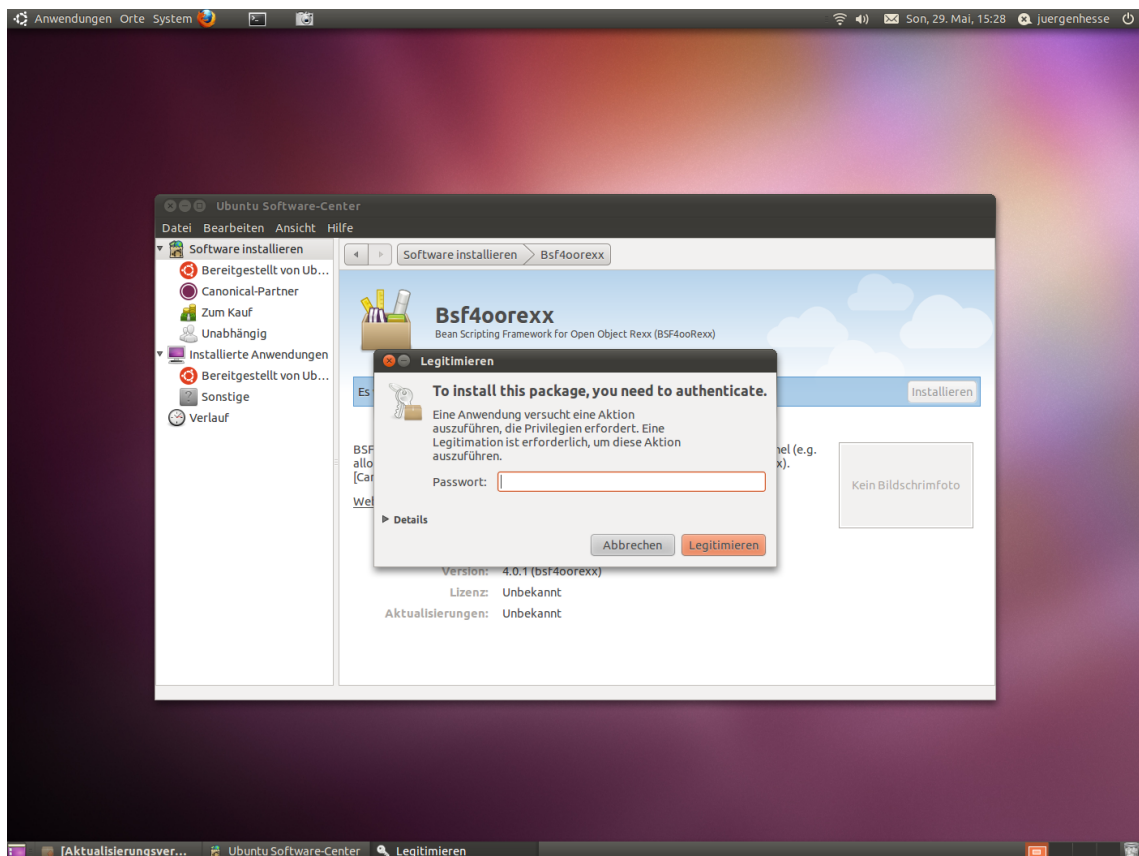


Figure 16: Authentication for the installation.

When the user has successfully been authenticated, the installation process starts, the required files are copied and the corresponding script are executed. Until this process is finished, the user is shown a nice progress bar, as depicted in figure 17.

3 DEB Package for Debian-based Linux Distributions

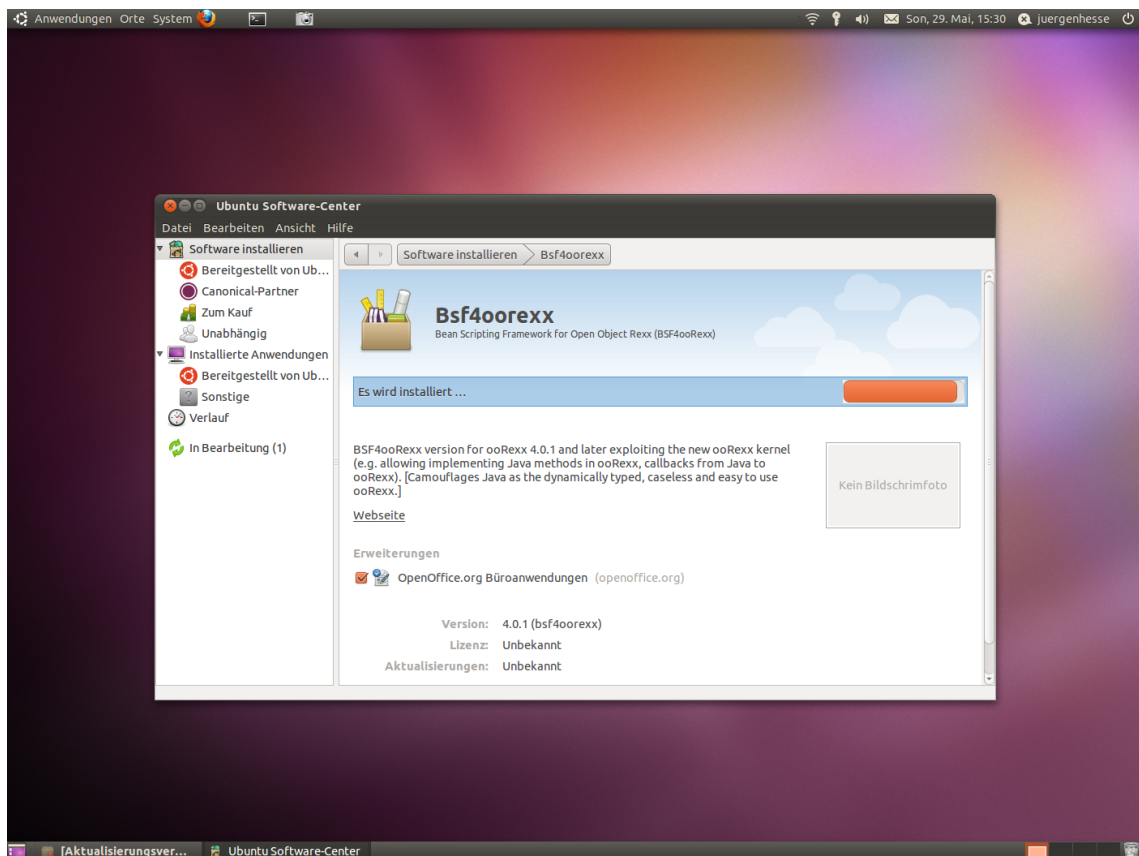


Figure 17: Installation process.

After the installation has been finished, the BSF4ooREXX package is shown in the installed-software-section of the Ubuntu Software Center, as depicted in figure 18.

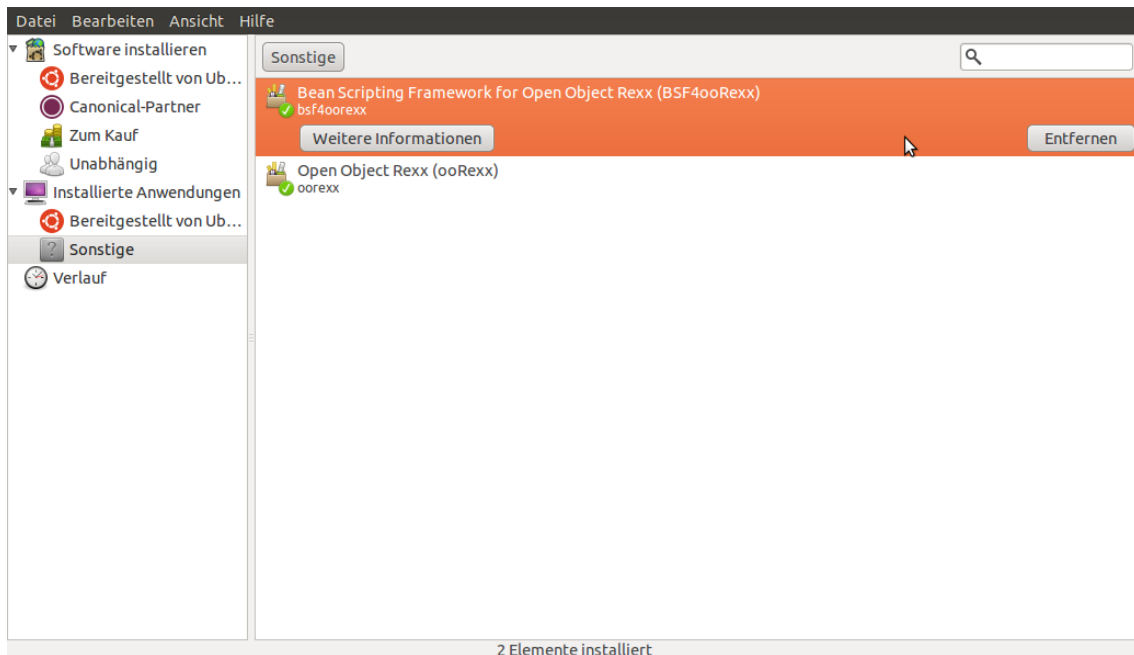


Figure 18: The Installed-Software-Section after installation.

Alternatively, the package can also be installed from the command line by invoking the command given in listing 23.

```
1 sudo dpkg -i bsf4oorexx-4.0.1-ubuntu1010.all.deb
```

Listing 23: Installing the package from the command line.

3.3.2 Reinstall

If OpenOffice was not installed before installation, its support can be enabled afterwards by reinstalling the package. Like above, there are two ways to carry out a reinstallation. The first possibility is to start the process by choosing the corresponding entry from the BSF4ooRexx Menu, as depicted in figure 19.

3 DEB Package for Debian-based Linux Distributions

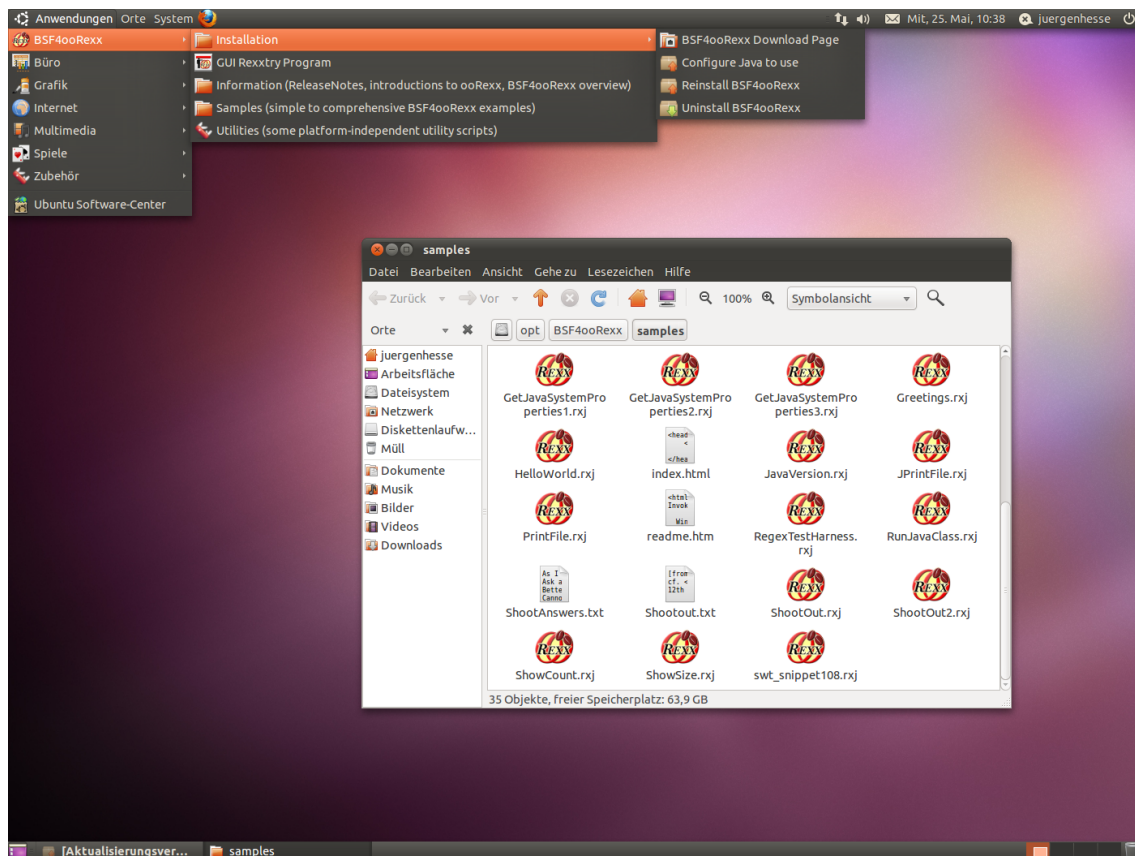


Figure 19: Reinstalling BSF4ooRexx from the menu.

After the reinstallation has successfully been carried out, the user gets a nice message. Alternatively, the package can be reinstalled by double-clicking the Debian package file again. This will, just like in case of the initial installation, invoke the Ubuntu Software Center. The program will remember, that the package has already been installed and will show a reinstall- instead of an install button, as shown in figure 20.

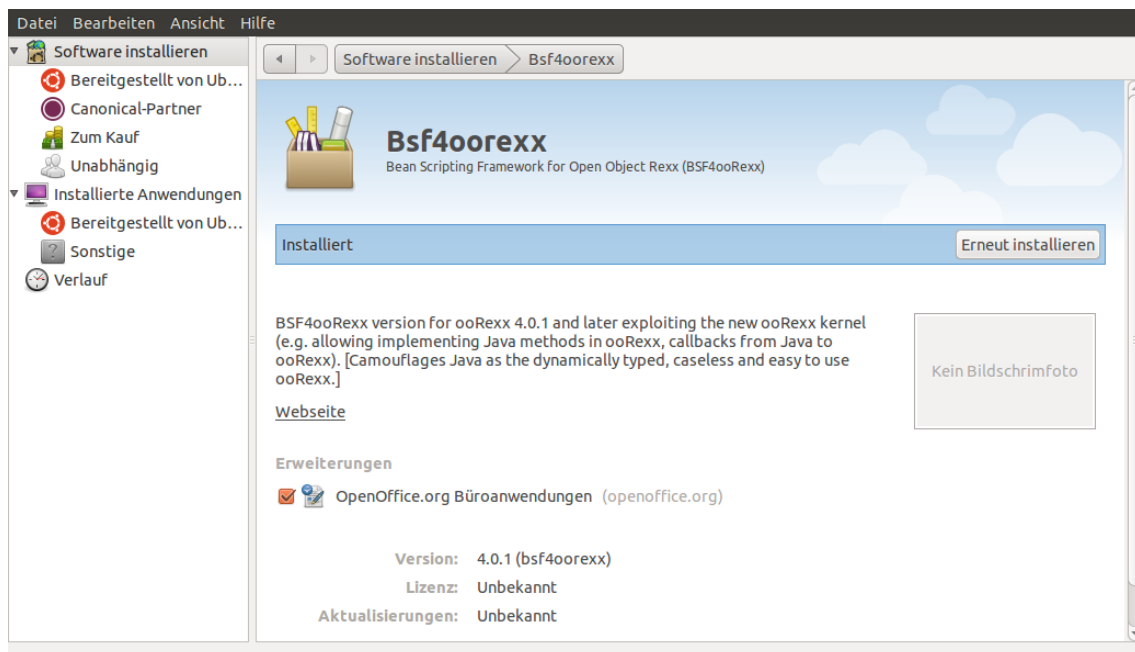


Figure 20: Reinstalling BSF4ooREXX using Ubuntu Software Center.

After clicking this button. The package is freshly installed. During reinstallation, the user is shown a progress bar that looks like that shown during installation (shown in figure 17).

3.3.3 Uninstall

If the user wants to deinstall the package he or she has to open the Ubuntu Software Center. In the installed-software-section the BSF4ooREXX package appears. If a large number of other packages has been installed, the user can use the search field on the top left of the window to search for the package. The uninstall button appears right beside the package name, as shown in figure 21.

3 DEB Package for Debian-based Linux Distributions

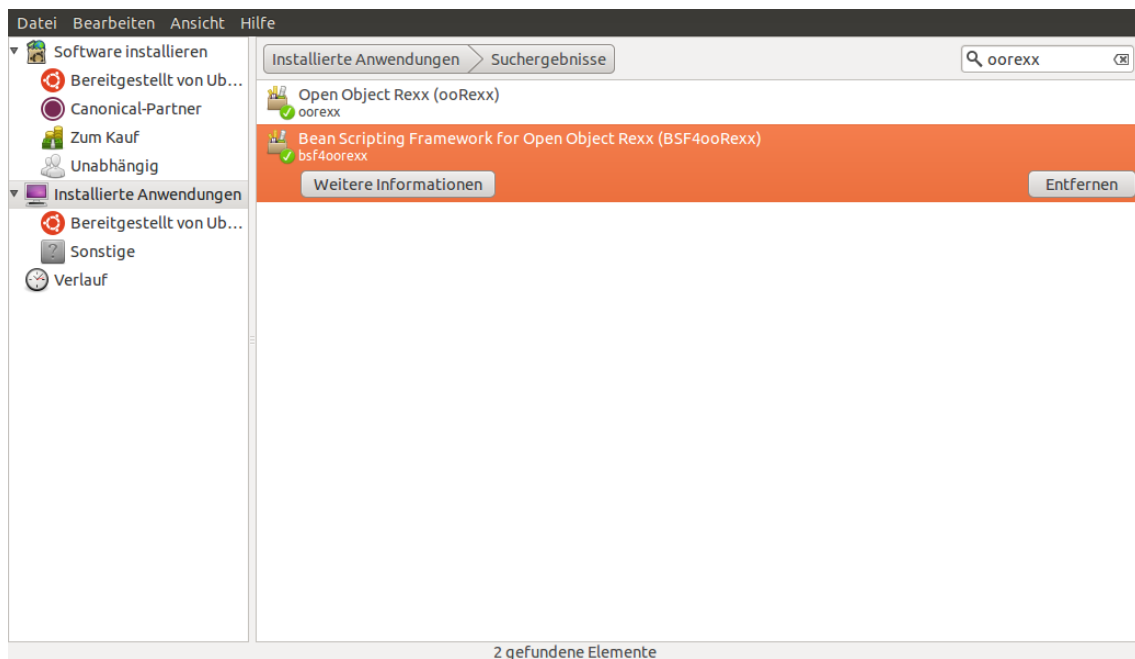


Figure 21: Uninstalling the package.

When the button has been clicked, the user must authenticate, just like before installation. After that the package is removed and all changes made during installation are reverted. During deinstallation, the user sees a nice progress bar, as depicted in figure 22.

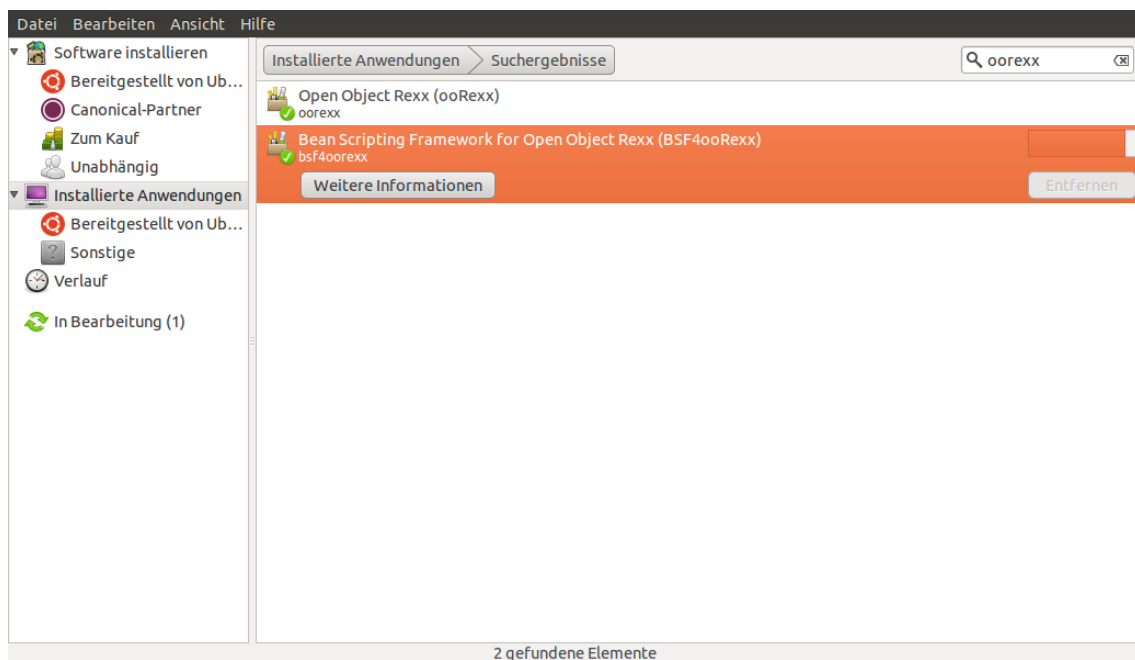


Figure 22: Deinstallation progress.

After the package has successfully been removed, it disappears from the installed-packages

list, as shown in figure 23.

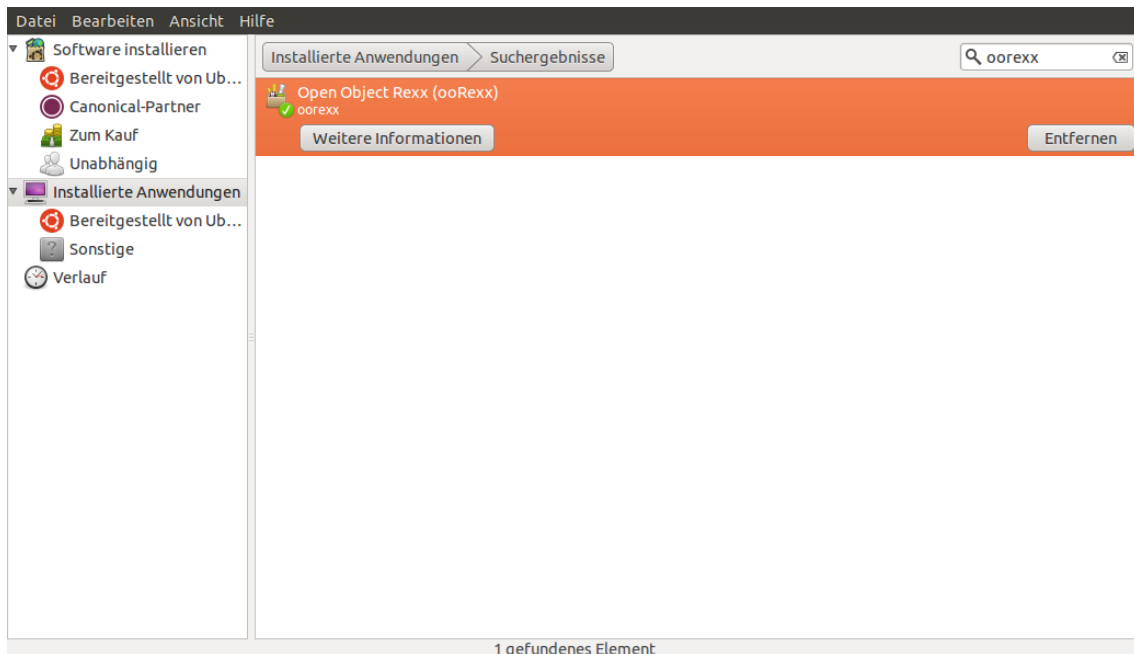


Figure 23: Deinstallation finished.

Alternatively, the package can be removed using the command line, by invoking the commands given in listing 24.

```
1 sudo dpkg -r bsf4ooress
```

Listing 24: Uninstalling the package from the command line.

The effects are the same as they are when using the graphical uninstall mentioned above.

4 RPM Package for Red Hat-based Linux Distributions

For the creation of the installer package for Red Hat-based Linux distributions, we used the RPM Package Management System, in short just RPM, which comes with every standard installation of a Red Hat-based linux distribution.

Chapter 4.1 will take a closer look on the features of RPM, followed by chapter 4.2, which shows how a package will be created. Last but not least, chapter 4.3 will show the package in action.

4.1 The RPM Package Management System

The RPM Package Manager (RPM) is a ... command line driven package management system capable of installing, uninstalling, ... and updating computer software packages. Each software package consists of files along with information about the package like its version, a description, and the like [18].

The basic functionality of RPM is very similar to the features of the Debian package management system, described in chapter 3. RPM uses a bunch of source files to create a package, based on the information defined in a control- or, what RPM calls it, package specification (in short “spec”) file. This file holds information like the package’s base name (i.e. the name without any version information), the version, a description, the requirements for installation and so on. The source-, specification- and resulting RPM-files are organized in a specific directory structure which can be built automatically using a helper program [19]. This step is described in more detail later in chapter 4.2.2.

Nevertheless, compared to the Debian system, RPM is more flexible regarding the features of its spec file. In contrast to a Debian package, a RPM package is normally freshly compiled from its sources. Therefore, the package build process consists of several steps, or as RPM calls it, stages, that are executed one after another. Every stage is designed to read files from one directory, to carry out some operations on these files and to write them back to the same or another directory. Therefore, the system uses some predefined variables, which all start with a percent sign (%), to address these stages and directories. The available stages and their functions are described in chapter 4.2.3 in further detail. The following chapter will lead through the creation of such a RPM package.

4.2 Creating the RPM Package for Red Hat-based Linux Distributions

To create the desired RPM package, a number of tasks has to be carried out. This includes

1. installing the required programs, which is described in chapter 4.2.1,
2. creating the directory structure for building RPM packages, as described in chapter 4.2.2,
3. creating the specifications file, that holds the packages meta data (e.g. name, version, installation prerequisites, etc.) and defines the steps of its build process (as shown in chapter 4.2.3), and finally
4. building the package, as shown in chapter 4.2.4.

4.2.1 Installing the required programs

In contrast to the preconditions for the Debian-based package, the RPM package needs (apart from the Vim editor) some additional programs to be installed in order to gain the ability to create a new package [20]. The required components can be installed by using the commands given in listing 25 on the command line.

```
1 yum install vim
2 yum install @development-tools
3 yum install rpm-build rpmdevtools rpmlint
```

Listing 25: Installing the required utilities.

It has to be mentioned, that some Red Hat-based distributions (e.g. Fedora 14 etc.) do not add the default user to the `sudoer`-file. This means that, in contrast to other systems like Ubuntu Linux, the default user is not able to execute commands in the name of a superuser by using the `sudo` command. There are two possible solutions for this issue. The first is, to add the corresponding entry to the `sudoer`-file according to the system's definitions. The

second is the “`su -`” command to gain superuser (root) privileges. The latter one is more risky and should only be used if the user knows what he or she is doing. Nevertheless, this is the only situation (apart from the installation of the final package) where we will need to have root privileges.

As mentioned before, Vim is a great editor and will be used to edit script files etc. The term `@development-tools` references a package of development tools, obviously, that allow, for example, to build the `rpm` package by using a Makefile. The programs `rpm-build`, `rpmdevtools`, and `rpmlint` are utilities that allow to create a basic package structure and to build the final package.

4.2.2 Creating the required directory structure

After installing the required utilities, the next step is to create the basic structure of the package [19, 20]. This is done by using the command given in listing 26.

```
1 rpmdev-setuptree
```

Listing 26: Setup of the basic package structure.

The command is executed with the privileges of a standard user and creates a directory called `rpmbuild` in the user’s home directory. The `rpmbuild` directory is the starting point for all RPM-packages that will be built on this system by this user. According to the official documentation [19]: *“The “rpmdev-setuptree” program will create a `~/rpmbuild` directory. Underneath “rpmbuild” are a set of subdirectories (such `SPECS` and `BUILD`), which you will use for creating your packages.”*

The resulting directory structure is shown in figure 24.

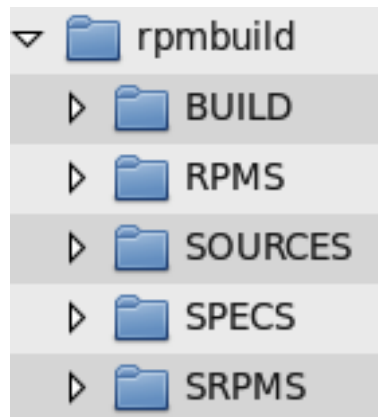


Figure 24: The structure of the rpmbuild directory.

These directories will be addressed from within the spec file (which will be created in chapter 4.2.3) during the package's build process by using predefined variables, sometimes referred to as macros. These variables, or macros, and their target directories' purposes are described in table 1.

Macro	Points To	Purpose
<code>%_specdir</code>	<code>~/rpmbuild/SPECS</code>	Contains the RPM specification (spec) files.
<code>%_sourcedir</code>	<code>~/rpmbuild/SOURCES</code>	Holds pristine source packages, e.g. a packed <code>.zip</code> file.
<code>%_builddir</code>	<code>~/rpmbuild/BUILD</code>	Source files are unpacked (and compiled) in a subdirectory of this folder.
<code>%_buildrootdir</code>	<code>~/rpmbuild/BUILDROOT</code>	Files are installed here during the <code>%install</code> stage.
<code>%_rpmdir</code>	<code>~/rpmbuild/RPMS</code>	Binary RPMs are stored here after the build process has finished.
<code>%_srcrpmdir</code>	<code>~/rpmbuild/SRPMS</code>	Source RPMs are stored here.

Table 1: Predefined variables (macros) for accessing the RPM build directory structure, as described in [19].

The `SOURCES` folder, as described above, will only contain the source files of the package, in our case the `BSF4ooRexx` distribution as a `.zip` file. During the stages of the build process it will be unpacked and moved to the computer's filesystem. All necessary setting to do so, are defined in the specs file, which is described in the following chapter.

4.2.3 Creating the Specifications (spec) File

Basically, the spec file is a simple text file, which is located in the `SPECS` directory of the `rpmbuild` folder. As already mentioned, it defines the packages meta data and the actions that will be taken during the build process. The user does not have to write the complete file on his or her own from the scratch. It is possible to create a basic spec file using the command shown in listing 27 [20].

```
1 cd ~/rpmbuild/SPECS
2 rpmddev-newspec bsf4oorexx
```

Listing 27: Creating a basic spec file.

The resulting specifications file for the BSF4ooRexx package is called `bsf4oorexx.spec` and is stored in the `SPECS` directory. After creation it is mostly empty and has to be filled according to the requirements. The content of the completely filled spec file is shown in listing 28.

```
1 Name:                bsf4oorexx
2 Version:             4.0.6
3 Release:             20110608
4 Summary:             Bean Scripting Framework for Open Object Rexx (BSF4ooRexx
   ↪ )
5
6 Group:               Development/Tools
7 License:             Apache Software License 2.0
8 URL:                 http://sourceforge.net/projects/bsf4oorexx/
9 #Source0:
10 BuildRoot:           %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u
   ↪ } -n)
11
12 Autoreq:             0
13 BuildRequires:       unzip
14 Requires:            oorexx >= 4.0.1
15 Requires:            java-1.6.0-openjdk >= 1.6.0
16
17 %description
18 BSF4Rexx version for ooRexx 4.0.1 and later, exploiting the new ooRexx
   ↪ kernel (e.g. allowing implementation of Java methods in ooRexx,
   ↪ callbacks from Java to ooRexx). [Camouflages Java as the
   ↪ dynamically typed, caseless and easy to use ooRexx.]
```

```

19 |
20 | %prep
21 | unzip -d % {_builddir}/BSF4ooRexxInstall % {_sourcedir}/BSF4ooRexx_install
22 |
23 | %build
24 |
25 | %install
26 | rm -rf % {buildroot}
27 | mkdir -p % {buildroot}/tmp/
28 | cp -r BSF4ooRexxInstall % {buildroot}/tmp/
29 |
30 | %post
31 | rm -rf /opt/BSF4ooRexx
32 | cp -R % {_sourcedir}/BSF4ooRexxInstall /tmp/
33 | #cd /tmp/BSF4ooRexxInstall/bsf4oorexx/install/
34 | rexx /tmp/BSF4ooRexxInstall/bsf4oorexx/install/setupAllAndRun.rex install
    | ↪ /@q:
35 |
36 | %preun
37 | #cd /opt/BSF4ooRexx
38 | rexx /opt/BSF4ooRexx/install/setupAllAndRun.rex uninstall /@q:
39 |
40 | %clean
41 |
42 | %files
43 | %defattr(-,root,root,-)
44 | %doc
45 | /tmp/*
46 |
47 | %changelog

```

Listing 28: The bsf4oorexx.spec file.

Most of the file's settings are quite self-explanatory. `Name` and `Version`, of course, define the resulting package's name and version. The version for BSF4ooRexx is defined in the file `BSF.CLS` and is 4.0.6 at the time of writing this document. `Release`, in this case, indicates the date of the distribution's current release. Here it was June, 8th 2011. `Summary` defines a short summary of the packages contents. The next setting, named `Group`, is very important for the package management system. It defines to which group of software this package belongs. We decided to use `Development/Tools`, because BSF4ooRexx can be seen as extension to ooRexx. `License` and `URL` define, under which license the package and its content can be used and where it can be found on the internet. A very useful setting is `BuildRoot`. It defines the name used for the build-subdirectory in the `BUILDROOT`

folder. Using placeholder variables for name (`%{name}`), version (`%{version}`) and release (`%{release}`) it allows to build multiple versions of the package, without overwriting already existing older releases or versions.

The next block of settings has to do with requirements. `Autoreq` defines, if the package management system should automatically try to determine required additional software during the package's installation. This can be a very useful feature, but in our case, we exactly know which requirements must be met and, therefore, this feature has been turned off, as the 0 (zero) indicates. The setting `BuildRequires` allows to define packages that must be installed, in order for the build to succeed. The programs (packages) listed here, are used during the stages of the build process e.g. for compiling the source files. We don't want to compile any files. The only thing we do is to unpack the BSF4ooRexx distribution file. Therefore, to only package listed here is `unzip`. In contrast to the build process requirements, `Requires` lists packages that have to be present, to execute the files within this package. Because BSF4ooRexx needs Java and ooRexx to work properly, both have been added here with their required version. As one can see, the `Requires` keyword can be used multiple time for defining a larger number of required programs.

`%description` is a macro that allows the user to define a longer description for the package. In contrast to the `Summary` tag, it can be used as a place for important information the user should see before the package is installed.

After that, the stages definition starts. The most important stages (and their purpose), that every package uses, are described in table 2. The directory macros used here have already been defined in table 1 in chapter 4.2.2.

Stage	Reads	Writes	Action
%prep	%_sourcedir	%_builddir	The preparation stage reads the sources from %_sourcedir and unpacks them to a subdirectory of the build directory (%_builddir).
%build	%_builddir	%_builddir	During the build stage, the unpacked sources are compiled within the build directory.
%check	%_builddir	%_builddir	This stage can be used to check, if the compiled programs work properly.
%install	%_builddir	%_buildrootdir	This is the most interesting stage for us. It reads the contents of the build directory and writes the files that will be installed to the users filesystem to the buildroot directory.

Table 2: Stages and their functions, as described in [19].

As one can see from this definition, the system primarily aims at creating packages directly from the source code. Normally, the source code is unpacked, configured, compiled, tested and installed inside the buildroot directory. Based upon that the package is build, only containing the required files. In our case it is not really necessary to compile any source code. Therefore, the %build and %check stages, for example, are not used. %check is not even listed in listing 28.

During the preparation stage, as already mentioned, the BSF4ooRexx distribution file is unpacked to the build directory using the `unzip` command. Because we don't need to compile any files, the %build stage does not contain any commands. Reaching the %install stage, the buildroot directory is cleaned and freshly populated with a `tmp` directory and the unpacked BSF4ooRexx files. This is necessary, because the contents of the BSF4ooRexx distribution will be placed in the systems `/tmp` directory during installation.

The last two important settings are %post and %preun. The first one, %post, allows the definition of commands that will be executed, after the package has been installed and the files have been moved to the filesystem. In our case, an existing (old) BSF4ooRexx directory under `/opt` will here be removed, the BSF4ooRexx install folder contained in the package

is moved to `/tmp` and the according setup script is started. After this step is complete, BSF4ooRexx is installed and fully functional.

The second setting, `%preun`, is used, when before the package is uninstalled. It runs the uninstall script that comes with BSF4ooRexx, which removes all settings and files that have been made or created during installation.

After these settings have been configured successfully, the package can finally be built.

4.2.4 Building the Final RPM Package

To finally build the RPM package, the commands given in listing 29 have to be executed from the command line.

```
1 cd ~/rpmbuild/SPECS
2 rpmbuild -ba bsf4oorexx.spec
```

Listing 29: Building the RPM package.

This will cause `rpmbuild` to read the spec file and to go through all stages in order to build the final package. The `-ba` option tells `rpmbuild` to build all packages, also the source package which is stored in `~/rpmbuild/SRPMS`.

When the build process is finished, the resulting package is stored in `~/rpmbuild/RPMS`. From there it can be distributed and installed. The according use cases are covered in chapter 4.3.

4.3 Use Cases

The install, reinstall and uninstall features of the BSF4ooRexx RPM package are explained in the following chapters.

4.3.1 Install

The installation of a RPM package can either be carried out graphically, e.g. by using the Add/Remove Software option from Linux' Administration menu or manually by invoking the corresponding commands from the command line. To install the package graphically the user must simply double-click on the file created in the steps above. On Fedora 14, a message box will appear, allowing the user to install the file. This case is shown in figure 25.

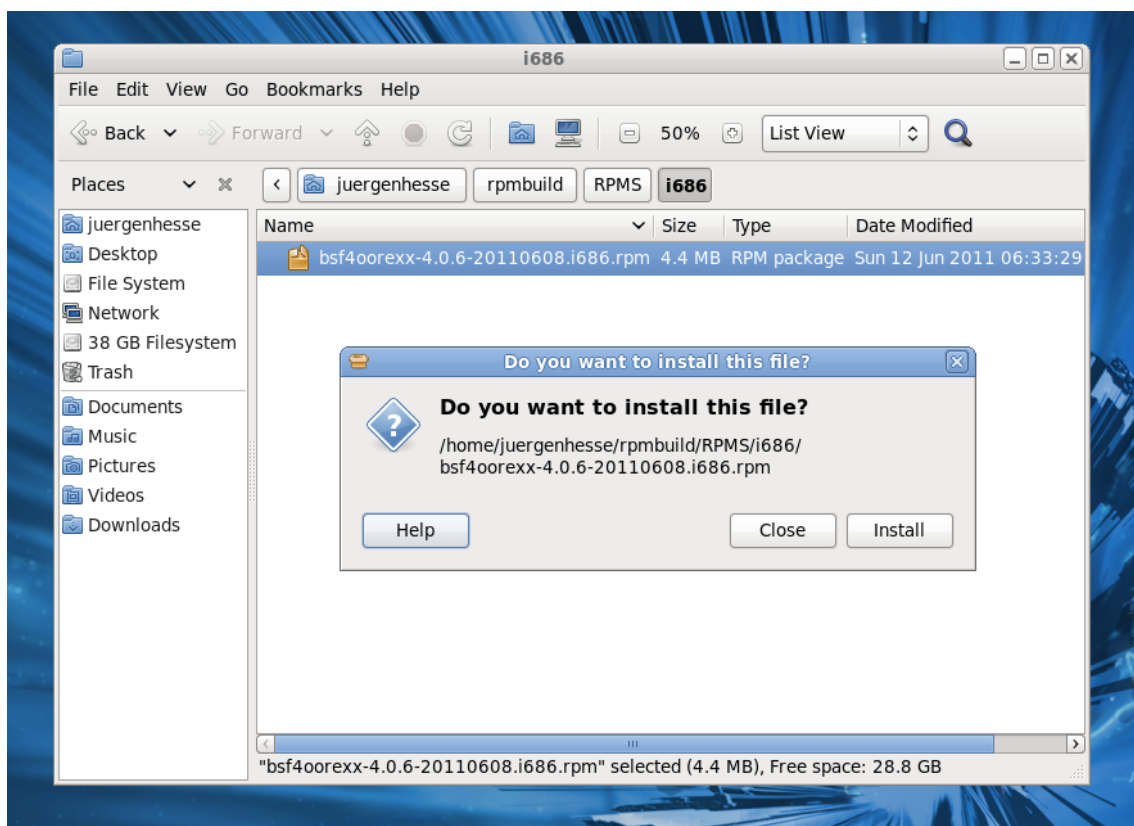


Figure 25: Installing the RPM package by double-clicking.

After clicking on the "Install" button, the user has to proof, that he or the has sufficient privileges to install new software and that the package really should be installed, as depicted in figure 26.

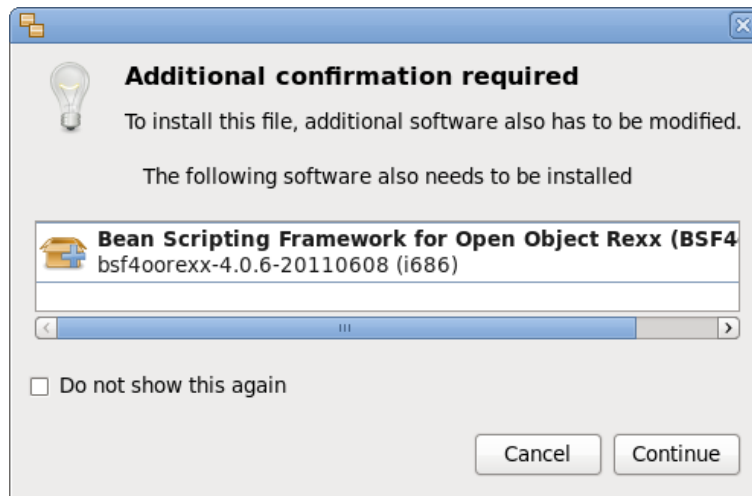


Figure 26: Authentication for the installation.

If the authentication and the confirmation have succeeded, the installation starts. The user sees a nice progress bar (shown in figure 27), indicating the state of the installation.

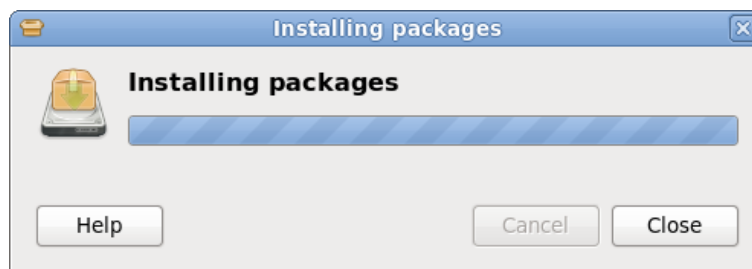


Figure 27: Installation progress.

When the installation has finished, the BSF4ooRexx package is shown in the Application's menu and in the installed-software-section of the software management GUI. This case is shown in figure 28.

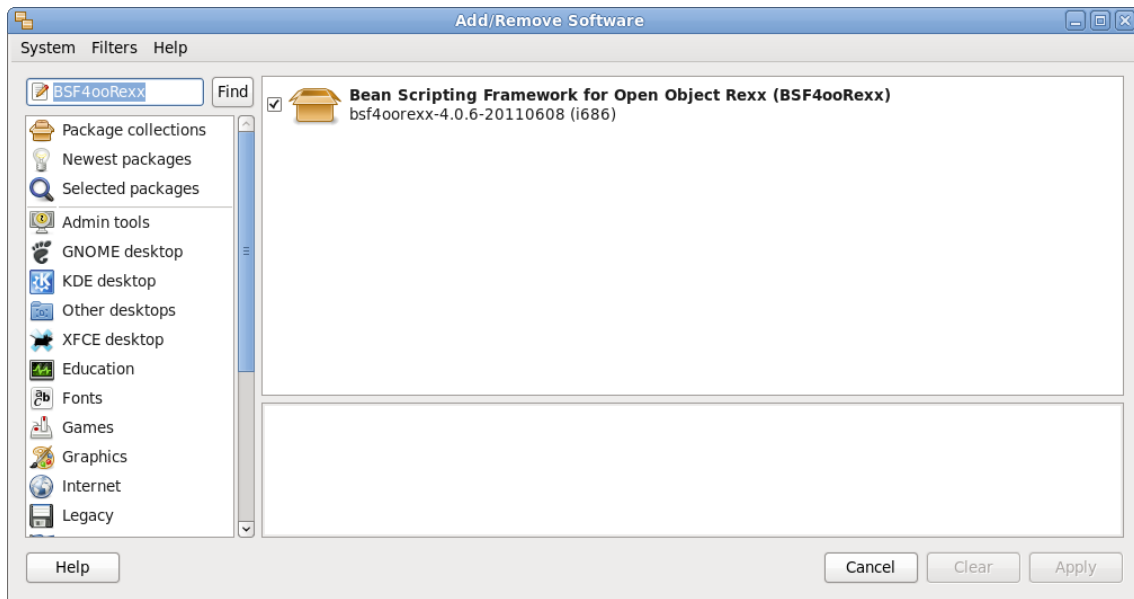


Figure 28: The Installed-Software-Section after installation.

Alternatively, the package can also be installed from the command line by invoking the command given in listing 30 as superuser.

```
1 rpm -i /home/user/rpmbuild/RPMS/i686/bsf4ooress-4.0.6-20110608.i686.rpm
```

Listing 30: Installing the package from the command line.

4.3.2 Reinstall

If OpenOffice was not installed before installation, its support can be enabled afterwards by reinstalling the package. Unfortunately, the graphical RPM system does not support reinstallation of standalone RPM packages. Therefore, the easiest way is to start the process by choosing the corresponding entry from the BSF4ooRexx Menu, as depicted in figure 29.

4 RPM Package for Red Hat-based Linux Distributions

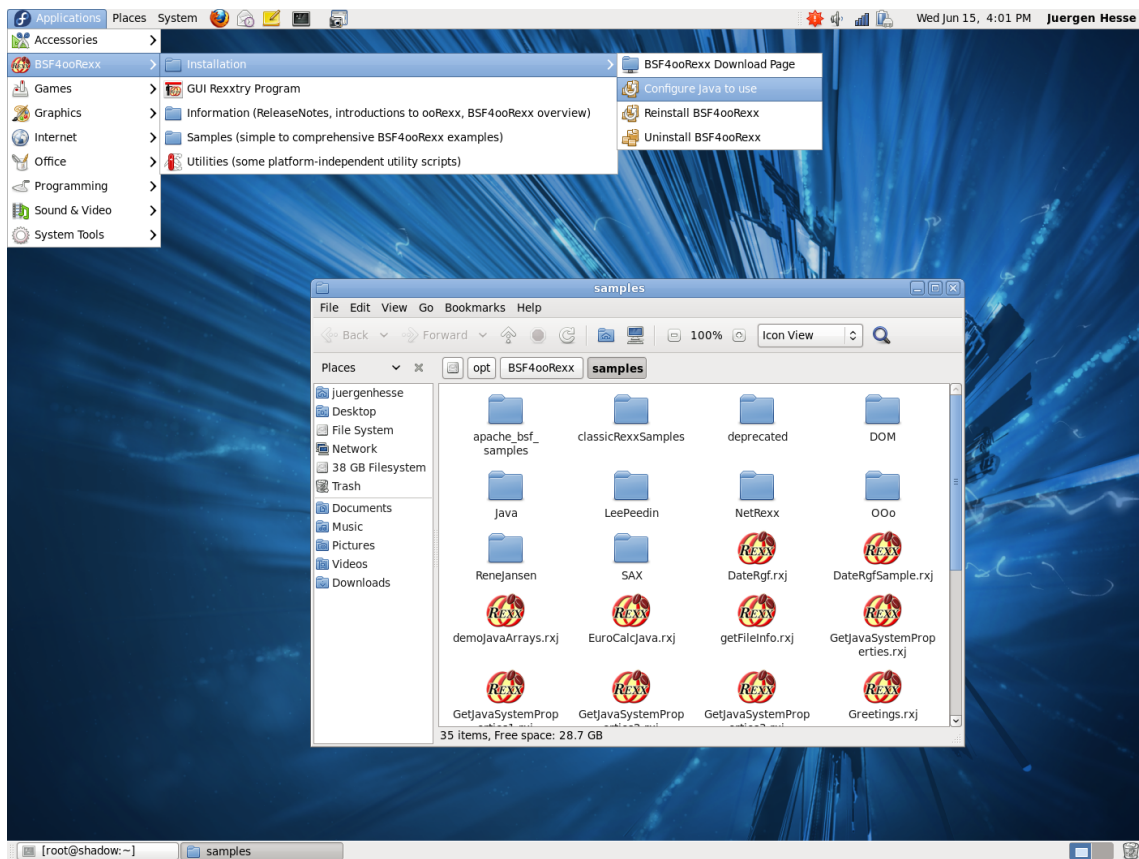


Figure 29: Reinstalling BSF4ooRexx from the menu.

After the reinstallation has successfully been carried out, the user gets a nice message.

4.3.3 Uninstall

If the user wants to deinstall the package he or she has to open the system's software management GUI. In the installed-software-section the BSF4ooRexx package appears. If a large number of other packages has been installed, the user can use the search field on the top left of the window to search for the package. To uninstall the package, the user has to remove the check in front of the package icon and to click on the "Apply" button, as shown in figure 30.

4 RPM Package for Red Hat-based Linux Distributions

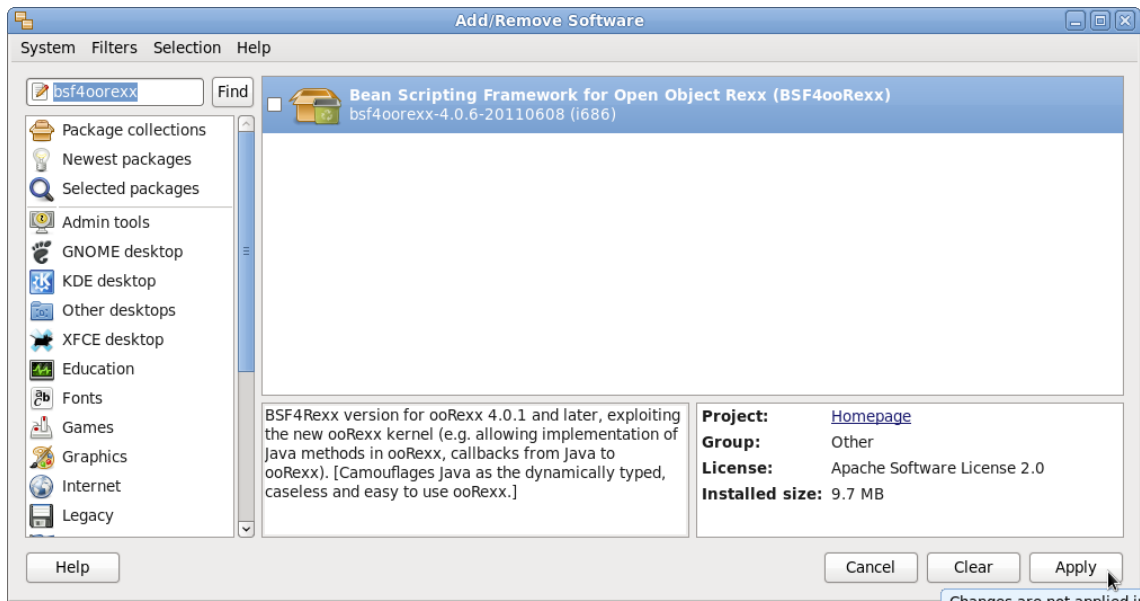


Figure 30: Uninstalling the package.

Before the uninstall process starts, the user must again proof, that he or she has sufficient privileges to remove software. This situation is depicted in figure 31.



Figure 31: Authentication for uninstalling the BSF4ooRexx package.

When the authentication has succeeded, the uninstall process starts. Until it is finished, the user sees a nice progress bar at the bottom left of the software management window, as shown in figure 32.

5 Iceberg Installer for Mac OS X

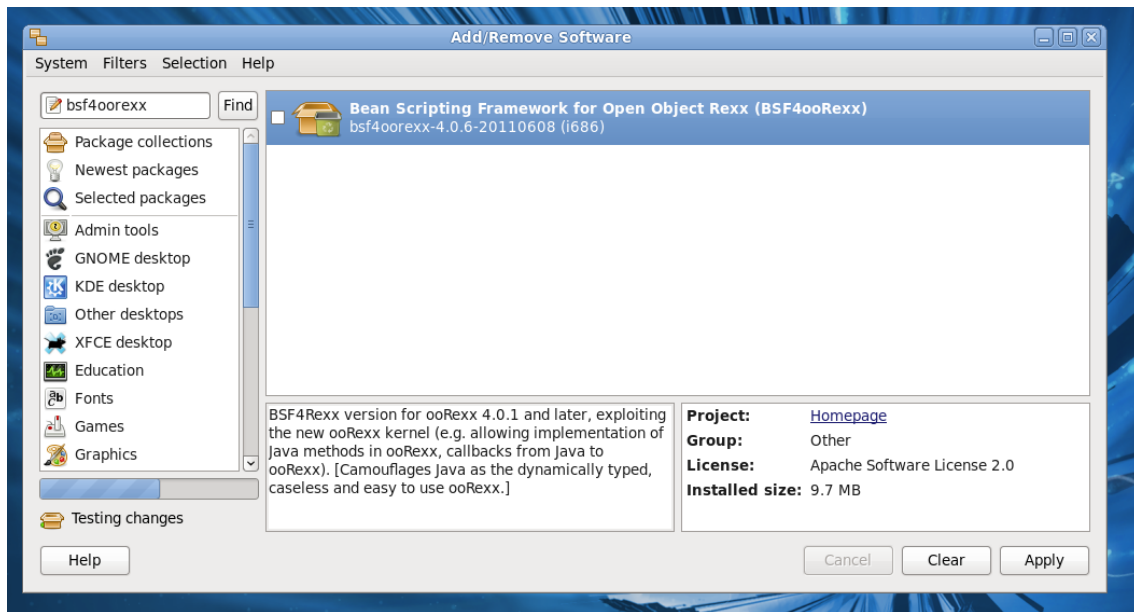


Figure 32: Deinstallation progress.

After the package has successfully been removed, it disappears from the installed-packages list.

Alternatively, the package can be removed using the command line, by invoking the command given in listing 31 as superuser.

```
1 rpm -e bsf4ooress
```

Listing 31: Uninstalling the package from the command line.

The effects are the same as they are when using the graphical uninstall mentioned above.

5 Iceberg Installer for Mac OS X

For the creation of the installer package for Mac OS X, we used a program called Iceberg [21].

Chapter 5.1 will describe necessary preliminary works, chapter 5.2 will take a closer look

on the features of Iceberg, followed by chapter 5.3, which shows how an installer will be created. Last but not least, chapter 5.4 will show the installer in action.

5.1 Preliminary Works

This chapter describes the necessary preliminary works, like gathering the source folders for BSF4ooRexx and ooRexx, as well as creating the install and uninstall scripts.

5.1.1 The Source Folder's Structure

First of all, it is necessary to create a sources folder, which contains all required files for building the installer. Its structure is shown in figure 33.

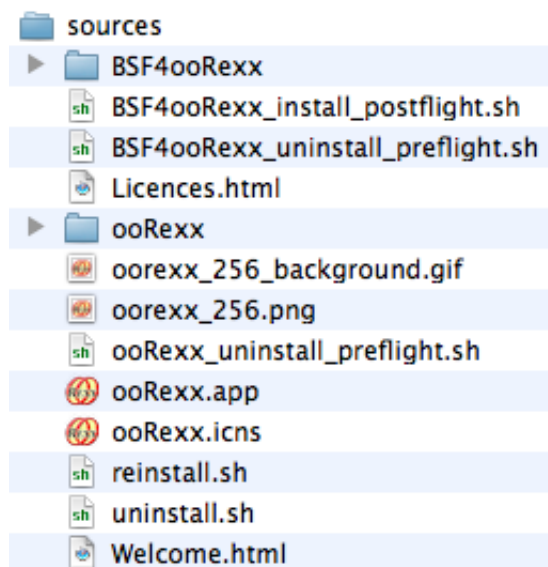


Figure 33: The sources folder.

The BSF4ooRexx folder contains all files and folders that are necessary. Its structure, depicted in figure 34, is based on the BSF4ooRexx framework defined in [1].

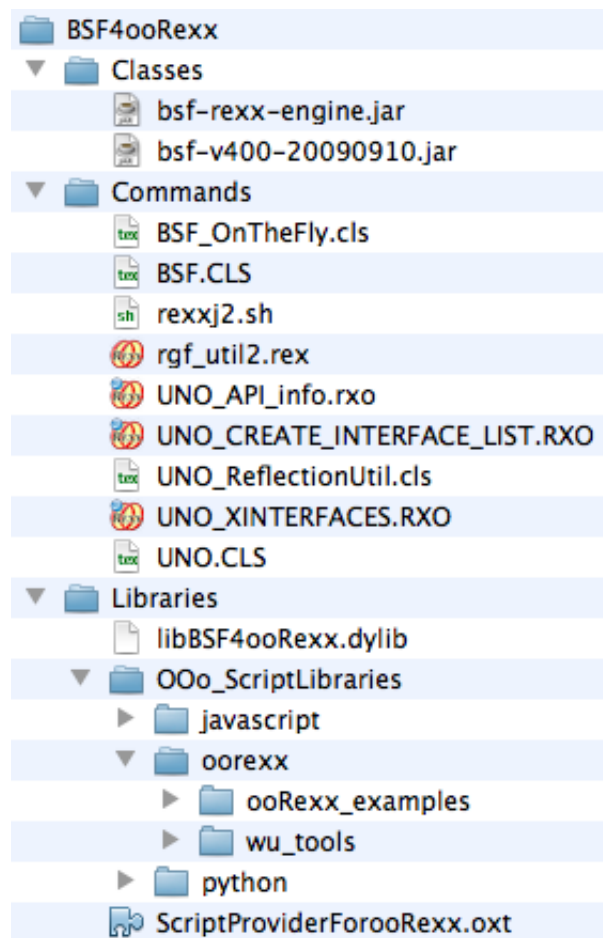


Figure 34: The BSF4ooRexx folder.

The second folder is the source folder for ooRexx. Because there was no official ooRexx package available at the time of writing this thesis, we were kindly allowed to use the unofficial ooRexx 4.1.1 build by the ooRexx developer Bruce Skelly. Its contents is shown in figure 35.

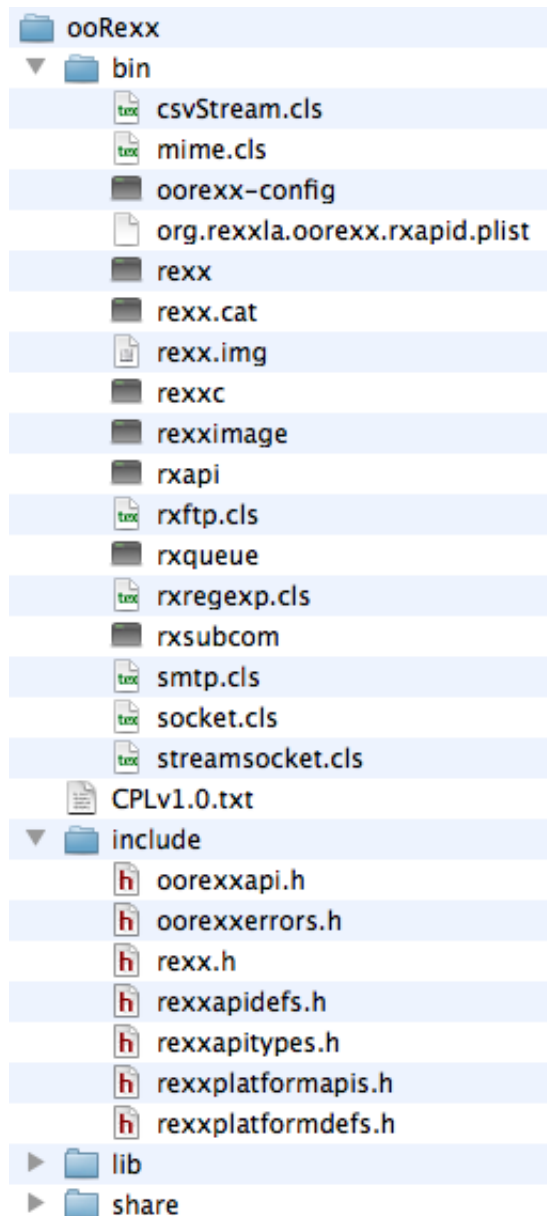


Figure 35: The ooRexx folder.

Like the BSF4ooRexx folder, the `ooRexx.app` is also based on the application bundle developed in [1]. Its name was changed to ooRexx because the bundle now contains ooRexx and BSF4ooRexx documentations and the samples. Furthermore the menu bar was modified to support both of them. Its complete and updated source code can be found in chapter 6.2.14 in the Appendix. The structure of the ooRexx folder is depicted in figure 36.

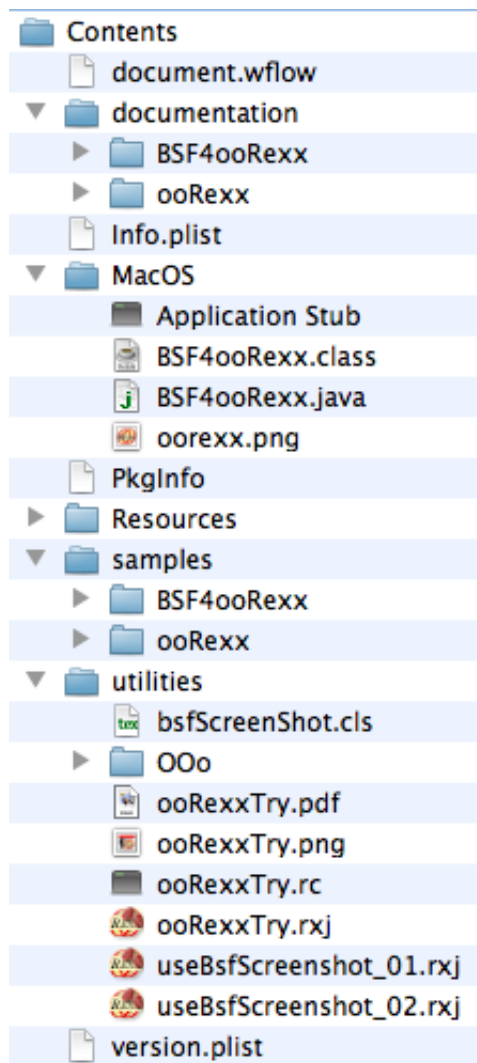


Figure 36: The contents of ooRexx.app.

5.1.2 The Install Script

The install script, which is shown in full length in chapter 6.2.15 in the Appendix, creates symbolic links to ooRexx and BSF4ooRexx in the `/usr/bin` and `/usr/lib` directories. Furthermore it links the ooRexx manual pages to `/usr/share/man/man1` and adds the C++ header files to `/usr/include`. After copying all ooRexx-related files, the ooRexx `rxapi` daemon is restarted.

Finally, the BSF4ooRexx support for OpenOffice/LibreOffice is installed by adding the corresponding JAR files to the CLASSPATH environment variable and copying the ooRexx macros

to OpenOffice/LibreOffice's script directory. This step will only be executed, if OpenOffice/LibreOffice is installed. If, not it is omitted.

Last but no least, the `lsregister` command is used to refresh all file association settings. As a result, all ooRexx and BSF4ooRexx script files are shown with their correct file type icons in the Mac OS X finder.

5.1.3 The Uninstall and Reinstall Scripts

The uninstall and reinstall process is primarily handled by four different scripts. All of which can be found in chapter 6.2 in the Appendix.

uninstall.sh: This script is executed if the user presses the uninstall or reinstall item in the ooRexx menu bar. It needs a parameter, indicating which process has to be started. If the parameter is "`reinstall`", the currently present ooRexx and BSF4ooRexx installation will be removed and newly installed, using the script described in chapter 5.1.2. On the other hand, if the parameter is "`uninstall`", the installation will be removed.

ooRexx_uninstall_preflight.sh: This script removes all symbolic links that were created by the installer script in `/usr/bin`, `/usr/lib`, `/usr/include` and `/usr/share/man/man1`. In addition, it unloads the ooRexx `rxapi` daemon, removes it and starts `BSF4ooRexx_uninstall_preflight.sh`.

BSF4ooRexx_uninstall_preflight.sh: Like the previous script, it removes the created symbolic links from the `/usr/bin` and `/usr/lib` directories. Furthermore the ooRexx and BSF4ooRexx directories in `/opt` are removed and the `ooRexx.app` bundle in `/Applications` is deleted. Finally the `CLASSPATH` entries in `/etc/profile` are removed.

If the parameter "`uninstall`" has previously been set, the uninstall process is finished here. Otherwise, the `reinstall.sh` script is invoked.

reinstall.sh: It installs a fresh copy of ooRexx and BSF4ooRexx to the `/opt` directory and `ooRexx.app` to the `/Applications` folder. Afterwards the install script, described in chapter 5.1.2, is executed.

5.2 The Installer

“Iceberg is an Integrated Packaging Environment (IPE) that allows you to create packages or metapackages conforming to the Mac OS X specifications” [21]. It has a graphical user interface for creating and editing installer projects. After installation, it is available in the `/Applications` folder of Mac OS X. Its features will be discussed in further detail in the following chapter.

5.3 Creating the Install Package for Mac OS X with Iceberg

To create a new project, the user has to start Iceberg and select `File → New Project...` from its menu bar. In the appearing assistant, the subitem `Package` below the item `Core Templates` has to be chosen. In the next step the project name and its root directory have to be set. After finishing the assistant, Iceberg creates an empty project and opens it in its main window, as shown in figure 37.

5 Iceberg Installer for Mac OS X

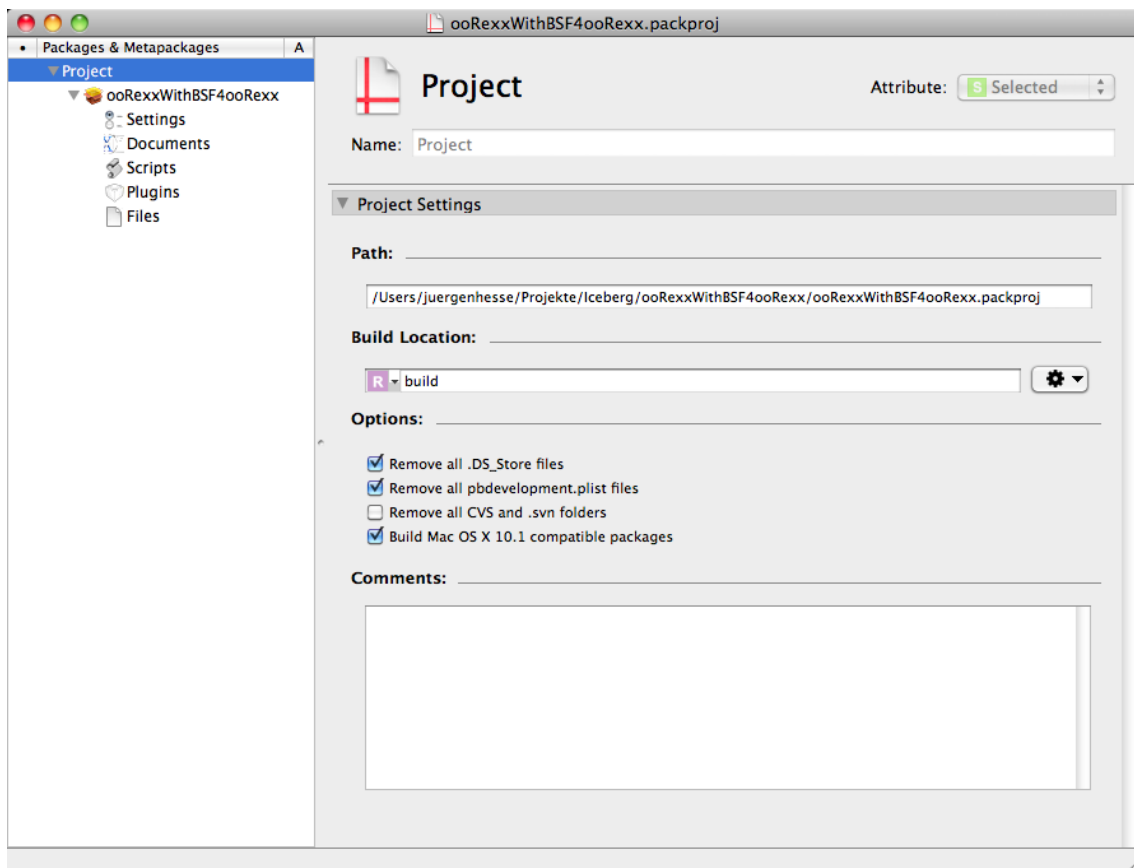


Figure 37: The Iceberg main window.

The left frame contains all open projects. The right frame shows the settings for the currently selected project. These settings are split into the following parts:

- Settings,
- Documents,
- Scripts,
- Plugins and
- Files.

The next chapters will take a closer look at these parts.

5.3.1 Settings

In the `Settings` part, depicted in figure 38, the user can specify general settings such as the package's title, the version and its icon file. The icon must be available in the Apple-specific `.icns` format. The procedure for creating such an icon file is described in chapter 3.3.1 “Creating the BSF4ooRexx Application Bundle” of [1].

Iceberg allows to select between the usage of the absolute or relative path to the icon file. The absolute path is workstation-specific and may be used if the project is developed only on a single computer. The relative path, on the other hand, is based on the project's root directory which has been set in chapter 5.3. It may be used if the project is shared with other developers.

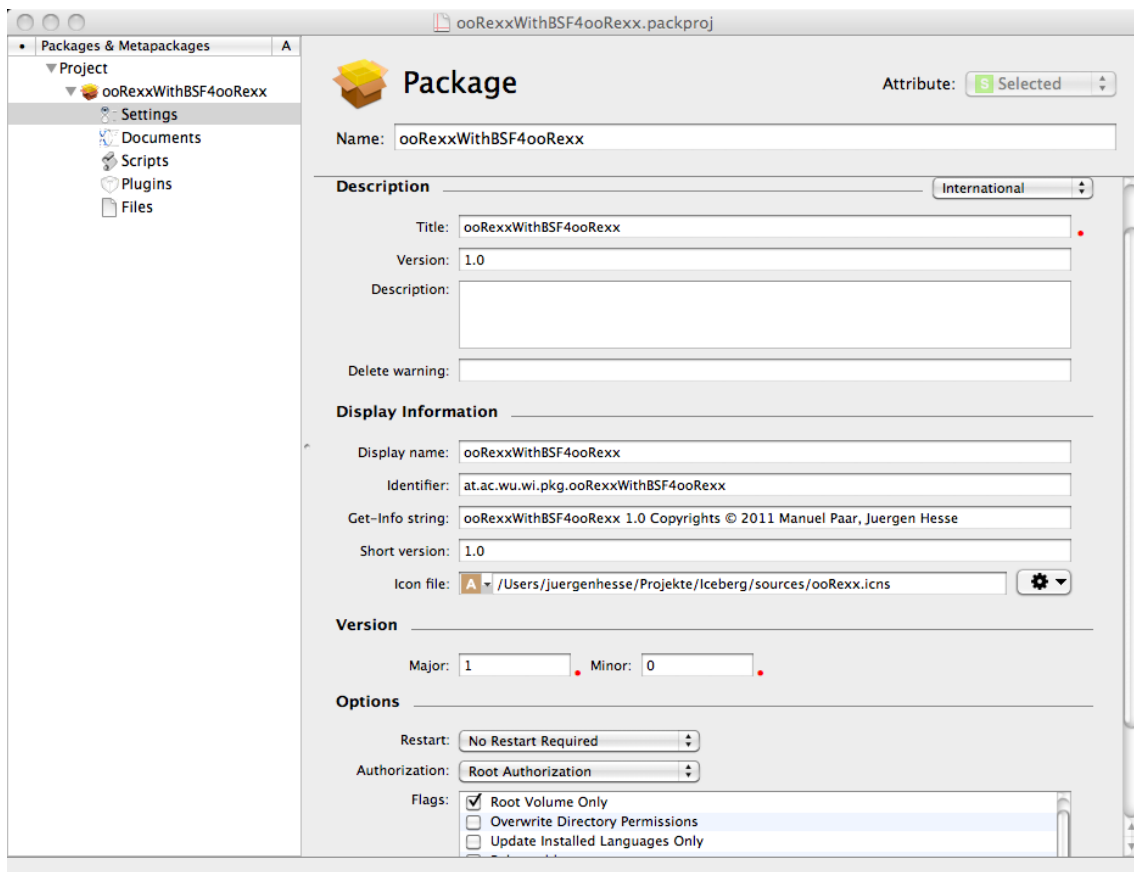


Figure 38: The Iceberg project settings.

A very important part in the `Settings` window is the `Options` section. It allows to define

- if a restart of the system is necessary after installation,
- if the user has to be authenticated as system administrator,
- if the program can be installed only onto the system's boot volume and
- further options regarding the file system.

In our case, we defined that `Root Authorization` is required, that the program can be installed to the `Root Volume Only` and that the installer should `Follow Symbolic Links`.

5.3.2 Documents

In this part, shown in figure 39, the user can specify the background image, the welcome text, the ReadMe file and the licence information which will be shown in the installer. Again, it is possible to choose between the absolute and the relative path for the given resources. The Welcome-, ReadMe- and Licence files can be defined in the `TXT`, `RTF`, `RTFd` and `HTML` format [22].

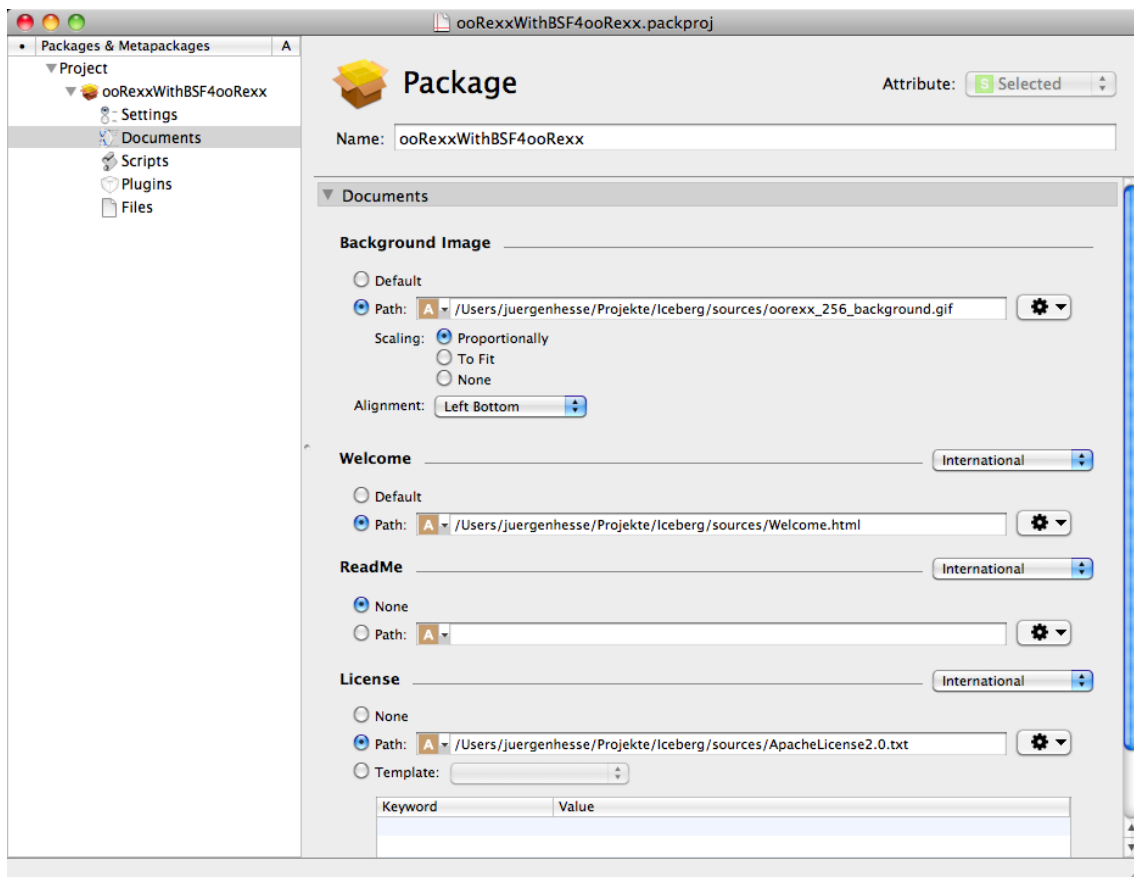


Figure 39: The Iceberg project's document settings.

5.3.3 Scripts

The `Installation Scripts` part of the `Scripts` settings window allows to define script files, that are executed before or after copying the program files to their destination. In our case, it was only necessary to execute a so-called postflight script, which runs after copying the files. This setting is shown in figure 40. The complete source code of the postflight script is shown in the Appendix in chapter 6.2.15.

5 Iceberg Installer for Mac OS X

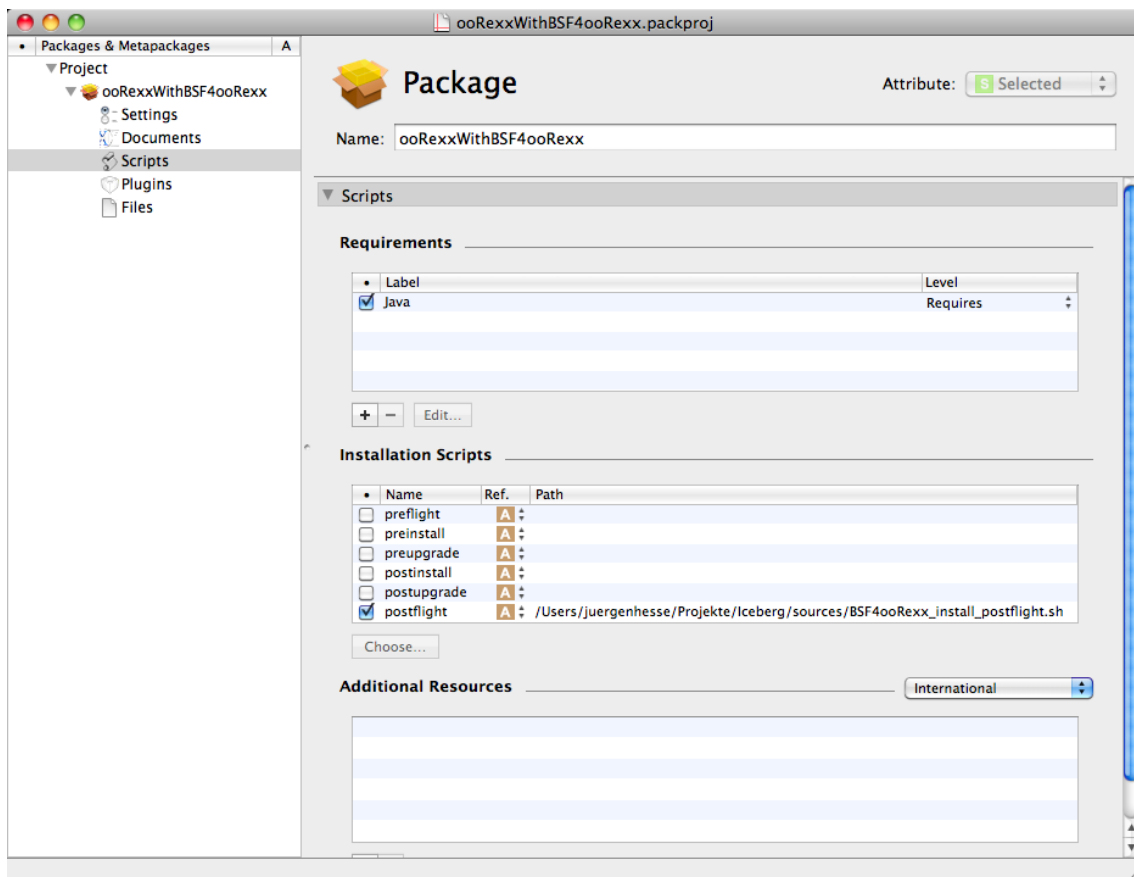


Figure 40: The Iceberg project's script settings.

The `Scripts` settings also allow to define the requirements the system has to fulfill before the program can be installed. In our case, the only requirement was, that Java 1.6 or higher is installed. To check if the correct Java version is present, the settings shown in figure 41 have been made. They check if the Java Bundle located at `/System/Library/Java/JavaVirtualMachines/1.6.0.jdk` has a `plist` value for the key `CFBundleIdentifier` that is equal to `com.apple.javajdk16`. If the requirement is not met, the message defined in the `Alert Dialog` section is shown and the user will not be able to start the installation.

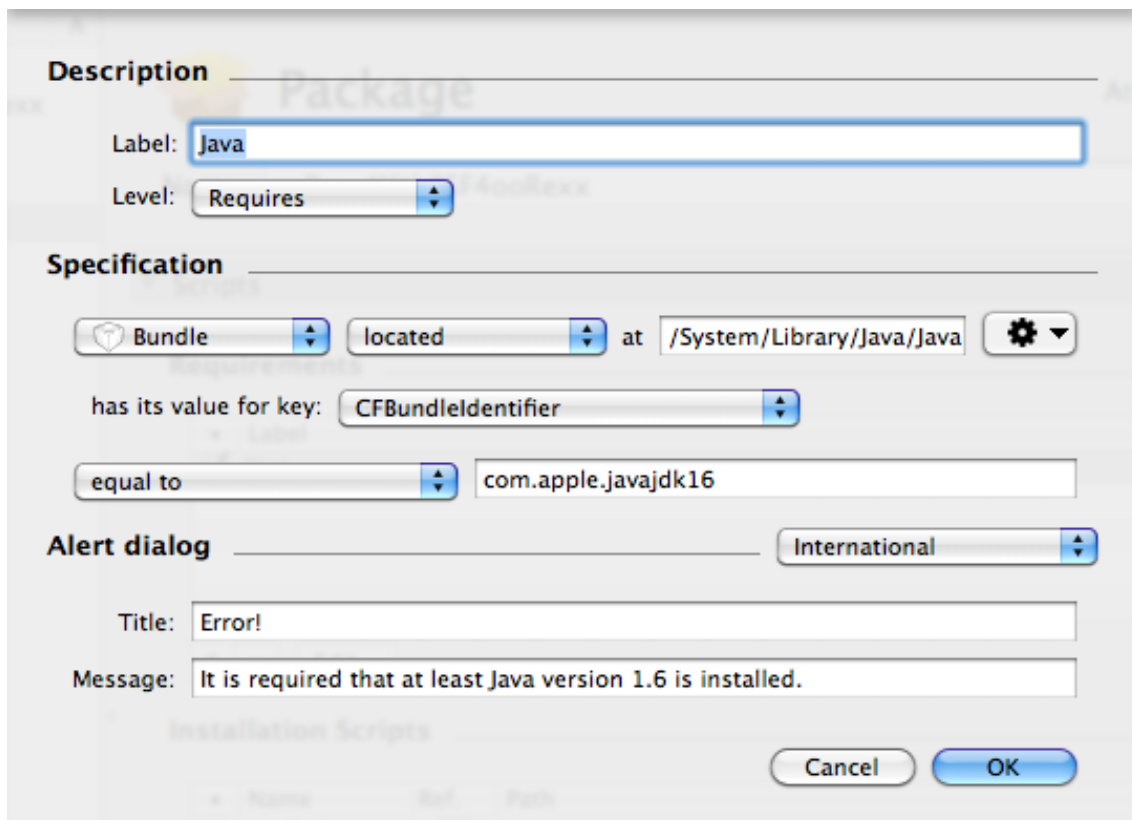


Figure 41: Defining the installer's requirements.

5.3.4 Plugins

The `Plugin` settings, shown in figure 42, allow to add additional panes or steps to the installation process. In our case it was not necessary to add such steps, therefore the default setting were used.

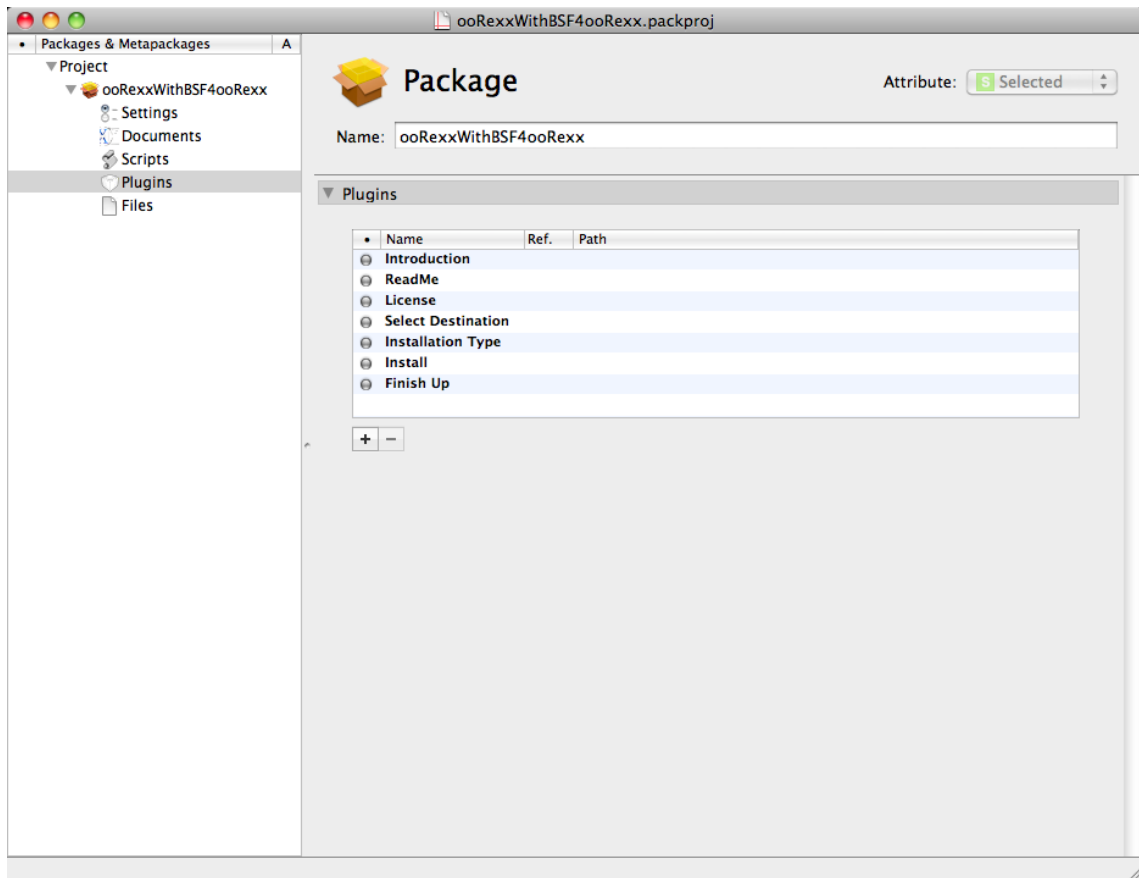


Figure 42: The Iceberg project's plugin settings.

5.3.5 Files

The `File` settings, depicted in figure 43, allow to define which files the installer will copy to which destination. Files and folders can be added either by using the context menu or by drag-and-drop.

5 Iceberg Installer for Mac OS X

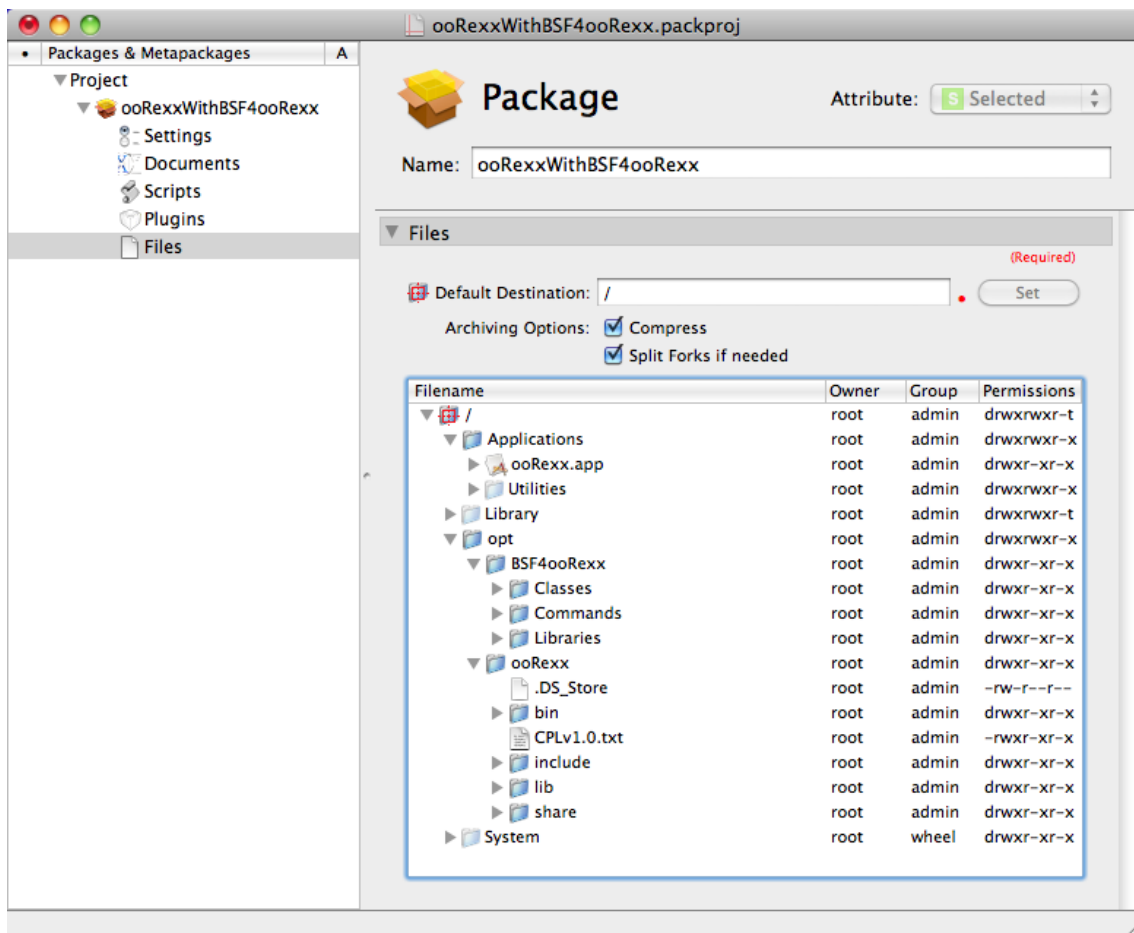


Figure 43: The Iceberg project's file settings.

First, the `/opt` folder has to be created. This is done by right-clicking the `/`-icon and choosing “New Folder” in the context menu. Then the `BSF4ooRexx` and `ooRexx` folders from the `sources` folder, created in chapter 5.1.1, have to be added by drag-and-drop.

The next step is to drag the `ooRexx.app` into the `Applications` folder. In order to make the reinstall script working properly, the `sources` folder has to be added to the application bundle itself. Therefore, the bundle's structure has to be expanded by right-clicking on `ooRexx.app` and choosing “Expand All” from the context menu. This makes it possible to drag the `sources` folder into the `Contents` folder of the bundle.

After adding all files and folders, the installer package can be built.

5.3.6 Building the Package

There are two ways to build the installation package.

Using the Iceberg GUI: To build the package the user simply has to choose `Build` → `Build` from the menu bar.

Using the command line: The command `freeze`, which is installed together with Iceberg, can be used to build the installer from the command line [23].

5.4 Use Cases

The usage of the installer, reinstaller and uninstaller for Mac OS X is explained in the following chapters.

5.4.1 Install

After double-clicking on the installer package, the installer starts and shows a dialog as depicted in figure 44.

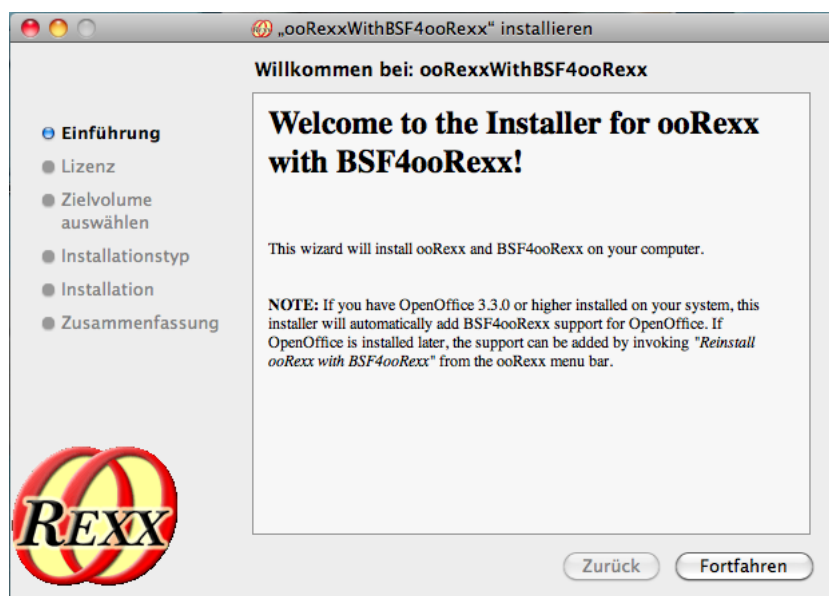


Figure 44: Welcome dialog of the ooRexx and BSF4ooRexx installer for Mac OS X.

5 Iceberg Installer for Mac OS X

When the “Next” button will be clicked, the license agreement, as shown in figure 45, will be displayed.

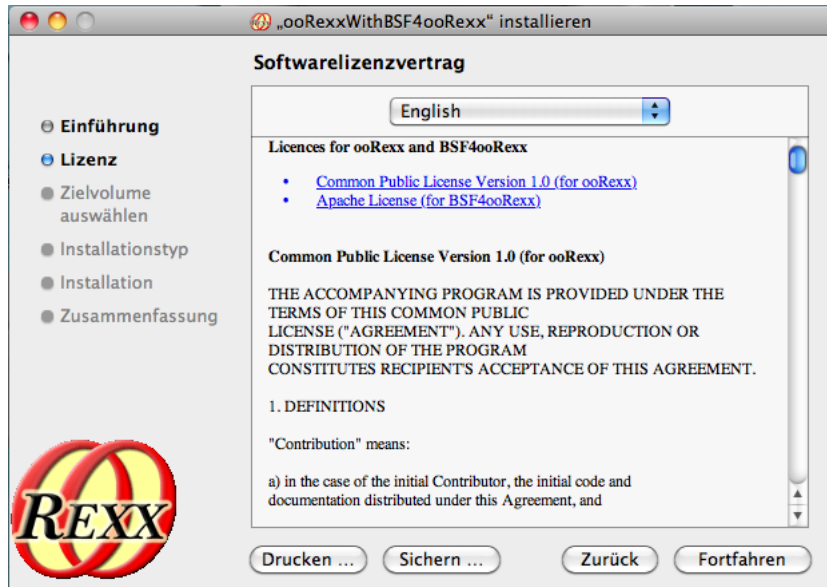


Figure 45: Licence agreement of the ooRexx and BSF4ooRexx installer for Mac OS X.

After accepting the license, the user has to choose the system drive, as shown in figure 46.



Figure 46: Installation target of the ooRexx and BSF4ooRexx installer for Mac OS X.

The next screen, depicted in figure 47, shows a summary of the installation process.

5 Iceberg Installer for Mac OS X



Figure 47: Installation summary of the ooRexx and BSF4ooRexx installer for Mac OS X.

After clicking on the “Install” button the installation, as shown in figure 48, begins.

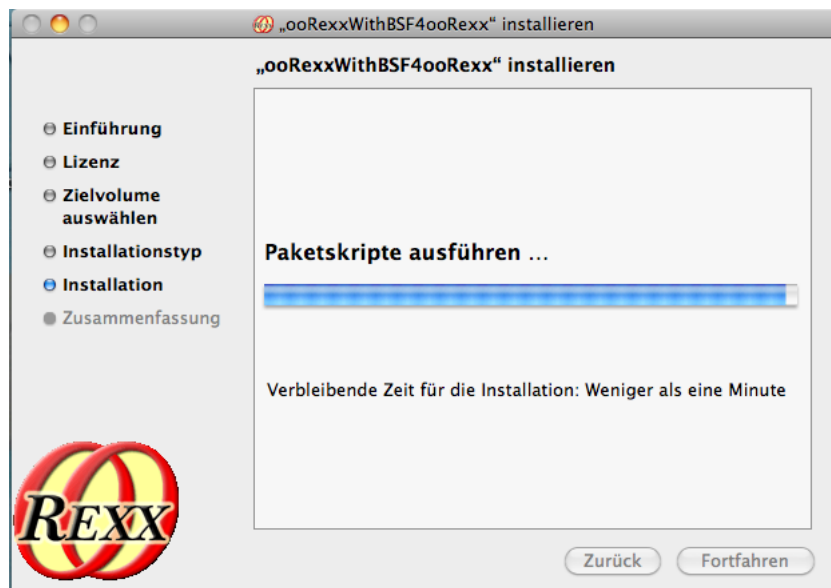


Figure 48: Installing window of the ooRexx and BSF4ooRexx installer for Mac OS X.

The installation was successful, when the dialog depicted in figure 49 is displayed.



Figure 49: Finish dialog of the ooRexx and BSF4ooRexx installer for Mac OS X.

5.4.2 Reinstall

The reinstaller can be started from the ooRexx menu bar by choosing `Installation → Reinstall ooRexx with BSF4ooRexx`. After clicking on the menu item, the message shown in figure 50 will be displayed.



Figure 50: Reinstall message of the ooRexx and BSF4ooRexx reinstaller for Mac OS X.

The reinstallation was successful, when the dialog depicted in figure 51 is shown.

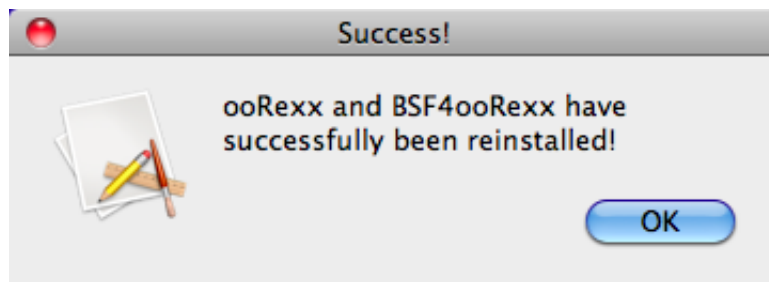


Figure 51: Finish dialog of the ooRexx and BSF4ooRexx reinstaller for Mac OS X.

5.4.3 Uninstall

The uninstaller can be started from the ooRexx menu bar by choosing `Installation → Uninstall ooRexx with BSF4ooRexx`. After clicking on the menu item, the message shown in figure 52 will be displayed.



Figure 52: Uninstall message of the ooRexx and BSF4ooRexx uninstaller for Mac OS X.

The uninstallation was successful, when the dialog depicted in figure 53 is shown.

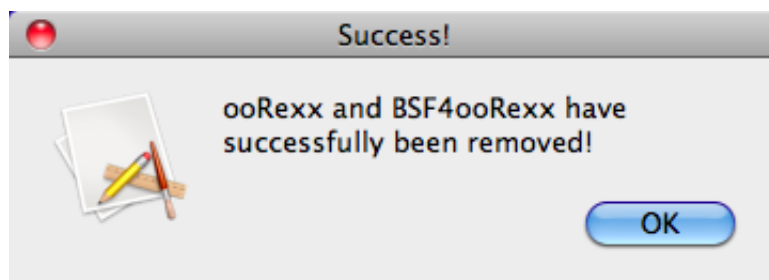


Figure 53: Finish dialog of the ooRexx and BSF4ooRexx uninstaller for Mac OS X.

6 Appendix

In the following chapters we have collected the used programs, the source codes which are necessary to create the installers for each operating system.

6.1 Used Programs

To carry out the tasks described in this work, the programs explained in the following chapters have been used.

6.1.1 Windows

HM NIS Editor: HM NIS Edit is an editor for NSIS. It is free and is available from [4].

NSIS (Nullsoft Scriptable Install System): Nullsoft Scriptable Install System (NSIS) is a script based Installer for Windows. It was developed by Nullsoft. NSIS is open source software and licensed under different free software licences [3].

6.1.2 Debian Linux

Debian Package Management System (deb): The Debian package management system is capable of installing, uninstalling and updating software programs organized in packages. The system comes with every Debian-based Linux distribution and doesn't have to be installed separately.

vim: vim [24] is a free, open source editor program with a large number of supported programming languages. Especially its feature for syntax highlighting makes it very useful.

6.1.3 Red Hat Linux

RPM Package Management System (rpm): *The RPM Package Manager (RPM) is a ... command line driven package management system capable of installing, uninstalling, ... and updating computer software packages. Each software package consists of files along with information about the package like its version, a description, and the like [18].*

The RPM system comes with every Red Hat-based Linux distribution and does not have to be installed separately.

vim: vim [24] is a free, open source editor program with a large number of supported programming languages. Especially its feature for syntax highlighting makes it very useful.

6.1.4 Mac OS X

MacVim: MacVim [25] is a free, open source editor program with a large number of supported programming languages. Especially its feature for syntax highlighting makes it very useful.

Iceberg: *“Iceberg is an Integrated Packaging Environment (IPE) that allows you to create packages or metapackages conforming to the Mac OS X specifications” [21].* It has a graphical user interface for creating and editing installer projects.

6.2 Source Codes

The following chapters contain the source code of the files created in this work.

6.2.1 The NSIS Installation Script for 32 bit Windows

```

1 ; Name: BSF4ooRexx_x32.nsi
2 ; Purpose: NSIS script for BSF4ooRexx (32 bit)
3 ; Author: Juergen Hesse, Manuel Paar
4 ; Version: 1.0
5 ;
6 ; ----- Apache Version 2.0 license
   ↳ -----
7 ; Copyright (C) 2011 Juergen Hesse, Manuel Paar
8 ;
9 ; Licensed under the Apache License, Version 2.0 (the "License");
10 ; you may not use this file except in compliance with the License.
11 ; You may obtain a copy of the License at
12 ;
13 ; http://www.apache.org/licenses/LICENSE-2.0
14 ;
15 ; Unless required by applicable law or agreed to in writing, software
16 ; distributed under the License is distributed on an "AS IS" BASIS,
17 ; WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   ↳ implied.
18 ; See the License for the specific language governing permissions and
19 ; limitations under the License.
20 ;
   ↳ -----
   ↳
21
22 !include "MUI.nsh"
23 !include "EnvVarUpdate.nsh"
24
25 !define PRODUCT_NAME "BSF4ooRexx"
26 !define PRODUCT_UNINST_KEY "Software\Microsoft\Windows\CurrentVersion\
   ↳ Uninstall\${PRODUCT_NAME}"
27 !define PRODUCT_UNINST_ROOT_KEY "HKLM"
28
29 SetCompressor lzma
30
31 ; MUI Settings
32 !define MUI_ABORTWARNING
33 !define MUI_ICON ".\BSF4ooRexx_install\bsf4oorexx\install\images\windows\
   ↳ bsf4oorexx.ico"
34 !define MUI_UNICON ".\BSF4ooRexx_install\bsf4oorexx\install\images\
   ↳ windows\bsf4oorexx.ico"
35
36 ; Welcome page
37 !insertmacro MUI_PAGE_WELCOME
38 ; License page
39 !define MUI_LICENSEPAGE_CHECKBOX
40 !insertmacro MUI_PAGE_LICENSE ".\BSF4ooRexx_install\ApacheLicense2.0.txt"
41 ; Instfiles page
42 !insertmacro MUI_PAGE_INSTFILES

```

```

43 ; Finish page
44 !insertmacro MUI_PAGE_FINISH
45
46 ; Uninstaller pages
47 !insertmacro MUI_UNPAGE_INSTFILES
48
49 ; Language files
50 !insertmacro MUI_LANGUAGE "English"
51
52 ; Reserve files
53 !insertmacro MUI_RESERVEFILE_INSTALLOPTIONS
54
55 Var JAVA_INSTALLATION_MSG
56 Var REXX_HOME
57 Var REXX_VER
58 Var REXX_INSTALLATION_MSG
59 Var OO_HOME
60 Var LO_HOME
61 Var WINDOWS_ARCHITECTURE
62 Var PRODUCT_VERSION
63
64 Name "${PRODUCT_NAME} $PRODUCT_VERSION"
65 OutFile "BSF4ooRexx_Setup_x32.exe"
66 InstallDir "$PROGRAMFILES\BSF4ooRexx"
67 XPStyle on ; wenn XP, dann XP-Style verwenden
68 ShowInstDetails show
69 ShowUnInstDetails show
70
71 Section "BSF4ooRexx" SEC01
72 SetShellVarContext all
73 SetAutoClose false
74 SetOverwrite ifnewer
75
76 SetOutPath "$INSTDIR"
77 File ".\BSF4ooRexx_install\bsf4oorexx\addLinks200oSnippets.rxo"
78 File ".\BSF4ooRexx_install\bsf4oorexx\ApacheLicense2.0.txt"
79 File ".\BSF4ooRexx_install\bsf4oorexx\asm_LICENSE.TXT"
80 File ".\BSF4ooRexx_install\bsf4oorexx\bsf-rexx-engine.jar"
81 File ".\BSF4ooRexx_install\bsf4oorexx\bsf-v400-20090910.jar"
82 File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
83 File ".\BSF4ooRexx_install\bsf4oorexx\install\32\BSF4ooRexx.dll" ; 32
    ↳ oder 64 Bit
84 File ".\BSF4ooRexx_install\bsf4oorexx\BSF_OnTheFly.cls"
85 File ".\BSF4ooRexx_install\bsf4oorexx\credits.txt"
86 File ".\BSF4ooRexx_install\bsf4oorexx\janino_LICENSE.TXT"
87 File ".\BSF4ooRexx_install\bsf4oorexx\refcardBSF4ooRexx.pdf"
88 File ".\BSF4ooRexx_install\bsf4oorexx\refcardOOo.pdf"
89 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2-32.sh"
90 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2-64.sh"

```

6 Appendix

```
91 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.sh"
92 File ".\BSF4ooRexx_install\bsf4oorexx\rgf_util2.rex"
93 File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
94 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
95 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
96 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
97 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
98 File ".\BSF4ooRexx_Setup_x32_reinstall.exe"
99
100 File /r ".\BSF4ooRexx_install\bsf4oorexx\information"
101 File /r ".\BSF4ooRexx_install\bsf4oorexx\install"
102 File /r ".\BSF4ooRexx_install\bsf4oorexx\samples"
103 File /r ".\BSF4ooRexx_install\bsf4oorexx\Templates"
104 File /r ".\BSF4ooRexx_install\bsf4oorexx\utilities"
105
106 CreateDirectory "$SMPROGRAMS\BSF4ooRexx"
107 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\GUI RexxTry Program (ooRexxTry.
    ↳ rxj).lnk" "$INSTDIR\utilities\ooRexxTry.rxj" "" "$INSTDIR\install
    ↳ \images\windows\oorexxtry.ico"
108 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Information (ReleaseNotes,
    ↳ introductions to ooRexx, BSF4ooRexx overview).lnk" "$INSTDIR\
    ↳ information"
109
110 CreateDirectory "$SMPROGRAMS\BSF4ooRexx\Installation"
111 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\BSF4ooRexx Download
    ↳ Page.lnk" "http://sourceforge.net/projects/bsf4oorexx/"
112
113 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Samples (simple to comprehensive
    ↳ BSF4ooRexx examples).lnk" "$INSTDIR\samples"
114 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Utilities (some platform-
    ↳ independent utility scripts).lnk" "$INSTDIR\utilities"
115
116 WriteRegStr HKCR ".JREXX" "" "RexxJavaScript"
117 WriteRegStr HKCR ".JREXX" "Content Type" "text/x-rexx-java"
118 WriteRegStr HKCR ".JREXX" "PerceivedType" "text"
119
120 WriteRegStr HKCR ".ORX" "" "REXXScript"
121 WriteRegStr HKCR ".ORX" "Content Type" "text/x-rexx"
122 WriteRegStr HKCR ".ORX" "PerceivedType" "text"
123
124 WriteRegStr HKCR ".REXX" "" "REXXScript"
125 WriteRegStr HKCR ".REXX" "Content Type" "text/x-rexx"
126 WriteRegStr HKCR ".REXX" "PerceivedType" "text"
127
128 WriteRegStr HKCR ".REXXJ" "" "RexxJavaScript"
129 WriteRegStr HKCR ".REXXJ" "Content Type" "text/x-rexx-java"
130 WriteRegStr HKCR ".REXXJ" "PerceivedType" "text"
131
132 WriteRegStr HKCR ".RXJ" "" "RexxJavaScript"
```

```

133 WriteRegStr HKCR ".RXJ" "Content Type" "text/x-rexx-java"
134 WriteRegStr HKCR ".RXJ" "PerceivedType" "text"
135 WriteRegStr HKCR ".RXJ\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ REXXJavaScript (Rexx script using Java) executed by ooRexx.rxj"
136
137 WriteRegStr HKCR ".TESTGROUP" "" "REXXScript"
138 WriteRegStr HKCR ".TESTGROUP" "Content Type" "text/x-rexx"
139 WriteRegStr HKCR ".TESTGROUP" "PerceivedType" "text"
140
141 WriteRegStr HKCR ".TESTUNIT" "" "REXXScript"
142 WriteRegStr HKCR ".TESTUNIT" "Content Type" "text/x-rexx"
143 WriteRegStr HKCR ".TESTUNIT" "PerceivedType" "text"
144
145 WriteRegStr HKCR "RexxJavaScript" "" "RexxJavaScript (Rexx script using
    ↳ Java) executed by ooRexx"
146 WriteRegStr HKCR "RexxJavaScript\DefaultIcon" "" "$INSTDIR\install\
    ↳ images\windows\bsf4oorexx.ico,0"
147 WriteRegStr HKCR "RexxJavaScript\shell" "" "open"
148 WriteRegStr HKCR "RexxJavaScript\shell\edit" "" "Edit"
149 WriteRegStr HKCR "RexxJavaScript\shell\edit\command" "" 'notepad.exe "
    ↳ %1"'
150 WriteRegStr HKCR "RexxJavaScript\shell\open" "" "Run"
151 WriteRegStr HKCR "RexxJavaScript\shell\open\command" "" '$REXX_HOME\
    ↳ rexx.exe' "%1" %*'
152
153 WriteRegStr HKCR ".CLS" "" "REXXScript"
154 WriteRegStr HKCR ".CLS" "Content Type" "text/x-rexx"
155 WriteRegStr HKCR ".CLS" "PerceivedType" "text"
156
157 DeleteRegKey HKCR ".rex"
158 WriteRegStr HKCR ".rex" "" "REXXScript"
159 WriteRegStr HKCR ".rex" "Content Type" "text/x-rexx"
160 WriteRegStr HKCR ".rex" "PerceivedType" "text"
161 WriteRegStr HKCR ".rex\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ REXXScript (Rexx script) executed by ooRexx.rex"
162
163 DeleteRegKey HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj"
164 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithList" "a" "rexx.exe"
165 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithList" "MRUList" "a"
166 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithProgids" "RexxJavaScript" ""
167
168 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx" "Extension" "
    ↳ .rex"
169 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx-java" "
    ↳ Extension" ".rxj"

```

```

170
171 WriteRegStr HKCR "REXXScript" "" "RexxScript (Rexx script) executed by
    ↳ ooRexx"
172 WriteRegStr HKCR "REXXScript\DefaultIcon" "" "$INSTDIR\install\images\
    ↳ windows\oorexx.ico,0"
173 WriteRegStr HKCR "REXXScript\shell" "" "open"
174 WriteRegStr HKCR "REXXScript\shell\edit" "" "Edit"
175 WriteRegStr HKCR "REXXScript\shell\edit\command" "" 'notepad.exe "%1"'
176 WriteRegStr HKCR "REXXScript\shell\open" "" "Run"
177 WriteRegStr HKCR "REXXScript\shell\open\command" "" '$REXX_HOME\rexx.
    ↳ exe "%1" %*'
178
179 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$INSTDIR\bsf-rexx-engine.jar
    ↳ "
180 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$INSTDIR\bsf-v400-20090910.
    ↳ jar"
181
182 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$INSTDIR"
183
184 StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
185
186 x64:
187     ReadRegStr $1 HKLM "SOFTWARE\Wow6432Node\JavaSoft\Java Runtime
        ↳ Environment\1.6" "RuntimeLib"
188     File ".\rexxj.cmd"
189     File ".\rexxj2.cmd"
190     Goto AddJavaRuntimeLib
191
192 x32:
193     ReadRegStr $1 HKLM "SOFTWARE\JavaSoft\Java Runtime Environment\1.6"
        ↳ "RuntimeLib"
194     File "/oname=rexxj.cmd" ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.cmd
        ↳ "
195     File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.cmd"
196     Goto AddJavaRuntimeLib
197
198 AddJavaRuntimeLib:
199     ${StrRep} $2 "$1" "\jvm.dll" ""
200     ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$2"
201
202 ; wurde OpenOffice gefunden?
203 StrCmp "" $OO_HOME SearchLibreOffice OoFound
204
205 ; ja, kopier die notwendigen Daten
206 OoFound:
207     KillProcDLL::KillProc "soffice.exe"
208     KillProcDLL::KillProc "soffice.bin"
209     SetOutPath "$OO_HOMEprogram"

```

```

210 File ".\BSF4ooRexx_install\bsf4oorexx\install\32\BSF4ooRexx.dll" ;
    ↳ 32 oder 64 Bit
211 File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
212 File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
213 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
214 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
215 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
216 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
217
218 SetOutPath "$OO_HOMEBasis\share\Scripts\javascript"
219 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \javascript\HowtoCreateApiInfo"
220
221 SetOutPath "$OO_HOMEBasis\share\Scripts"
222 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \oorexx"
223
224 SetOutPath "$OO_HOMEBasis\share\Scripts\python"
225 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \python\pythonSamples"
226
227 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEprogram\"
228 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEBasis\program\
    ↳ classes\unoil.jar"
229 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\ridl.jar
    ↳ "
230 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\jurt.jar
    ↳ "
231 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\juh.jar"
232
233 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$OO_HOMEprogram"
234
235 SetOutPath "$INSTDIR\install"
236 ExecWait '$OO_HOMEprogram\unopkg.exe' add --shared
    ↳ ScriptProviderForooRexx.oxt'
237 StrCmp "" $LO_HOME AddOfficeReg LOFound
238
239 SearchLibreOffice:
240     ; wurde LibreOffice gefunden?
241     StrCmp "" $LO_HOME Done LOFound
242
243 ; ja, kopier die notwendigen Daten
244 LOFound:
245     KillProcDLL::KillProc "soffice.exe"
246     KillProcDLL::KillProc "soffice.bin"
247     SetOutPath $LO_HOME"program"
248     File ".\BSF4ooRexx_install\bsf4oorexx\install\32\BSF4ooRexx.dll" ;
        ↳ 32 oder 64 Bit
249     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"

```

```

250 File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
251 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
252 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
253 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
254 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
255
256 SetOutPath "$LO_HOMEBasis\share\Scripts\javascript"
257 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \javascript\HowtoCreateApiInfo"
258
259 SetOutPath "$LO_HOMEBasis\share\Scripts"
260 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \oorexx"
261
262 SetOutPath "$LO_HOMEBasis\share\Scripts\python"
263 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \python\pythonSamples"
264
265 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEprogram\"
266 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEBasis\program\
    ↳ classes\unoil.jar"
267 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\ridl.jar
    ↳ "
268 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\jurt.jar
    ↳ "
269 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\juh.jar"
270
271 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$LO_HOMEprogram"
272
273 SetOutPath "$INSTDIR\install"
274 ExecWait '$LO_HOMEprogram\unopkg.exe' add --shared
    ↳ ScriptProviderForooRexx.oxt'
275 Goto AddOfficeReg
276
277 AddOfficeReg:
278 WriteRegStr HKCR ".RXO" "" "RexxOOoScript"
279 WriteRegStr HKCR ".RXO" "Content Type" "text/x-rexx-java-ooo"
280 WriteRegStr HKCR ".RXO" "PerceivedType" "text"
281 WriteRegStr HKCR ".RXO\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ RexxOOoScript (Rexx script using OpenOffice.org) executed by
    ↳ ooRexx.rxo"
282
283 WriteRegStr HKCR "RexxOOoScript" "" "RexxOOoScript (Rexx script
    ↳ using OpenOffice.org/LibreOffice) executed by ooRexx"
284 WriteRegStr HKCR "RexxOOoScript\DefaultIcon" "" "$INSTDIR\install\
    ↳ images\windows\oorexx4ooo.ico,0"
285 WriteRegStr HKCR "RexxOOoScript\shell" "" "open"
286 WriteRegStr HKCR "RexxOOoScript\shell\edit" "" "Edit"

```



```

287 WriteRegStr HKCR "Rexx00oScript\shell\edit\command" "" 'notepad.exe
    ↳ "%1"
288 WriteRegStr HKCR "Rexx00oScript\shell\open" "" "Run"
289 WriteRegStr HKCR "Rexx00oScript\shell\open\command" "" '$REXX_HOME\
    ↳ rexx.exe' "%1" %*'
290
291 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx-java-ooo" "
    ↳ Extension" ".rxo"
292 Goto Done
293
294 Done:
295 ExecWait "$INSTDIR\install\associationChanged.exe"
296 SectionEnd
297
298 Section -AdditionalIcons
299 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Uninstall
    ↳ BSF4ooRexx.lnk" "$INSTDIR\uninst.exe" "" "$INSTDIR\install\images
    ↳ \windows\bsf4oorexx.ico"
300 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Reinstall
    ↳ BSF4ooRexx.lnk" "$INSTDIR\BSF4ooRexx_Setup_x32_reinstall.exe" ""
    ↳ "$INSTDIR\install\images\windows\bsf4oorexx.ico"
301 SectionEnd
302
303 Section -Post
304 WriteUninstaller "$INSTDIR\uninst.exe"
305 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ DisplayName" "${(^Name)}"
306 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ UninstallString" "$INSTDIR\uninst.exe"
307 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ DisplayIcon" "$INSTDIR\install\images\windows\bsf4oorexx.ico"
308 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ DisplayVersion" "$PRODUCT_VERSION"
309 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ NoRepair" 0
310 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ NoModify" 0
311 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ ModifyPath" "$INSTDIR\BSF4ooRexx_Setup_x32_reinstall.exe"
312 SectionEnd
313
314
315 Function un.onUninstSuccess
316 IfSilent jump_if_silent jump_if_not_silent
317
318 jump_if_not_silent:
319 HideWindow
320 MessageBox MB_ICONINFORMATION|MB_OK "${(^Name)} was successfully
    ↳ uninstalled." IDOK

```

```

321
322     jump_if_silent:
323
324 FunctionEnd
325
326 Function un.onInit
327     Call un.getBSFVersion
328
329     IfSilent jump_if_silent jump_if_not_silent
330
331     jump_if_not_silent:
332         MessageBox MB_ICONQUESTION|MB_YESNO|MB_DEFBUTTON2 "Do you want to
           ↳ uninstall $(^Name) and all the components?" IDYES +2
333         Abort
334
335     jump_if_silent:
336
337 FunctionEnd
338
339 Section Uninstall
340     SetShellVarContext all
341
342     ; wurde OpenOffice/LibreOffice gefunden?
343     Call un.FindOpenOffice
344     Call un.FindLibreOffice
345     StrCmp "" $OO_HOME SearchLibreOffice OoFound
346
347     ; ja, loesche die Daten
348     OoFound:
349         KillProcDLL::KillProc "soffice.exe"
350         KillProcDLL::KillProc "soffice.bin"
351
352         Rmdir /r "$OO_HOMEBasis\share\Scripts\javascript\HowtoCreateApiInfo"
353         Rmdir /r "$OO_HOMEBasis\share\Scripts\oorexx"
354         Rmdir /r "$OO_HOMEBasis\share\Scripts\python\pythonSamples"
355
356         ExecWait "$OO_HOMEprogram\unopkg.exe remove --shared
           ↳ ScriptProviderForooRexx.oxt"
357
358         Delete "$OO_HOMEprogram\BSF4ooRexx.dll"
359         Delete "$OO_HOMEprogram\BSF.CLS"
360         Delete "$OO_HOMEprogram\UNO.CLS"
361         Delete "$OO_HOMEprogram\UNO_API_info.rxo"
362         Delete "$OO_HOMEprogram\UNO_CREATE_INTERFACE_LIST.RXO"
363         Delete "$OO_HOMEprogram\UNO_ReflectionUtil.cls"
364         Delete "$OO_HOMEprogram\UNO_XINTERFACES.RXO"
365
366     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEprogram\"

```

```

367     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEBasis\program\
        ↳ classes\unoil.jar"
368     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\ridl.
        ↳ jar"
369     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\jurt.
        ↳ jar"
370     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\juh.
        ↳ jar"
371
372     ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$OO_HOMEprogram"
373     StrCmp "" $LO_HOME RemOfficeReg LOFound
374
375     SearchLibreOffice:
376         ; wurde LibreOffice gefunden?
377         StrCmp "" $LO_HOME Done LOFound
378
379     ; ja, loesche die Daten
380     LOFound:
381         KillProcDLL::KillProc "soffice.exe"
382         KillProcDLL::KillProc "soffice.bin"
383
384         Rmdir /r "$LO_HOMEBasis\share\Scripts\javascript\HowtoCreateApiInfo"
385         Rmdir /r "$LO_HOMEBasis\share\Scripts\oorexx"
386         Rmdir /r "$LO_HOMEBasis\share\Scripts\python\pythonSamples"
387
388         ExecWait "$LO_HOMEprogram\unopkg.exe remove --shared
        ↳ ScriptProviderForooRexx.oxt"
389
390         Delete "$LO_HOMEprogram\BSF4ooRexx.dll"
391         Delete "$LO_HOMEprogram\BSF.CLS"
392         Delete "$LO_HOMEprogram\UNO.CLS"
393         Delete "$LO_HOMEprogram\UNO_API_info.rxo"
394         Delete "$LO_HOMEprogram\UNO_CREATE_INTERFACE_LIST.RXO"
395         Delete "$LO_HOMEprogram\UNO_ReflectionUtil.cls"
396         Delete "$LO_HOMEprogram\UNO_XINTERFACES.RXO"
397
398     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEprogram\"
399     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEBasis\program\
        ↳ classes\unoil.jar"
400     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\ridl.
        ↳ jar"
401     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\jurt.
        ↳ jar"
402     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\juh.
        ↳ jar"
403
404     ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$LO_HOMEprogram"
405     Goto RemOfficeReg
406

```

```

407 RemOfficeReg:
408     DeleteRegKey HKCR ".RXO"
409     DeleteRegKey HKCR "RexxOOoScript"
410     DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx-java-ooo"
411     Goto Done
412
413 Done:
414     StrCmp $WINDOWS_ARCHITECTURE "64" OS64 OS32
415
416 OS64:
417     SetRegView 64
418
419 OS32:
420     DeleteRegKey ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
421     SetRegView 32
422     DeleteRegKey HKCR ".JREXX"
423     DeleteRegKey HKCR ".ORX"
424     DeleteRegKey HKCR ".REXX"
425     DeleteRegKey HKCR ".REXXJ"
426     DeleteRegKey HKCR ".RXJ"
427     DeleteRegKey HKCR ".TESTGROUP"
428     DeleteRegKey HKCR ".TESTUNIT"
429     DeleteRegKey HKCR "RexxJavaScript"
430     DeleteRegKey HKCR ".CLS"
431     DeleteRegKey HKCR ".rex"
432     DeleteRegKey HKCU "Software\Microsoft\Windows\CurrentVersion\
        ↳ Explorer\FileExts\ .rxj"
433     DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx"
434     DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx-java"
435
436     WriteRegStr HKCR "REXXScript" "" "ooRexx Rexx Progam"
437     WriteRegStr HKCR "REXXScript\DefaultIcon" "" "$REXX_HOME\rexx.exe,0"
438
439     ExecWait "$INSTDIR\install\associationChanged.exe"
440
441     RMDir /r "$INSTDIR"
442     RMDir /r "$SMPROGRAMS\BSF4ooRexx"
443     RMDir "$INSTDIR"
444     RMDir "$SMPROGRAMS\BSF4ooRexx"
445
446     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-rexx-
        ↳ engine.jar"
447     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-v400
        ↳ -20090910.jar"
448
449     ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$INSTDIR"
450
451     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
452

```

```

453     x64:
454         ReadRegStr $1 HKLM "SOFTWARE\Wow6432Node\JavaSoft\Java Runtime
           ↳ Environment\1.6" "RuntimeLib"
455         Goto RemJavaRuntimeLib
456
457     x32:
458         ReadRegStr $1 HKLM "SOFTWARE\JavaSoft\Java Runtime Environment
           ↳ \1.6" "RuntimeLib"
459         Goto RemJavaRuntimeLib
460
461     RemJavaRuntimeLib:
462         ${un.StrRep} $2 "$1" "\jvm.dll" ""
463         ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$2"
464
465         SetAutoClose false
466 SectionEnd
467
468 ; Ueberpruefung ob Java bzw. ooRexx installiert ist und
469 ; sucht den OpenOffice/LibreOffice Ordner
470 Function .onInit
471     Push $0
472     Push $1
473     Push $2
474     InitPluginsDir
475
476     GetVersion::WindowsPlatformArchitecture
477     Pop $WINDOWS_ARCHITECTURE ;32 oder 64
478
479     Call getBSFVersion
480     Call FindooRexx
481     StrCmp "" $REXX_INSTALLATION_MSG REXXSuccess REXXNoSuccess
482
483     REXXSuccess:
484         Call FindJava
485         StrCmp "" $JAVA_INSTALLATION_MSG JavaSuccess JavaNoSuccess
486
487     JavaSuccess:
488         Call FindOpenOffice
489         Call FindLibreOffice
490         ReadRegStr $0 ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
           ↳ "DisplayName"
491         ReadRegStr $1 ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
           ↳ "DisplayVersion"
492         StrCmp $0 "${(^Name)}" FoundBSF
493         Goto Done
494
495     JavaNoSuccess:
496         MessageBox MB_OK|MB_ICONEXCLAMATION $JAVA_INSTALLATION_MSG
497         Goto Error

```

6 Appendix

```
498
499 RexxNoSuccess:
500     MessageBox MB_OK|MB_ICONEXCLAMATION $REXX_INSTALLATION_MSG
501     Goto Error
502
503 FoundBSF:
504     IfSilent jump_if_silent jump_if_not_silent
505
506     jump_if_not_silent:
507         MessageBox MB_ICONQUESTION|MB_YESNO "Version $1 of
508             ↳ BSF4ooRexx is installed. You have to uninstall it
509             ↳ before installing this version. Would you like to
510             ↳ uninstall it?" IDNO err
511
512     jump_if_silent:
513
514     ExecWait '$INSTDIR\uninst.exe' /S _?=$INSTDIR'
515     Goto Done
516
517 err:
518     MessageBox MB_OK|MB_ICONEXCLAMATION "The installation was aborted
519         ↳ ."
520     Abort
521
522 Error:
523     RMDir /r "$INSTDIR"
524     Abort
525
526 Done:
527     Pop $2
528     Pop $1
529     Pop $0
530
531 FunctionEnd
532
533 ; setzt PRODUCT_VERSION
534 Function getBSFVersion
535     Push $0
536
537     SetOutPath "$INSTDIR"
538     File ".$getBSFVersion.rex"
539     File ".$BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
540     ExecWait "rexex getBSFVersion.rex"
541
542     FileOpen $0 "$INSTDIR\BSFVersion.txt" r
543     FileRead $0 $PRODUCT_VERSION
544     FileClose $0
545
546     Delete "$INSTDIR\getBSFVersion.rex"
547     Delete "$INSTDIR\BSF.CLS"
548     Delete "$INSTDIR\BSFVersion.txt"
```

```

543
544     Pop $0
545 FunctionEnd
546
547 Function un.getBSFVersion
548     Push $0
549
550     SetOutPath "$INSTDIR"
551     File ".\getBSFVersion.rex"
552     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
553     ExecWait "rexx getBSFVersion.rex"
554
555     FileOpen $0 "$INSTDIR\BSFVersion.txt" r
556     FileRead $0 $PRODUCT_VERSION
557     FileClose $0
558
559     Delete "$INSTDIR\getBSFVersion.rex"
560     Delete "$INSTDIR\BSF.CLS"
561     Delete "$INSTDIR\BSFVersion.txt"
562
563     Pop $0
564 FunctionEnd
565
566 ; sucht installierte Java-Version
567 Function FindJava
568     Push $0
569     Push $1
570
571     SetOutPath "$INSTDIR"
572     File ".\java_version.rex"
573     ExecWait "rexx java_version.rex bitness" $0
574     ExecWait "rexx java_version.rex version" $1
575     Delete "$INSTDIR\java_version.rex"
576     StrCmp $0 "64" JavaVerNotCorrect CheckVersion
577
578     CheckVersion:
579         StrCmp $1 "1" Done JavaVerNotCorrect
580
581     JavaVerNotCorrect:
582         StrCpy $JAVA_INSTALLATION_MSG "You need Java version 1.4 (32 bit)
583         ↳ or newer to run this program."
584
585     Done:
586         Pop $1
587         Pop $0
588 FunctionEnd
589
590 ; sucht installiertes ooRexx
590 Function FindooRexx

```

```

591 Push $0
592 Push $1
593 Push $2
594 Push $3
595
596 ReadRegStr $REXX_VER HKLM "Software\Microsoft\Windows\CurrentVersion\
    ↳ Uninstall\ooRexx" "DisplayVersion"
597 StrCmp "" "$REXX_VER" REXXNotPresent
598 ReadRegStr $0 HKLM "SYSTEM\CurrentControlSet\Control\Session Manager\
    ↳ Environment" "REXX_HOME"
599 StrCmp "" $0 REXXNotPresent CheckRexxVer
600
601 REXXNotPresent:
602     StrCpy $REXX_INSTALLATION_MSG "ooRexx is not installed on your
        ↳ computer. You need version 4.0.1 (32 bit) or newer to run
        ↳ this program."
603     Goto Done
604
605 CheckRexxVer:
606     GetFullPathName /SHORT $REXX_HOME "$0"
607     StrCpy $0 $REXX_VER 1 0
608     StrCpy $1 $REXX_VER 1 2
609     StrCpy $2 $REXX_VER 1 4
610     StrCpy $REXX_VER "$0$1$2"
611     IntCmp 401 $REXX_VER FoundCorrectRexxVer FoundCorrectRexxVer
        ↳ REXXVerNotCorrect
612
613 FoundCorrectRexxVer:
614     IfFileExists "$REXX_HOME\rexx.exe" CheckRexxBitness
        ↳ REXXNotPresent
615
616 CheckRexxBitness:
617     SetOutPath "$INSTDIR"
618     File ".\rexx_version.rex"
619     ExecWait "rexx rexx_version.rex" $3
620     Delete "$INSTDIR\rexx_version.rex"
621     StrCmp $3 "32" Done REXXVerNotCorrect
622
623 REXXVerNotCorrect:
624     StrCpy $REXX_INSTALLATION_MSG "The version of ooRexx installed on
        ↳ your computer is $0.$1.$2 ($3 bit). Version 4.0.1 (32 bit)
        ↳ or newer is required to run this program."
625
626 Done:
627     Pop $3
628     Pop $2
629     Pop $1
630     Pop $0
631 FunctionEnd

```



```

632
633 ; sucht installiertes OpenOffice
634 Function FindOpenOffice
635     Push $0
636
637     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
638
639     x64:
640         ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\OpenOffice.org\Layers\
        ↳ OpenOffice.org\3" "OFFICEINSTALLLOCATION"
641         StrCmp "" $0 Done OoFound
642
643     x32:
644         ReadRegStr $0 HKLM "SOFTWARE\OpenOffice.org\Layers\OpenOffice.org
        ↳ \3" "OFFICEINSTALLLOCATION"
645         StrCmp "" $0 Done OoFound
646
647     OoFound:
648         GetFullPathName $OO_HOME "$0" ; /SHORT entfernt
649         Goto Done
650
651     Done:
652         Pop $0
653 FunctionEnd
654
655 Function un.FindOpenOffice
656     Push $0
657
658     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
659
660     x64:
661         ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\OpenOffice.org\Layers\
        ↳ OpenOffice.org\3" "OFFICEINSTALLLOCATION"
662         StrCmp "" $0 Done OoFound
663
664     x32:
665         ReadRegStr $0 HKLM "SOFTWARE\OpenOffice.org\Layers\OpenOffice.org
        ↳ \3" "OFFICEINSTALLLOCATION"
666         StrCmp "" $0 Done OoFound
667
668     OoFound:
669         GetFullPathName $OO_HOME "$0" ; /SHORT entfernt
670         Goto Done
671
672     Done:
673         Pop $0
674 FunctionEnd
675
676 ; sucht installiertes LibreOffice

```

```

677 Function FindLibreOffice
678     Push $0
679
680     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
681
682     x64:
683         ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\LibreOffice\Layers_\
        ↳ LibreOffice\3" "OFFICEINSTALLLOCATION"
684         StrCmp "" $0 Done LOFound
685
686     x32:
687         ReadRegStr $0 HKLM "SOFTWARE\LibreOffice\Layers_\LibreOffice\3" "
        ↳ OFFICEINSTALLLOCATION"
688         StrCmp "" $0 Done LOFound
689
690     LOFound:
691         GetFullPathName $LO_HOME "$0" ; /SHORT entfernt
692         Goto Done
693
694     Done:
695         Pop $0
696 FunctionEnd
697
698 Function un.FindLibreOffice
699     Push $0
700
701     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
702
703     x64:
704         ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\LibreOffice\Layers_\
705         ↳ LibreOffice\3" "OFFICEINSTALLLOCATION"
706         StrCmp "" $0 Done LOFound
707
708     x32:
709         ReadRegStr $0 HKLM "SOFTWARE\LibreOffice\Layers_\LibreOffice\3" "
710         ↳ OFFICEINSTALLLOCATION"
711         StrCmp "" $0 Done LOFound
712
713     LOFound:
714         GetFullPathName $LO_HOME "$0" ; /SHORT entfernt
715         Goto Done
716
717     Done:
718         Pop $0
719 FunctionEnd

```

Listing 32: The NSIS Installation Script for 32bit Windows.

6.2.2 The NSIS Installation Script for 64 bit Windows

```

1 ; Name: BSF4ooRexx_x64.nsi
2 ; Purpose: NSIS script for BSF4ooRexx (64 bit)
3 ; Author: Juergen Hesse, Manuel Paar
4 ; Version: 1.0
5 ;
6 ; ----- Apache Version 2.0 license
   ↳ -----
7 ;     Copyright (C) 2011 Juergen Hesse, Manuel Paar
8 ;
9 ;     Licensed under the Apache License, Version 2.0 (the "License");
10 ;     you may not use this file except in compliance with the License.
11 ;     You may obtain a copy of the License at
12 ;
13 ;         http://www.apache.org/licenses/LICENSE-2.0
14 ;
15 ;     Unless required by applicable law or agreed to in writing, software
16 ;     distributed under the License is distributed on an "AS IS" BASIS,
17 ;     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   ↳ implied.
18 ;     See the License for the specific language governing permissions and
19 ;     limitations under the License.
20 ;
   ↳ -----
   ↳
21
22 !include "MUI.nsh"
23 !include "EnvVarUpdate.nsh"
24
25 !define PRODUCT_NAME "BSF4ooRexx"
26 !define PRODUCT_UNINST_KEY "Software\Microsoft\Windows\CurrentVersion\
   ↳ Uninstall\${PRODUCT_NAME}"
27 !define PRODUCT_UNINST_ROOT_KEY "HKLM"
28
29 SetCompressor lzma
30
31 ; MUI Settings
32 !define MUI_ABORTWARNING
33 !define MUI_ICON ".\BSF4ooRexx_install\bsf4oorexx\install\images\windows\
   ↳ bsf4oorexx.ico"
34 !define MUI_UNICON ".\BSF4ooRexx_install\bsf4oorexx\install\images\
   ↳ windows\bsf4oorexx.ico"
35
36 ; Welcome page
37 !insertmacro MUI_PAGE_WELCOME
38 ; License page
39 !define MUI_LICENSEPAGE_CHECKBOX
40 !insertmacro MUI_PAGE_LICENSE ".\BSF4ooRexx_install\ApacheLicense2.0.txt"

```

```

41 ; Instfiles page
42 !insertmacro MUI_PAGE_INSTFILES
43 ; Finish page
44 !insertmacro MUI_PAGE_FINISH
45
46 ; Uninstaller pages
47 !insertmacro MUI_UNPAGE_INSTFILES
48
49 ; Language files
50 !insertmacro MUI_LANGUAGE "English"
51
52 ; Reserve files
53 !insertmacro MUI_RESERVEFILE_INSTALLOPTIONS
54
55 Var JAVA_INSTALLATION_MSG
56 Var REXX_HOME
57 Var REXX_VER
58 Var REXX_INSTALLATION_MSG
59 Var OO_HOME
60 Var LO_HOME
61 Var WINDOWS_ARCHITECTURE
62 Var PRODUCT_VERSION
63
64 Name "${PRODUCT_NAME} $PRODUCT_VERSION"
65 OutFile "BSF4ooRexx_Setup_x64.exe"
66 InstallDir "$PROGRAMFILES64\BSF4ooRexx"
67 XPStyle on ; wenn XP, dann XP-Style verwenden
68 ShowInstDetails show
69 ShowUnInstDetails show
70
71 Section "BSF4ooRexx" SEC01
72 SetShellVarContext all
73 SetAutoClose true
74 SetOverwrite ifnewer
75
76 SetOutPath "$INSTDIR"
77 File ".\BSF4ooRexx_install\bsf4ooorexx\addLinks200oSnippets.rxo"
78 File ".\BSF4ooRexx_install\bsf4ooorexx\ApacheLicense2.0.txt"
79 File ".\BSF4ooRexx_install\bsf4ooorexx\asm_LICENSE.TXT"
80 File ".\BSF4ooRexx_install\bsf4ooorexx\bsf-rexx-engine.jar"
81 File ".\BSF4ooRexx_install\bsf4ooorexx\bsf-v400-20090910.jar"
82 File ".\BSF4ooRexx_install\bsf4ooorexx\BSF.CLS"
83 File ".\BSF4ooRexx_install\bsf4ooorexx\install\64\BSF4ooRexx.dll" ; 32
    ↳ oder 64 Bit
84 File ".\BSF4ooRexx_install\bsf4ooorexx\BSF_OnTheFly.cls"
85 File ".\BSF4ooRexx_install\bsf4ooorexx\credits.txt"
86 File ".\BSF4ooRexx_install\bsf4ooorexx\janino_LICENSE.TXT"
87 File ".\BSF4ooRexx_install\bsf4ooorexx\refcardBSF4ooRexx.pdf"
88 File ".\BSF4ooRexx_install\bsf4ooorexx\refcardOOo.pdf"

```

6 Appendix

```
89 File "/oname=rexxj.cmd" ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.cmd"
90 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.cmd"
91 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2-32.sh"
92 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2-64.sh"
93 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.sh"
94 File ".\BSF4ooRexx_install\bsf4oorexx\rgf_util2.rex"
95 File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
96 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
97 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
98 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
99 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
100 File ".\BSF4ooRexx_Setup_x64_reinstall.exe"
101
102 File /r ".\BSF4ooRexx_install\bsf4oorexx\information"
103 File /r ".\BSF4ooRexx_install\bsf4oorexx\install"
104 File /r ".\BSF4ooRexx_install\bsf4oorexx\samples"
105 File /r ".\BSF4ooRexx_install\bsf4oorexx\Templates"
106 File /r ".\BSF4ooRexx_install\bsf4oorexx\utilities"
107
108 CreateDirectory "$SMPROGRAMS\BSF4ooRexx"
109 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\GUI REXX Try Program (ooRexxTry.
    ↳ rxj).lnk" "$INSTDIR\utilities\ooRexxTry.rxj" "" "$INSTDIR\install
    ↳ \images\windows\oorexxtry.ico"
110 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\Information (ReleaseNotes,
    ↳ introductions to ooRexx, BSF4ooRexx overview).lnk" "$INSTDIR\
    ↳ information"
111
112 CreateDirectory "$SMPROGRAMS\BSF4ooRexx\Installation"
113 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\Installation\BSF4ooRexx Download
    ↳ Page.lnk" "http://sourceforge.net/projects/bsf4oorexx/"
114
115 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\Samples (simple to comprehensive
    ↳ BSF4ooRexx examples).lnk" "$INSTDIR\samples"
116 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\Utilities (some platform-
    ↳ independent utility scripts).lnk" "$INSTDIR\utilities"
117
118 WriteRegStr HKCR ".JREXX" "" "RexxJavaScript"
119 WriteRegStr HKCR ".JREXX" "Content Type" "text/x-rexx-java"
120 WriteRegStr HKCR ".JREXX" "PerceivedType" "text"
121
122 WriteRegStr HKCR ".ORX" "" "REXXScript"
123 WriteRegStr HKCR ".ORX" "Content Type" "text/x-rexx"
124 WriteRegStr HKCR ".ORX" "PerceivedType" "text"
125
126 WriteRegStr HKCR ".REXX" "" "REXXScript"
127 WriteRegStr HKCR ".REXX" "Content Type" "text/x-rexx"
128 WriteRegStr HKCR ".REXX" "PerceivedType" "text"
129
130 WriteRegStr HKCR ".REXXJ" "" "RexxJavaScript"
```

```

131 WriteRegStr HKCR ".REXXJ" "Content Type" "text/x-rexx-java"
132 WriteRegStr HKCR ".REXXJ" "PerceivedType" "text"
133
134 WriteRegStr HKCR ".rxj" "" "RexxJavaScript"
135 WriteRegStr HKCR ".rxj" "Content Type" "text/x-rexx-java"
136 WriteRegStr HKCR ".rxj" "PerceivedType" "text"
137 WriteRegStr HKCR ".rxj\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ RexxJavaScript (Rexx script using Java) executed by ooRexx.rxj"
138
139 WriteRegStr HKCR ".TESTGROUP" "" "REXXScript"
140 WriteRegStr HKCR ".TESTGROUP" "Content Type" "text/x-rexx"
141 WriteRegStr HKCR ".TESTGROUP" "PerceivedType" "text"
142
143 WriteRegStr HKCR ".TESTUNIT" "" "REXXScript"
144 WriteRegStr HKCR ".TESTUNIT" "Content Type" "text/x-rexx"
145 WriteRegStr HKCR ".TESTUNIT" "PerceivedType" "text"
146
147 WriteRegStr HKCR "RexxJavaScript" "" "RexxJavaScript (Rexx script using
    ↳ Java) executed by ooRexx"
148 WriteRegStr HKCR "RexxJavaScript\DefaultIcon" "" "$INSTDIR\install\
    ↳ images\windows\bsf4oorexx.ico,0"
149 WriteRegStr HKCR "RexxJavaScript\shell" "" "open"
150 WriteRegStr HKCR "RexxJavaScript\shell\edit" "" "Edit"
151 WriteRegStr HKCR "RexxJavaScript\shell\edit\command" "" 'notepad.exe "
    ↳ %1"'
152 WriteRegStr HKCR "RexxJavaScript\shell\open" "" "Run"
153 WriteRegStr HKCR "RexxJavaScript\shell\open\command" "" '$REXX_HOME\
    ↳ rexx.exe "%1" %*'
154
155 WriteRegStr HKCR ".CLS" "" "REXXScript"
156 WriteRegStr HKCR ".CLS" "Content Type" "text/x-rexx"
157 WriteRegStr HKCR ".CLS" "PerceivedType" "text"
158
159 DeleteRegKey HKCR ".rex"
160 WriteRegStr HKCR ".rex" "" "REXXScript"
161 WriteRegStr HKCR ".rex" "Content Type" "text/x-rexx"
162 WriteRegStr HKCR ".rex" "PerceivedType" "text"
163 WriteRegStr HKCR ".rex\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ RexxScript (Rexx script) executed by ooRexx.rex"
164
165 DeleteRegKey HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj"
166 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithList" "a" "rexx.exe"
167 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithList" "MRUList" "a"
168 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithProgids" "RexxJavaScript" ""
169

```

```

170 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx" "Extension" "
    ↳ .rex"
171 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx-java" "
    ↳ Extension" ".rxj"
172
173 WriteRegStr HKCR "REXXScript" "" "RexxScript (Rexx script) executed by
    ↳ ooRexx"
174 WriteRegStr HKCR "REXXScript\DefaultIcon" "" "$INSTDIR\install\images\
    ↳ windows\oorexx.ico,0"
175 WriteRegStr HKCR "REXXScript\shell" "" "open"
176 WriteRegStr HKCR "REXXScript\shell\edit" "" "Edit"
177 WriteRegStr HKCR "REXXScript\shell\edit\command" "" 'notepad.exe "%1"'
178 WriteRegStr HKCR "REXXScript\shell\open" "" "Run"
179 WriteRegStr HKCR "REXXScript\shell\open\command" "" ' "$REXX_HOME\rexx.
    ↳ exe" "%1" %*'
180
181 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$INSTDIR\bsf-rexx-engine.jar
    ↳ "
182 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$INSTDIR\bsf-v400-20090910.
    ↳ jar"
183
184 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$INSTDIR"
185
186 SetRegView 64
187 ReadRegStr $1 HKLM "SOFTWARE\JavaSoft\Java Runtime Environment\1.6" "
    ↳ RuntimeLib"
188 ${StrRep} $2 "$1" "\jvm.dll" ""
189 ${StrRep} $2 "$2" "client" "server"
190 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$2"
191
192 ; wurde OpenOffice gefunden?
193 StrCmp "" $OO_HOME SearchLibreOffice OOFound
194
195 ; ja, kopier die notwendigen Daten
196 OOFound:
197     KillProcDLL::KillProc "soffice.exe"
198     KillProcDLL::KillProc "soffice.bin"
199     SetOutPath "$OO_HOMEprogram"
200     File ".\BSF4ooRexx_install\bsf4oorexx\install\64\BSF4ooRexx.dll" ;
        ↳ 32 oder 64 Bit
201     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
202     File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
203     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
204     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
205     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
206     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
207
208     SetOutPath "$OO_HOMEBasis\share\Scripts\javascript"

```

```

209 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \javascript\HowtoCreateApiInfo"
210
211 SetOutPath "$OO_HOMEBasis\share\Scripts"
212 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \oorexx"
213
214 SetOutPath "$OO_HOMEBasis\share\Scripts\python"
215 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \python\pythonSamples"
216
217 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEprogram\"
218 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEBasis\program\
    ↳ classes\unoil.jar"
219 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\ridl.jar
    ↳ "
220 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\jurt.jar
    ↳ "
221 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\juh.jar"
222
223 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$OO_HOMEprogram"
224
225 SetOutPath "$INSTDIR\install"
226 ExecWait '$OO_HOMEprogram\unopkg.exe' add --shared
    ↳ ScriptProviderForooRexx.oxt'
227 StrCmp "" $LO_HOME AddOfficeReg LOFound
228
229 SearchLibreOffice:
230     ; wurde LibreOffice gefunden?
231     StrCmp "" $LO_HOME Done LOFound
232
233 ; ja, kopier die notwendigen Daten
234 LOFound:
235     KillProcDLL::KillProc "soffice.exe"
236     KillProcDLL::KillProc "soffice.bin"
237     SetOutPath $LO_HOME"program"
238     File ".\BSF4ooRexx_install\bsf4oorexx\install\64\BSF4ooRexx.dll" ;
        ↳ 32 oder 64 Bit
239     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
240     File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
241     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
242     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
243     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
244     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
245
246 SetOutPath "$LO_HOMEBasis\share\Scripts\javascript"
247 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \javascript\HowtoCreateApiInfo"
248

```


6 Appendix

```
249 SetOutPath "$LO_HOMEBasis\share\Scripts"
250 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \oorexx"
251
252 SetOutPath "$LO_HOMEBasis\share\Scripts\python"
253 File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
    ↳ \python\pythonSamples"
254
255 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEprogram\"
256 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEBasis\program\
    ↳ classes\unoil.jar"
257 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\ridl.jar
    ↳ "
258 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\jurt.jar
    ↳ "
259 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\juh.jar"
260
261 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$LO_HOMEprogram"
262
263 SetOutPath "$INSTDIR\install"
264 ExecWait '$LO_HOMEprogram\unopkg.exe' add --shared
    ↳ ScriptProviderForooRexx.oxt'
265 Goto AddOfficeReg
266
267 AddOfficeReg:
268 WriteRegStr HKCR ".RXO" "" "RexxOOoScript"
269 WriteRegStr HKCR ".RXO" "Content Type" "text/x-rexx-java-ooo"
270 WriteRegStr HKCR ".RXO" "PerceivedType" "text"
271 WriteRegStr HKCR ".RXO\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ RexxOOoScript (Rexx script using OpenOffice.org) executed by
    ↳ ooRexx.rxo"
272
273 WriteRegStr HKCR "RexxOOoScript" "" "RexxOOoScript (Rexx script
    ↳ using OpenOffice.org/LibreOffice) executed by ooRexx"
274 WriteRegStr HKCR "RexxOOoScript\DefaultIcon" "" "$INSTDIR\install\
    ↳ images\windows\oorexx4ooo.ico,0"
275 WriteRegStr HKCR "RexxOOoScript\shell" "" "open"
276 WriteRegStr HKCR "RexxOOoScript\shell\edit" "" "Edit"
277 WriteRegStr HKCR "RexxOOoScript\shell\edit\command" "" 'notepad.exe
    ↳ "%1"'
278 WriteRegStr HKCR "RexxOOoScript\shell\open" "" "Run"
279 WriteRegStr HKCR "RexxOOoScript\shell\open\command" "" '$REXX_HOME\
    ↳ rexx.exe' "%1" %*'
280
281 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx-java-ooo" "
    ↳ Extension" ".rxo"
282 Goto Done
283
284 Done:
```

```

285     ExecWait "$INSTDIR\install\associationChanged.exe"
286 SectionEnd
287
288 Section -AdditionalIcons
289     CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Uninstall
        ↳ BSF4ooRexx.lnk" "$INSTDIR\uninst.exe" "" "$INSTDIR\install\images
        ↳ \windows\bsf4oorexx.ico"
290     CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Reinstall
        ↳ BSF4ooRexx.lnk" "$INSTDIR\BSF4ooRexx_Setup_x64_reinstall.exe" ""
        ↳ "$INSTDIR\install\images\windows\bsf4oorexx.ico"
291 SectionEnd
292
293 Section -Post
294     WriteUninstaller "$INSTDIR\uninst.exe"
295     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ DisplayName" "$(^Name)"
296     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ UninstallString" "$INSTDIR\uninst.exe"
297     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ DisplayIcon" "$INSTDIR\install\images\windows\bsf4oorexx.ico"
298     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ DisplayVersion" "$PRODUCT_VERSION"
299     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ NoRepair" 0
300     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ NoModify" 0
301     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ ModifyPath" "$INSTDIR\BSF4ooRexx_Setup_x64_reinstall.exe"
302 SectionEnd
303
304 Function un.onUninstSuccess
305     IfSilent jump_if_silent jump_if_not_silent
306
307     jump_if_not_silent:
308         HideWindow
309         MessageBox MB_ICONINFORMATION|MB_OK "$(^Name) was successfully
            ↳ uninstalled." IDOK
310
311     jump_if_silent:
312
313 FunctionEnd
314
315 Function un.onInit
316     Call un.getBSFVersion
317     IfSilent jump_if_silent jump_if_not_silent
318
319     jump_if_not_silent:
320     MessageBox MB_ICONQUESTION|MB_YESNO|MB_DEFBUTTON2 "Do you want to
        ↳ uninstall $(^Name) and all the components?" IDYES +2

```

```

321     Abort
322
323     jump_if_silent:
324
325 FunctionEnd
326
327 Section Uninstall
328     SetShellVarContext all
329
330     ; wurde OpenOffice/LibreOffice gefunden?
331     Call un.FindOpenOffice
332     Call un.FindLibreOffice
333     StrCmp "" $OO_HOME SearchLibreOffice OOFound
334
335     ; ja, loesche die Daten
336     OOFound:
337         KillProcDLL::KillProc "soffice.exe"
338         KillProcDLL::KillProc "soffice.bin"
339
340         Rmdir /r "$OO_HOMEBasis\share\Scripts\javascript\HowtoCreateApiInfo"
341         Rmdir /r "$OO_HOMEBasis\share\Scripts\oorexx"
342         Rmdir /r "$OO_HOMEBasis\share\Scripts\python\pythonSamples"
343
344         ExecWait "$OO_HOMEprogram\unopkg.exe remove --shared
            ↳ ScriptProviderForooRexx.oxt"
345
346         Delete "$OO_HOMEprogram\BSF4ooRexx.dll"
347         Delete "$OO_HOMEprogram\BSF.CLS"
348         Delete "$OO_HOMEprogram\UNO.CLS"
349         Delete "$OO_HOMEprogram\UNO_API_info.rxo"
350         Delete "$OO_HOMEprogram\UNO_CREATE_INTERFACE_LIST.RXO"
351         Delete "$OO_HOMEprogram\UNO_ReflectionUtil.cls"
352         Delete "$OO_HOMEprogram\UNO_XINTERFACES.RXO"
353
354         ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEprogram\"
355         ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEBasis\program\
            ↳ classes\unoil.jar"
356         ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\ridl.
            ↳ jar"
357         ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\jurt.
            ↳ jar"
358         ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\juh.
            ↳ jar"
359
360         ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$OO_HOMEprogram"
361         StrCmp "" $LO_HOME RemOfficeReg LOFound
362
363     SearchLibreOffice:
364         ; wurde LibreOffice gefunden?

```

```

365     StrCmp "" $LO_HOME Done LOFound
366
367 ; ja, loesche die Daten
368 LOFound:
369     KillProcDLL::KillProc "soffice.exe"
370     KillProcDLL::KillProc "soffice.bin"
371
372     Rmdir /r "$LO_HOMEBasis\share\Scripts\javascript\HowtoCreateApiInfo"
373     Rmdir /r "$LO_HOMEBasis\share\Scripts\oorexx"
374     Rmdir /r "$LO_HOMEBasis\share\Scripts\python\pythonSamples"
375
376     ExecWait "$LO_HOMEprogram\unopkg.exe remove --shared
        ↳ ScriptProviderForooRexx.oxt"
377
378     Delete "$LO_HOMEprogram\BSF4ooRexx.dll"
379     Delete "$LO_HOMEprogram\BSF.CLS"
380     Delete "$LO_HOMEprogram\UNO.CLS"
381     Delete "$LO_HOMEprogram\UNO_API_info.rxo"
382     Delete "$LO_HOMEprogram\UNO_CREATE_INTERFACE_LIST.RXO"
383     Delete "$LO_HOMEprogram\UNO_ReflectionUtil.cls"
384     Delete "$LO_HOMEprogram\UNO_XINTERFACES.RXO"
385
386     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEprogram\"
387     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEBasis\program\
        ↳ classes\unoil.jar"
388     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\ridl.
        ↳ jar"
389     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\jurt.
        ↳ jar"
390     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\juh.
        ↳ jar"
391
392     ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$LO_HOMEprogram"
393     Goto RemOfficeReg
394
395 RemOfficeReg:
396     DeleteRegKey HKCR ".RXO"
397     DeleteRegKey HKCR "RexxOOoScript"
398     DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx-java-ooo"
399     Goto Done
400
401 Done:
402     SetRegView 64
403     DeleteRegKey ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
404     SetRegView 32
405     DeleteRegKey HKCR ".JREXX"
406     DeleteRegKey HKCR ".ORX"
407     DeleteRegKey HKCR ".REXX"
408     DeleteRegKey HKCR ".REXXJ"

```

```

409 DeleteRegKey HKCR ".RXJ"
410 DeleteRegKey HKCR ".TESTGROUP"
411 DeleteRegKey HKCR ".TESTUNIT"
412 DeleteRegKey HKCR "RexxJavaScript"
413 DeleteRegKey HKCR ".CLS"
414 DeleteRegKey HKCR ".rex"
415 DeleteRegKey HKCU "Software\Microsoft\Windows\CurrentVersion\
    ↳ Explorer\FileExts\.rxj"
416 DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx"
417 DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx-java"
418
419 WriteRegStr HKCR "REXXScript" "" "ooRexx Rexx Progam"
420 WriteRegStr HKCR "REXXScript\DefaultIcon" "" "$REXX_HOME\rexx.exe,0"
421
422 ExecWait "$INSTDIR\install\associationChanged.exe"
423
424 RMDir /r "$INSTDIR"
425 RMDir /r "$SMPROGRAMS\BSF4ooRexx"
426 RMDir "$INSTDIR"
427 RMDir "$SMPROGRAMS\BSF4ooRexx"
428
429 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-rexx-
    ↳ engine.jar"
430 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-v400
    ↳ -20090910.jar"
431
432 ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$INSTDIR"
433
434 SetRegView 64
435 ReadRegStr $1 HKLM "SOFTWARE\JavaSoft\Java Runtime Environment\1.6"
    ↳ "RuntimeLib"
436 ${un.StrRep} $2 "$1" "\jvm.dll" ""
437 ${un.StrRep} $2 "$2" "client" "server"
438 ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$2"
439
440 SetAutoClose true
441 SectionEnd
442
443 ; Ueberpruefung ob Java bzw. ooRexx installiert ist und
444 ; sucht den OpenOffice/LibreOffice Ordner
445 Function .onInit
446     Push $0
447     Push $1
448     Push $2
449     InitPluginsDir
450
451     Call getBSFVersion
452     GetVersion::WindowsPlatformArchitecture
453     Pop $WINDOWS_ARCHITECTURE ;32 oder 64

```

6 Appendix

```
454 StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
455
456 x64:
457     Call FindooRexx
458     StrCmp "" $REXX_INSTALLATION_MSG REXXSuccess REXXNoSuccess
459     Goto FindBSF
460 x32:
461     MessageBox MB_OK|MB_ICONEXCLAMATION "You need a 64 bit Windows to
        ↳ start this installer."
462     Abort
463
464 REXXSuccess:
465     Call FindJava
466     StrCmp "" $JAVA_INSTALLATION_MSG JavaSuccess JavaNoSuccess
467
468 JavaSuccess:
469     Call FindOpenOffice
470     Call FindLibreOffice
471     Goto FindBSF
472
473 JavaNoSuccess:
474     MessageBox MB_OK|MB_ICONEXCLAMATION $JAVA_INSTALLATION_MSG
475     Goto Error
476
477 REXXNoSuccess:
478     MessageBox MB_OK|MB_ICONEXCLAMATION $REXX_INSTALLATION_MSG
479     Goto Error
480
481 FindBSF:
482     SetRegView 64
483     ReadRegStr $0 ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
        ↳ "DisplayName"
484     ReadRegStr $1 ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
        ↳ "DisplayVersion"
485     SetRegView 32
486     StrCmp $0 "^(^Name)" FoundBSF
487     Goto Done
488
489 FoundBSF:
490     IfSilent jump_if_silent jump_if_not_silent
491
492     jump_if_not_silent:
493         MessageBox MB_ICONQUESTION|MB_YESNO "Version $1 of
            ↳ BSF4ooRexx is installed. You have to uninstall it
            ↳ before installing this version. Would you like to
            ↳ uninstall it?" IDNO err
494
495     jump_if_silent:
496
```

```

497     ExecWait '$INSTDIR\uninst.exe' /S _?=$INSTDIR'
498     Goto Done
499 err:
500     MessageBox MB_OK|MB_ICONEXCLAMATION "The installation was aborted
        ↳ ."
501     Abort
502
503 Error:
504     RMDir /r "$INSTDIR"
505     Abort
506
507 Done:
508     Pop $2
509     Pop $1
510     Pop $0
511 FunctionEnd
512
513 ; setzt PRODUCT_VERSION
514 Function getBSFVersion
515     Push $0
516
517     SetOutPath "$INSTDIR"
518     File ".$getBSFVersion.rex"
519     File ".$BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
520     ExecWait "rexx getBSFVersion.rex"
521
522     FileOpen $0 "$INSTDIR\BSFVersion.txt" r
523     FileRead $0 $PRODUCT_VERSION
524     FileClose $0
525
526     Delete "$INSTDIR\getBSFVersion.rex"
527     Delete "$INSTDIR\BSF.CLS"
528     Delete "$INSTDIR\BSFVersion.txt"
529
530     Pop $0
531 FunctionEnd
532
533 Function un.getBSFVersion
534     Push $0
535
536     SetOutPath "$INSTDIR"
537     File ".$getBSFVersion.rex"
538     File ".$BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
539     ExecWait "rexx getBSFVersion.rex"
540
541     FileOpen $0 "$INSTDIR\BSFVersion.txt" r
542     FileRead $0 $PRODUCT_VERSION
543     FileClose $0
544

```

```

545     Delete "$INSTDIR\getBSFVersion.rex"
546     Delete "$INSTDIR\BSF.CLS"
547     Delete "$INSTDIR\BSFVersion.txt"
548
549     Pop $0
550 FunctionEnd
551
552 ; sucht installierte Java-Version
553 Function FindJava
554     Push $0
555     Push $1
556
557     SetOutPath "$INSTDIR"
558     File ".\java_version.rex"
559     ExecWait "rexx java_version.rex bitness" $0
560     ExecWait "rexx java_version.rex version" $1
561     Delete "$INSTDIR\java_version.rex"
562     StrCmp $0 "64" CheckVersion JavaVerNotCorrect
563
564     CheckVersion:
565         StrCmp $1 "1" Done JavaVerNotCorrect
566
567     JavaVerNotCorrect:
568         StrCpy $JAVA_INSTALLATION_MSG "You need Java version 1.4 (64 bit)
569         ↪ or newer to run this program."
570
571     Done:
572         Pop $1
573         Pop $0
574 FunctionEnd
575
576 ; sucht installiertes ooRexx
577 Function FindooRexx
578     Push $0
579     Push $1
580     Push $2
581     Push $3
582
583     ReadRegStr $REXX_VER HKLM "Software\Microsoft\Windows\CurrentVersion\
584     ↪ Uninstall\ooRexx" "DisplayVersion"
585     StrCmp "" "$REXX_VER" REXXNotPresent
586
587     ReadRegStr $0 HKLM "SYSTEM\CurrentControlSet\Control\Session Manager\
588     ↪ Environment" "REXX_HOME"
589     StrCmp "" $0 REXXNotPresent CheckRexxVer
590
591     REXXNotPresent:
592         StrCpy $REXX_INSTALLATION_MSG "ooRexx is not installed on your
593         ↪ computer. You need version 4.0.1 (64 bit) or newer to run
594         ↪ this program."

```



```

589         Goto Done
590
591     CheckRexxVer:
592         GetFullPathName /SHORT $REXX_HOME "$0"
593         StrCpy $0 $REXX_VER 1 0
594         StrCpy $1 $REXX_VER 1 2
595         StrCpy $2 $REXX_VER 1 4
596         StrCpy $REXX_VER "$0$1$2"
597         IntCmp 401 $REXX_VER FoundCorrectRexxVer FoundCorrectRexxVer
598             ↪ RexxVerNotCorrect
599
600     FoundCorrectRexxVer:
601         IfFileExists "$REXX_HOME\rexx.exe" CheckRexxBitness
602             ↪ RexxNotPresent
603
604     CheckRexxBitness:
605         SetOutPath "$INSTDIR"
606         File ".\rexx_version.rex"
607         ExecWait "rexx rexx_version.rex" $3
608         Delete "$INSTDIR\rexx_version.rex"
609         StrCmp $3 "64" Done RexxVerNotCorrect
610
611     RexxVerNotCorrect:
612         StrCpy $REXX_INSTALLATION_MSG "The version of ooRexx installed on
613             ↪ your computer is $0.$1.$2 ($3 bit). Version 4.0.1 (64 bit)
614             ↪ or newer is required to run this program."
615
616     Done:
617         Pop $3
618         Pop $2
619         Pop $1
620         Pop $0
621     FunctionEnd
622
623 ; sucht installiertes OpenOffice
624 Function FindOpenOffice
625     Push $0
626
627     ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\OpenOffice.org\Layers\
628         ↪ OpenOffice.org\3" "OFFICEINSTALLLOCATION"
629     StrCmp "" $0 OO_2 Done
630
631     OO_2:
632         ReadRegStr $0 HKLM "SOFTWARE\OpenOffice.org\Layers\OpenOffice.org
633             ↪ \3" "OFFICEINSTALLLOCATION"
634         StrCmp "" $0 Done OOFound
635
636     OOFound:
637         GetFullPathName $OO_HOME "$0" ; /SHORT entfernt

```

```

632         Goto Done
633
634     Done:
635         Pop $0
636 FunctionEnd
637
638 Function un.FindOpenOffice
639     Push $0
640
641     ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\OpenOffice.org\Layers\
        ↳ OpenOffice.org\3" "OFFICEINSTALLLOCATION"
642     StrCmp "" $0 OO_2 Done
643
644     OO_2:
645         ReadRegStr $0 HKLM "SOFTWARE\OpenOffice.org\Layers\OpenOffice.org
        ↳ \3" "OFFICEINSTALLLOCATION"
646         StrCmp "" $0 Done OOFound
647
648     OOFound:
649         GetFullPathName $OO_HOME "$0" ; /SHORT entfernt
650         Goto Done
651
652     Done:
653         Pop $0
654 FunctionEnd
655
656 ; sucht installiertes OpenOffice
657 Function FindLibreOffice
658     Push $0
659
660     ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\LibreOffice\Layers_
        ↳ LibreOffice\3" "OFFICEINSTALLLOCATION"
661     StrCmp "" $0 LO_2 Done
662
663     LO_2:
664         ReadRegStr $0 HKLM "SOFTWARE\LibreOffice\Layers_\LibreOffice\3" "
        ↳ OFFICEINSTALLLOCATION"
665         StrCmp "" $0 Done LOFound
666
667     LOFound:
668         GetFullPathName $LO_HOME "$0" ; /SHORT entfernt
669         Goto Done
670
671     Done:
672         Pop $0
673 FunctionEnd
674
675 Function un.FindLibreOffice
676     Push $0

```

```

677
678 ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\LibreOffice\Layers_\
    ↳ LibreOffice\3" "OFFICEINSTALLLOCATION"
679 StrCmp "" $0 LO_2 Done
680
681 LO_2:
682 ReadRegStr $0 HKLM "SOFTWARE\LibreOffice\Layers_\LibreOffice\3" "
    ↳ OFFICEINSTALLLOCATION"
683 StrCmp "" $0 Done LOFound
684
685 LOFound:
686 GetFullPathName $LO_HOME "$0" ; /SHORT entfernt
687 Goto Done
688
689 Done:
690 Pop $0
691 FunctionEnd

```

Listing 33: The NSIS Installation Script for 64bit Windows.

6.2.3 The NSIS Reinstall Script for 32 bit Windows

```

1 ; Name: BSF4ooRexx_x64_reinstall.nsi
2 ; Purpose: NSIS reinstall script for BSF4ooRexx (32 bit)
3 ; Author: Juergen Hesse, Manuel Paar
4 ; Version: 1.0
5 ;
6 ; ----- Apache Version 2.0 license
    ↳ -----
7 ; Copyright (C) 2011 Juergen Hesse, Manuel Paar
8 ;
9 ; Licensed under the Apache License, Version 2.0 (the "License");
10 ; you may not use this file except in compliance with the License.
11 ; You may obtain a copy of the License at
12 ;
13 ; http://www.apache.org/licenses/LICENSE-2.0
14 ;
15 ; Unless required by applicable law or agreed to in writing, software
16 ; distributed under the License is distributed on an "AS IS" BASIS,
17 ; WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    ↳ implied.
18 ; See the License for the specific language governing permissions and
19 ; limitations under the License.
20 ;
    ↳ -----
    ↳

```

```

21
22 !include "MUI.nsh"
23 !include "EnvVarUpdate.nsh"
24
25 !define PRODUCT_NAME "BSF4ooRexx"
26 !define PRODUCT_UNINST_KEY "Software\Microsoft\Windows\CurrentVersion\
    ↳ Uninstall\${PRODUCT_NAME}"
27 !define PRODUCT_UNINST_ROOT_KEY "HKLM"
28
29 SetCompressor lzma
30
31 ; MUI Settings
32 !define MUI_ABORTWARNING
33 !define MUI_ICON ".\BSF4ooRexx_install\bsf4oorexx\install\images\windows\
    ↳ bsf4oorexx.ico"
34 !define MUI_UNICON ".\BSF4ooRexx_install\bsf4oorexx\install\images\
    ↳ windows\bsf4oorexx.ico"
35
36 ; Uninstaller pages
37 !insertmacro MUI_UNPAGE_INSTFILES
38
39 ; Language files
40 !insertmacro MUI_LANGUAGE "English"
41
42 ; Reserve files
43 !insertmacro MUI_RESERVEFILE_INSTALLOPTIONS
44
45 Var JAVA_INSTALLATION_MSG
46 Var REXX_HOME
47 Var REXX_VER
48 Var REXX_INSTALLATION_MSG
49 Var OO_HOME
50 Var LO_HOME
51 Var WINDOWS_ARCHITECTURE
52 Var SYSDRIVE
53 Var PRODUCT_VERSION
54
55 Name "${PRODUCT_NAME} $PRODUCT_VERSION"
56 OutFile "BSF4ooRexx_Setup_x32_reinstall.exe"
57 InstallDir "$PROGRAMFILES\BSF4ooRexx"
58 XPStyle on ; wenn XP, dann XP-Style verwenden
59 ShowInstDetails show
60 ShowUnInstDetails show
61
62 Section "BSF4ooRexx" SEC01
63     SetShellVarContext all
64     SetAutoClose true
65     SetOverwrite ifnewer
66

```

6 Appendix

```
67 ; uninstall old version
68 ExecWait '$INSTDIR\uninst.exe' /S _?=$INSTDIR'
69
70 SetOutPath "$INSTDIR"
71 File ".\BSF4ooRexx_install\bsf4oorexx\addLinks200oSnippets.rxo"
72 File ".\BSF4ooRexx_install\bsf4oorexx\ApacheLicense2.0.txt"
73 File ".\BSF4ooRexx_install\bsf4oorexx\asm_LICENSE.TXT"
74 File ".\BSF4ooRexx_install\bsf4oorexx\bsf-rexx-engine.jar"
75 File ".\BSF4ooRexx_install\bsf4oorexx\bsf-v400-20090910.jar"
76 File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
77 File ".\BSF4ooRexx_install\bsf4oorexx\install\32\BSF4ooRexx.dll" ; 32
    ↳ oder 64 Bit
78 File ".\BSF4ooRexx_install\bsf4oorexx\BSF_OnTheFly.cls"
79 File ".\BSF4ooRexx_install\bsf4oorexx\credits.txt"
80 File ".\BSF4ooRexx_install\bsf4oorexx\janino_LICENSE.TXT"
81 File ".\BSF4ooRexx_install\bsf4oorexx\refcardBSF4ooRexx.pdf"
82 File ".\BSF4ooRexx_install\bsf4oorexx\refcard00o.pdf"
83 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2-32.sh"
84 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2-64.sh"
85 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.sh"
86 File ".\BSF4ooRexx_install\bsf4oorexx\rgf_util2.rex"
87 File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
88 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
89 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
90 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
91 File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
92 CopyFiles "$SYSDRIVE\BSF4ooRexx_Setup_x32_reinstall.exe" "$INSTDIR"
93 Delete "$SYSDRIVE\BSF4ooRexx_Setup_x32_reinstall.exe"
94
95 File /r ".\BSF4ooRexx_install\bsf4oorexx\information"
96 File /r ".\BSF4ooRexx_install\bsf4oorexx\install"
97 File /r ".\BSF4ooRexx_install\bsf4oorexx\samples"
98 File /r ".\BSF4ooRexx_install\bsf4oorexx\Templates"
99 File /r ".\BSF4ooRexx_install\bsf4oorexx\utilities"
100
101 CreateDirectory "$SMPROGRAMS\BSF4ooRexx"
102 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\GUI REXXTry Program (ooRexxTry.
    ↳ rxj).lnk" "$INSTDIR\utilities\ooRexxTry.rxj" "" "$INSTDIR\install
    ↳ \images\windows\oorexxtry.ico"
103 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Information (ReleaseNotes,
    ↳ introductions to ooRexx, BSF4ooRexx overview).lnk" "$INSTDIR\
    ↳ information"
104
105 CreateDirectory "$SMPROGRAMS\BSF4ooRexx\Installation"
106 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\BSF4ooRexx Download
    ↳ Page.lnk" "http://sourceforge.net/projects/bsf4oorexx/"
107
108 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Samples (simple to comprehensive
    ↳ BSF4ooRexx examples).lnk" "$INSTDIR\samples"
```

```

109 CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Utilities (some platform-
    ↳ independent utility scripts).lnk" "$INSTDIR\utilities"
110
111 WriteRegStr HKCR ".JREXX" "" "RexxJavaScript"
112 WriteRegStr HKCR ".JREXX" "Content Type" "text/x-rexx-java"
113 WriteRegStr HKCR ".JREXX" "PerceivedType" "text"
114
115 WriteRegStr HKCR ".ORX" "" "REXXScript"
116 WriteRegStr HKCR ".ORX" "Content Type" "text/x-rexx"
117 WriteRegStr HKCR ".ORX" "PerceivedType" "text"
118
119 WriteRegStr HKCR ".REXX" "" "REXXScript"
120 WriteRegStr HKCR ".REXX" "Content Type" "text/x-rexx"
121 WriteRegStr HKCR ".REXX" "PerceivedType" "text"
122
123 WriteRegStr HKCR ".REXXJ" "" "RexxJavaScript"
124 WriteRegStr HKCR ".REXXJ" "Content Type" "text/x-rexx-java"
125 WriteRegStr HKCR ".REXXJ" "PerceivedType" "text"
126
127 WriteRegStr HKCR ".RXJ" "" "RexxJavaScript"
128 WriteRegStr HKCR ".RXJ" "Content Type" "text/x-rexx-java"
129 WriteRegStr HKCR ".RXJ" "PerceivedType" "text"
130 WriteRegStr HKCR ".RXJ\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ RexxJavaScript (Rexx script using Java) executed by ooRexx.rxj"
131
132 WriteRegStr HKCR ".TESTGROUP" "" "REXXScript"
133 WriteRegStr HKCR ".TESTGROUP" "Content Type" "text/x-rexx"
134 WriteRegStr HKCR ".TESTGROUP" "PerceivedType" "text"
135
136 WriteRegStr HKCR ".TESTUNIT" "" "REXXScript"
137 WriteRegStr HKCR ".TESTUNIT" "Content Type" "text/x-rexx"
138 WriteRegStr HKCR ".TESTUNIT" "PerceivedType" "text"
139
140 WriteRegStr HKCR "RexxJavaScript" "" "RexxJavaScript (Rexx script using
    ↳ Java) executed by ooRexx"
141 WriteRegStr HKCR "RexxJavaScript\DefaultIcon" "" "$INSTDIR\install\
    ↳ images\windows\bsf4oorexx.ico,0"
142 WriteRegStr HKCR "RexxJavaScript\shell" "" "open"
143 WriteRegStr HKCR "RexxJavaScript\shell\edit" "" "Edit"
144 WriteRegStr HKCR "RexxJavaScript\shell\edit\command" "" 'notepad.exe "
    ↳ %1"'
145 WriteRegStr HKCR "RexxJavaScript\shell\open" "" "Run"
146 WriteRegStr HKCR "RexxJavaScript\shell\open\command" "" '$REXX_HOME\
    ↳ rexx.exe "%1" %*'
147
148 WriteRegStr HKCR ".CLS" "" "REXXScript"
149 WriteRegStr HKCR ".CLS" "Content Type" "text/x-rexx"
150 WriteRegStr HKCR ".CLS" "PerceivedType" "text"
151

```

```

152 DeleteRegKey HKCR ".rex"
153 WriteRegStr HKCR ".rex" "" "REXXScript"
154 WriteRegStr HKCR ".rex" "Content Type" "text/x-rexx"
155 WriteRegStr HKCR ".rex" "PerceivedType" "text"
156 WriteRegStr HKCR ".rex\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ REXXScript (Rexx script) executed by ooRexx.rex"
157
158 DeleteRegKey HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj"
159 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithList" "a" "rexx.exe"
160 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithList" "MRUList" "a"
161 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithProgids" "RexxJavaScript" ""
162
163 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx" "Extension" "
    ↳ .rex"
164 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx-java" "
    ↳ Extension" ".rxj"
165
166 WriteRegStr HKCR "REXXScript" "" "RexxScript (Rexx script) executed by
    ↳ ooRexx"
167 WriteRegStr HKCR "REXXScript\DefaultIcon" "" "$INSTDIR\install\images\
    ↳ windows\oorexx.ico,0"
168 WriteRegStr HKCR "REXXScript\shell" "" "open"
169 WriteRegStr HKCR "REXXScript\shell\edit" "" "Edit"
170 WriteRegStr HKCR "REXXScript\shell\edit\command" "" 'notepad.exe "%1"'
171 WriteRegStr HKCR "REXXScript\shell\open" "" "Run"
172 WriteRegStr HKCR "REXXScript\shell\open\command" "" '$REXX_HOME\rexx.
    ↳ exe" "%1" %*'
173
174 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$INSTDIR\bsf-rexx-engine.jar
    ↳ "
175 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$INSTDIR\bsf-v400-20090910.
    ↳ jar"
176
177 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$INSTDIR"
178
179 StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
180
181 x64:
182     ReadRegStr $1 HKLM "SOFTWARE\Wow6432Node\JavaSoft\Java Runtime
        ↳ Environment\1.6" "RuntimeLib"
183     File ".\rexxj.cmd"
184     File ".\rexxj2.cmd"
185     Goto AddJavaRuntimeLib
186
187 x32:

```

```

188 ReadRegStr $1 HKLM "SOFTWARE\JavaSoft\Java Runtime Environment\1.6"
    ↳ "RuntimeLib"
189 File "/oname=rexxj.cmd" ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.cmd"
    ↳ "
190 File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.cmd"
191 Goto AddJavaRuntimeLib
192
193 AddJavaRuntimeLib:
194     ${StrRep} $2 "$1" "\jvm.dll" ""
195     ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$2"
196
197 ; wurde OpenOffice gefunden?
198 StrCmp "" $OO_HOME SearchLibreOffice OoFound
199
200 ; ja, kopier die notwendigen Daten
201 OoFound:
202     KillProcDLL::KillProc "soffice.exe"
203     KillProcDLL::KillProc "soffice.bin"
204     SetOutPath "$OO_HOMEprogram"
205     File ".\BSF4ooRexx_install\bsf4oorexx\install\32\BSF4ooRexx.dll" ;
        ↳ 32 oder 64 Bit
206     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
207     File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
208     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
209     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
210     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
211     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
212
213     SetOutPath "$OO_HOMEBasis\share\Scripts\javascript"
214     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \javascript\HowtoCreateApiInfo"
215
216     SetOutPath "$OO_HOMEBasis\share\Scripts"
217     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \oorexx"
218
219     SetOutPath "$OO_HOMEBasis\share\Scripts\python"
220     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \python\pythonSamples"
221
222     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEprogram\"
223     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEBasis\program\
        ↳ classes\unoil.jar"
224     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\ridl.jar
        ↳ "
225     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\jurt.jar
        ↳ "
226     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\juh.jar"
227

```



```

228     ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$OO_HOMEprogram"
229
230     SetOutPath "$INSTDIR\install"
231     ExecWait '$OO_HOMEprogram\unopkg.exe' add --shared
        ↳ ScriptProviderForooRexx.oxt'
232     StrCmp "" $LO_HOME AddOfficeReg LOFound
233
234 SearchLibreOffice:
235     ; wurde LibreOffice gefunden?
236     StrCmp "" $LO_HOME Done LOFound
237
238 ; ja, kopier die notwendigen Daten
239 LOFound:
240     KillProcDLL::KillProc "soffice.exe"
241     KillProcDLL::KillProc "soffice.bin"
242     SetOutPath $LO_HOME"program"
243     File ".\BSF4ooRexx_install\bsf4oorexx\install\32\BSF4ooRexx.dll" ;
        ↳ 32 oder 64 Bit
244     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
245     File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
246     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
247     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
248     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
249     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
250
251     SetOutPath "$LO_HOMEBasis\share\Scripts\javascript"
252     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \javascript\HowtoCreateApiInfo"
253
254     SetOutPath "$LO_HOMEBasis\share\Scripts"
255     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \oorexx"
256
257     SetOutPath "$LO_HOMEBasis\share\Scripts\python"
258     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \python\pythonSamples"
259
260     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEprogram\"
261     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEBasis\program\
        ↳ classes\unoil.jar"
262     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\ridl.jar
        ↳ "
263     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\jurt.jar
        ↳ "
264     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\juh.jar"
265
266     ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$LO_HOMEprogram"
267
268     SetOutPath "$INSTDIR\install"

```

```

269     ExecWait '$LO_HOMEprogram\unopkg.exe' add --shared
        ↳ ScriptProviderForooRexx.ext'
270     Goto AddOfficeReg
271
272 AddOfficeReg:
273     WriteRegStr HKCR ".RXO" "" "RexxOOoScript"
274     WriteRegStr HKCR ".RXO" "Content Type" "text/x-rexx-java-ooo"
275     WriteRegStr HKCR ".RXO" "PerceivedType" "text"
276     WriteRegStr HKCR ".RXO\ShellNew" "FileName" "$INSTDIR\Templates\
        ↳ RexxOOoScript (Rexx script using OpenOffice.org) executed by
        ↳ ooRexx.rxo"
277
278     WriteRegStr HKCR "RexxOOoScript" "" "RexxOOoScript (Rexx script
        ↳ using OpenOffice.org/LibreOffice) executed by ooRexx"
279     WriteRegStr HKCR "RexxOOoScript\DefaultIcon" "" "$INSTDIR\install\
        ↳ images\windows\oorexx4ooo.ico,0"
280     WriteRegStr HKCR "RexxOOoScript\shell" "" "open"
281     WriteRegStr HKCR "RexxOOoScript\shell\edit" "" "Edit"
282     WriteRegStr HKCR "RexxOOoScript\shell\edit\command" "" 'notepad.exe
        ↳ "%1"'
283     WriteRegStr HKCR "RexxOOoScript\shell\open" "" "Run"
284     WriteRegStr HKCR "RexxOOoScript\shell\open\command" "" '$REXX_HOME\
        ↳ rexx.exe' "%1" %*'
285
286     WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx-java-ooo" "
        ↳ Extension" ".rxo"
287     Goto Done
288 Done:
289     ExecWait "$INSTDIR\install\associationChanged.exe"
290     MessageBox MB_ICONINFORMATION|MB_OK "$(^Name) was successfully
        ↳ reinstalled."
291 SectionEnd
292
293 Section -AdditionalIcons
294     CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Uninstall
        ↳ BSF4ooRexx.lnk" "$INSTDIR\uninst.exe" "" "$INSTDIR\install\images
        ↳ \windows\bsf4oorexx.ico"
295     CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Reinstall
        ↳ BSF4ooRexx.lnk" "$INSTDIR\BSF4ooRexx_Setup_x32_reinstall.exe" ""
        ↳ "$INSTDIR\install\images\windows\bsf4oorexx.ico"
296 SectionEnd
297
298 Section -Post
299     WriteUninstaller "$INSTDIR\uninst.exe"
300     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ DisplayName" "$(^Name)"
301     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
        ↳ UninstallString" "$INSTDIR\uninst.exe"

```

```

302 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ DisplayIcon" "$INSTDIR\install\images\windows\bsf4oorexx.ico"
303 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ DisplayVersion" "$PRODUCT_VERSION"
304 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ NoRepair" 0
305 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ NoModify" 0
306 WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" "
    ↳ ModifyPath" "$INSTDIR\BSF4ooRexx_Setup_x32_reinstall.exe"
307 SectionEnd
308
309
310 Function un.onUninstSuccess
311     IfSilent jump_if_silent jump_if_not_silent
312
313     jump_if_not_silent:
314         HideWindow
315         MessageBox MB_ICONINFORMATION|MB_OK "$(^Name) was successfully
            ↳ uninstalled." IDOK
316
317     jump_if_silent:
318
319 FunctionEnd
320
321 Function un.onInit
322     Call un.getBSFVersion
323     IfSilent jump_if_silent jump_if_not_silent
324
325     jump_if_not_silent:
326         MessageBox MB_ICONQUESTION|MB_YESNO|MB_DEFBUTTON2 "Do you want to
            ↳ uninstall $(^Name) and all the components?" IDYES +2
327         Abort
328
329     jump_if_silent:
330
331 FunctionEnd
332
333 Section Uninstall
334     SetShellVarContext all
335
336     ; wurde OpenOffice(LibreOffice gefunden?
337     Call un.FindOpenOffice
338     Call un.FindLibreOffice
339     StrCmp "" $OO_HOME SearchLibreOffice OOFound
340
341     ; ja, loesche die Daten
342     OOFound:
343         KillProcDLL::KillProc "soffice.exe"

```

```

344 KillProcDLL::KillProc "soffice.bin"
345
346 RMDir /r "$OO_HOMEBasis\share\Scripts\javascript\HowtoCreateApiInfo"
347 RMDir /r "$OO_HOMEBasis\share\Scripts\oorexx"
348 RMDir /r "$OO_HOMEBasis\share\Scripts\python\pythonSamples"
349
350 ExecWait "$OO_HOMEprogram\unopkg.exe remove --shared
    ↳ ScriptProviderForooRexx.oxt"
351
352 Delete "$OO_HOMEprogram\BSF4ooRexx.dll"
353 Delete "$OO_HOMEprogram\BSF.CLS"
354 Delete "$OO_HOMEprogram\UNO.CLS"
355 Delete "$OO_HOMEprogram\UNO_API_info.rxo"
356 Delete "$OO_HOMEprogram\UNO_CREATE_INTERFACE_LIST.RXO"
357 Delete "$OO_HOMEprogram\UNO_ReflectionUtil.cls"
358 Delete "$OO_HOMEprogram\UNO_XINTERFACES.RXO"
359
360 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEprogram\"
361 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEBasis\program\
    ↳ classes\unoil.jar"
362 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\ridl.
    ↳ jar"
363 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\jurt.
    ↳ jar"
364 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\juh.
    ↳ jar"
365
366 ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$OO_HOMEprogram"
367 StrCmp "" $LO_HOME RemOfficeReg LOFound
368
369 SearchLibreOffice:
370     ; wurde LibreOffice gefunden?
371     StrCmp "" $LO_HOME Done LOFound
372
373     ; ja, loesche die Daten
374 LOFound:
375     KillProcDLL::KillProc "soffice.exe"
376     KillProcDLL::KillProc "soffice.bin"
377
378 RMDir /r "$LO_HOMEBasis\share\Scripts\javascript\HowtoCreateApiInfo"
379 RMDir /r "$LO_HOMEBasis\share\Scripts\oorexx"
380 RMDir /r "$LO_HOMEBasis\share\Scripts\python\pythonSamples"
381
382 ExecWait "$LO_HOMEprogram\unopkg.exe remove --shared
    ↳ ScriptProviderForooRexx.oxt"
383
384 Delete "$LO_HOMEprogram\BSF4ooRexx.dll"
385 Delete "$LO_HOMEprogram\BSF.CLS"
386 Delete "$LO_HOMEprogram\UNO.CLS"

```

```

387 Delete "$LO_HOMEprogram\UNO_API_info.rxo"
388 Delete "$LO_HOMEprogram\UNO_CREATE_INTERFACE_LIST.RXO"
389 Delete "$LO_HOMEprogram\UNO_ReflectionUtil.cls"
390 Delete "$LO_HOMEprogram\UNO_XINTERFACES.RXO"
391
392 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEprogram\"
393 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEBasis\program\
    ↳ classes\unoil.jar"
394 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\ridl.
    ↳ jar"
395 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\jurt.
    ↳ jar"
396 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\juh.
    ↳ jar"
397
398 ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$LO_HOMEprogram"
399 Goto RemOfficeReg
400
401 RemOfficeReg:
402 DeleteRegKey HKCR ".RXO"
403 DeleteRegKey HKCR "RexxOOoScript"
404 DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx-java-ooo"
405 Goto Done
406
407 Done:
408 StrCmp $WINDOWS_ARCHITECTURE "64" OS64 OS32
409
410 OS64:
411 SetRegView 64
412
413 OS32:
414 DeleteRegKey ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
415 SetRegView 32
416 DeleteRegKey HKCR ".JREXX"
417 DeleteRegKey HKCR ".ORX"
418 DeleteRegKey HKCR ".REXX"
419 DeleteRegKey HKCR ".REXXJ"
420 DeleteRegKey HKCR ".RXJ"
421 DeleteRegKey HKCR ".TESTGROUP"
422 DeleteRegKey HKCR ".TESTUNIT"
423 DeleteRegKey HKCR "RexxJavaScript"
424 DeleteRegKey HKCR ".CLS"
425 DeleteRegKey HKCR ".rex"
426 DeleteRegKey HKCU "Software\Microsoft\Windows\CurrentVersion\
    ↳ Explorer\FileExts\.rxj"
427 DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx"
428 DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx-java"
429
430 WriteRegStr HKCR "REXXScript" "" "ooRexx Rexx Program"

```

```

431 WriteRegStr HKCR "REXXScript\DefaultIcon" "" "$REXX_HOME\rexx.exe,0"
432
433 ExecWait "$INSTDIR\install\associationChanged.exe"
434
435 RMDir /r "$INSTDIR"
436 RMDir /r "$SMPROGRAMS\BSF4ooRexx"
437 RMDir "$INSTDIR"
438 RMDir "$SMPROGRAMS\BSF4ooRexx"
439
440 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-rexx-
    ↳ engine.jar"
441 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-v400
    ↳ -20090910.jar"
442
443 ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$INSTDIR"
444
445 StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
446
447 x64:
448     ReadRegStr $1 HKLM "SOFTWARE\Wow6432Node\JavaSoft\Java Runtime
    ↳ Environment\1.6" "RuntimeLib"
449     Goto RemJavaRuntimeLib
450
451 x32:
452     ReadRegStr $1 HKLM "SOFTWARE\JavaSoft\Java Runtime Environment
    ↳ \1.6" "RuntimeLib"
453     Goto RemJavaRuntimeLib
454
455 RemJavaRuntimeLib:
456     ${un.StrRep} $2 "$1" "\jvm.dll" ""
457     ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$2"
458
459     SetAutoClose false
460 SectionEnd
461
462 ; Ueberpruefung ob Java bzw. ooRexx installiert ist und
463 ; sucht den OpenOffice/LibreOffice Ordner
464 Function .onInit
465     ReadEnvStr $SYSDRIVE SYSTEMDRIVE
466     InitPluginsDir
467
468     GetVersion::WindowsPlatformArchitecture
469     Pop $WINDOWS_ARCHITECTURE ;32 oder 64
470
471     Call getBSFVersion
472     Call FindooRexx
473     StrCmp "" $REXX_INSTALLATION_MSG REXXSuccess REXXNoSuccess
474
475     REXXSuccess:

```

```

476         Call FindJava
477         StrCmp "" $JAVA_INSTALLATION_MSG JavaSuccess JavaNoSuccess
478
479     JavaSuccess:
480         Call FindOpenOffice
481         Call FindLibreOffice
482         Goto Done
483
484     JavaNoSuccess:
485         MessageBox MB_OK|MB_ICONEXCLAMATION $JAVA_INSTALLATION_MSG
486         Goto Error
487
488     REXXNoSuccess:
489         MessageBox MB_OK|MB_ICONEXCLAMATION $REXX_INSTALLATION_MSG
490         Goto Error
491
492     Error:
493         RMDir /r "$INSTDIR"
494         Abort
495
496     Done:
497 FunctionEnd
498
499 ; setzt PRODUCT_VERSION
500 Function getBSFVersion
501     Push $0
502
503     SetOutPath "$INSTDIR"
504     File ".\getBSFVersion.rex"
505     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
506     ExecWait "rexx getBSFVersion.rex"
507
508     FileOpen $0 "$INSTDIR\BSFVersion.txt" r
509     FileRead $0 $PRODUCT_VERSION
510     FileClose $0
511
512     Delete "$INSTDIR\getBSFVersion.rex"
513     Delete "$INSTDIR\BSF.CLS"
514     Delete "$INSTDIR\BSFVersion.txt"
515
516     Pop $0
517 FunctionEnd
518
519 Function un.getBSFVersion
520     Push $0
521
522     SetOutPath "$INSTDIR"
523     File ".\getBSFVersion.rex"
524     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"

```

```

525     ExecWait "rexx getBSFVersion.rex"
526
527     FileOpen $0 "$INSTDIR\BSFVersion.txt" r
528     FileRead $0 $PRODUCT_VERSION
529     FileClose $0
530
531     Delete "$INSTDIR\getBSFVersion.rex"
532     Delete "$INSTDIR\BSF.CLS"
533     Delete "$INSTDIR\BSFVersion.txt"
534
535     Pop $0
536 FunctionEnd
537
538 ; sucht installierte Java-Version
539 Function FindJava
540     Push $0
541     Push $1
542
543     SetOutPath "$INSTDIR"
544     File ".\java_version.rex"
545     ExecWait "rexx java_version.rex bitness" $0
546     ExecWait "rexx java_version.rex version" $1
547     Delete "$INSTDIR\java_version.rex"
548     StrCmp $0 "64" JavaVerNotCorrect CheckVersion
549
550     CheckVersion:
551         StrCmp $1 "1" Done JavaVerNotCorrect
552
553     JavaVerNotCorrect:
554         StrCpy $JAVA_INSTALLATION_MSG "You need Java version 1.4 (32 bit)
555         ↪ or newer to run this program."
556
557     Done:
558         Pop $1
559         Pop $0
560 FunctionEnd
561
562 ; sucht installiertes ooRexx
563 Function FindooRexx
564     Push $0
565     Push $1
566     Push $2
567     Push $3
568
569     ReadRegStr $REXX_VER HKLM "Software\Microsoft\Windows\CurrentVersion\
570     ↪ Uninstall\ooRexx" "DisplayVersion"
571
572     StrCmp "" "$REXX_VER" REXXNotPresent
573
574     ReadRegStr $0 HKLM "SYSTEM\CurrentControlSet\Control\Session Manager\
575     ↪ Environment" "REXX_HOME"

```



```

571 StrCmp "" %0 REXXNotPresent CheckREXXVer
572
573 REXXNotPresent:
574     StrCpy $REXX_INSTALLATION_MSG "ooRexx is not installed on your
        ↳ computer. You need version 4.0.1 (32 bit) or newer to run
        ↳ this program."
575     Goto Done
576
577 CheckREXXVer:
578     GetFullPathName /SHORT $REXX_HOME "%0"
579     StrCpy %0 $REXX_VER 1 0
580     StrCpy %1 $REXX_VER 1 2
581     StrCpy %2 $REXX_VER 1 4
582     StrCpy $REXX_VER "%0%1%2"
583     IntCmp 401 $REXX_VER FoundCorrectREXXVer FoundCorrectREXXVer
        ↳ REXXVerNotCorrect
584
585 FoundCorrectREXXVer:
586     IfFileExists "$REXX_HOME\rexx.exe" CheckREXXBitness
        ↳ REXXNotPresent
587
588 CheckREXXBitness:
589     SetOutPath "$INSTDIR"
590     File ".\rexx_version.rex"
591     ExecWait "rexx rexx_version.rex" %3
592     Delete "$INSTDIR\rexx_version.rex"
593     StrCmp %3 "32" Done REXXVerNotCorrect
594
595 REXXVerNotCorrect:
596     StrCpy $REXX_INSTALLATION_MSG "The version of ooRexx installed on
        ↳ your computer is %0.%1.%2 (%3 bit). Version 4.0.1 (32 bit)
        ↳ or newer is required to run this program."
597
598 Done:
599     Pop %3
600     Pop %2
601     Pop %1
602     Pop %0
603 FunctionEnd
604
605 ; sucht installiertes OpenOffice
606 Function FindOpenOffice
607     Push %0
608
609     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
610
611     x64:
612     ReadRegStr %0 HKLM "SOFTWARE\Wow6432Node\OpenOffice.org\Layers\
        ↳ OpenOffice.org\3" "OFFICEINSTALLLOCATION"

```

```

613         StrCmp "" $0 Done OoFound
614
615     x32:
616         ReadRegStr $0 HKLM "SOFTWARE\OpenOffice.org\Layers\OpenOffice.org
        ↳ \3" "OFFICEINSTALLLOCATION"
617         StrCmp "" $0 Done OoFound
618
619     OoFound:
620         GetFullPathName $OO_HOME "$0" ; /SHORT entfernt
621         Goto Done
622
623     Done:
624         Pop $0
625 FunctionEnd
626
627 Function un.FindOpenOffice
628     Push $0
629
630     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
631
632     x64:
633         ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\OpenOffice.org\Layers\
        ↳ OpenOffice.org\3" "OFFICEINSTALLLOCATION"
634         StrCmp "" $0 Done OoFound
635
636     x32:
637         ReadRegStr $0 HKLM "SOFTWARE\OpenOffice.org\Layers\OpenOffice.org
        ↳ \3" "OFFICEINSTALLLOCATION"
638         StrCmp "" $0 Done OoFound
639
640     OoFound:
641         GetFullPathName $OO_HOME "$0" ; /SHORT entfernt
642         Goto Done
643
644     Done:
645         Pop $0
646 FunctionEnd
647
648 ; sucht installiertes LibreOffice
649 Function FindLibreOffice
650     Push $0
651
652     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
653
654     x64:
655         ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\LibreOffice\Layers_
        ↳ LibreOffice\3" "OFFICEINSTALLLOCATION"
656         StrCmp "" $0 Done LOFound
657

```

```

658     x32:
659         ReadRegStr $0 HKLM "SOFTWARE\LibreOffice\Layers_\LibreOffice\3" "
            ↳ OFFICEINSTALLLOCATION"
660         StrCmp "" $0 Done LOFound
661
662     LOFound:
663         GetFullPathName $LO_HOME "$0" ; /SHORT entfernt
664         Goto Done
665
666     Done:
667         Pop $0
668 FunctionEnd
669
670 Function un.FindLibreOffice
671     Push $0
672
673     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
674
675     x64:
676         ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\LibreOffice\Layers_\
            ↳ LibreOffice\3" "OFFICEINSTALLLOCATION"
677         StrCmp "" $0 Done LOFound
678
679     x32:
680         ReadRegStr $0 HKLM "SOFTWARE\LibreOffice\Layers_\LibreOffice\3" "
            ↳ OFFICEINSTALLLOCATION"
681         StrCmp "" $0 Done LOFound
682
683     LOFound:
684         GetFullPathName $LO_HOME "$0" ; /SHORT entfernt
685         Goto Done
686
687     Done:
688         Pop $0
689 FunctionEnd

```

Listing 34: The NSIS Reinstall Script for 32bit Windows.

6.2.4 The NSIS Reinstall Script for 64 bit Windows

```

1 ; Name: BSF4ooRexx_x64_reinstall.nsi
2 ; Purpose: NSIS reinstall script for BSF4ooRexx (64 bit)
3 ; Author: Juergen Hesse, Manuel Paar
4 ; Version: 1.0
5 ;

```

```

6 ; ----- Apache Version 2.0 license
   ↳ -----
7 ;   Copyright (C) 2011 Juergen Hesse, Manuel Paar
8 ;
9 ;   Licensed under the Apache License, Version 2.0 (the "License");
10 ;   you may not use this file except in compliance with the License.
11 ;   You may obtain a copy of the License at
12 ;
13 ;       http://www.apache.org/licenses/LICENSE-2.0
14 ;
15 ;   Unless required by applicable law or agreed to in writing, software
16 ;   distributed under the License is distributed on an "AS IS" BASIS,
17 ;   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   ↳ implied.
18 ;   See the License for the specific language governing permissions and
19 ;   limitations under the License.
20 ;
   ↳ -----
   ↳
21
22 !include "MUI.nsh"
23 !include "EnvVarUpdate.nsh"
24
25 !define PRODUCT_NAME "BSF4ooRexx"
26 !define PRODUCT_UNINST_KEY "Software\Microsoft\Windows\CurrentVersion\
   ↳ Uninstall\${PRODUCT_NAME}"
27 !define PRODUCT_UNINST_ROOT_KEY "HKLM"
28
29 SetCompressor lzma
30
31 ; MUI Settings
32 !define MUI_ABORTWARNING
33 !define MUI_ICON ".\BSF4ooRexx_install\bsf4oorexx\install\images\windows\
   ↳ bsf4oorexx.ico"
34 !define MUI_UNICON ".\BSF4ooRexx_install\bsf4oorexx\install\images\
   ↳ windows\bsf4oorexx.ico"
35
36 ; Uninstaller pages
37 !insertmacro MUI_UNPAGE_INSTFILES
38
39 ; Language files
40 !insertmacro MUI_LANGUAGE "English"
41
42 ; Reserve files
43 !insertmacro MUI_RESERVEFILE_INSTALLOPTIONS
44
45 Var JAVA_INSTALLATION_MSG
46 Var REXX_HOME
47 Var REXX_VER

```

```

48 Var REXX_INSTALLATION_MSG
49 Var OO_HOME
50 Var LO_HOME
51 Var WINDOWS_ARCHITECTURE
52 Var SYSDRIVE
53 Var PRODUCT_VERSION
54
55 Name "${PRODUCT_NAME} $PRODUCT_VERSION"
56 OutFile "BSF4ooRexx_Setup_x64_reinstall.exe"
57 InstallDir "$PROGRAMFILES64\BSF4ooRexx"
58 XPStyle on          ; wenn XP, dann XP-Style verwenden
59 ShowInstDetails show
60 ShowUnInstDetails show
61
62 Section "BSF4ooRexx" SEC01
63   SetShellVarContext all
64   SetAutoClose true
65   SetOverwrite ifnewer
66
67   ; uninstall old version
68   ExecWait '$INSTDIR\uninst.exe' /S _?=$INSTDIR'
69
70   SetOutPath "$INSTDIR"
71   File ".\BSF4ooRexx_install\bsf4oorexx\addLinks200oSnippets.rxo"
72   File ".\BSF4ooRexx_install\bsf4oorexx\ApacheLicense2.0.txt"
73   File ".\BSF4ooRexx_install\bsf4oorexx\asm_LICENSE.TXT"
74   File ".\BSF4ooRexx_install\bsf4oorexx\bsf-rexx-engine.jar"
75   File ".\BSF4ooRexx_install\bsf4oorexx\bsf-v400-20090910.jar"
76   File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
77   File ".\BSF4ooRexx_install\bsf4oorexx\install\64\BSF4ooRexx.dll" ; 32
       ↪ oder 64 Bit
78   File ".\BSF4ooRexx_install\bsf4oorexx\BSF_OnTheFly.cls"
79   File ".\BSF4ooRexx_install\bsf4oorexx\credits.txt"
80   File ".\BSF4ooRexx_install\bsf4oorexx\janino_LICENSE.TXT"
81   File ".\BSF4ooRexx_install\bsf4oorexx\refcardBSF4ooRexx.pdf"
82   File ".\BSF4ooRexx_install\bsf4oorexx\refcardOOo.pdf"
83   File "/oname=rexxj.cmd" ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.cmd"
84   File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.cmd"
85   File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2-32.sh"
86   File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2-64.sh"
87   File ".\BSF4ooRexx_install\bsf4oorexx\rexxj2.sh"
88   File ".\BSF4ooRexx_install\bsf4oorexx\rgf_util2.rex"
89   File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
90   File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
91   File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
92   File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
93   File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
94   CopyFiles "$SYSDRIVE\BSF4ooRexx_Setup_x64_reinstall.exe" "$INSTDIR"
95   Delete "$SYSDRIVE\BSF4ooRexx_Setup_x64_reinstall.exe"

```

```

96
97 File /r ".\BSF4ooRexx_install\bsf4oorexx\information"
98 File /r ".\BSF4ooRexx_install\bsf4oorexx\install"
99 File /r ".\BSF4ooRexx_install\bsf4oorexx\samples"
100 File /r ".\BSF4ooRexx_install\bsf4oorexx\Templates"
101 File /r ".\BSF4ooRexx_install\bsf4oorexx\utilities"
102
103 CreateDirectory "$SMPROGRAMS\BSF4ooRexx"
104 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\GUI RexxTry Program (ooRexxTry.
    ↳ rxj).lnk" "$INSTDIR\utilities\ooRexxTry.rxj" "" "$INSTDIR\install
    ↳ \images\windows\oorexxtry.ico"
105 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\Information (ReleaseNotes,
    ↳ introductions to ooRexx, BSF4ooRexx overview).lnk" "$INSTDIR\
    ↳ information"
106
107 CreateDirectory "$SMPROGRAMS\BSF4ooRexx\Installation"
108 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\Installation\BSF4ooRexx Download
    ↳ Page.lnk" "http://sourceforge.net/projects/bsf4oorexx/"
109
110 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\Samples (simple to comprehensive
    ↳ BSF4ooRexx examples).lnk" "$INSTDIR\samples"
111 CreateShortcut "$SMPROGRAMS\BSF4ooRexx\Utilities (some platform-
    ↳ independent utility scripts).lnk" "$INSTDIR\utilities"
112
113 WriteRegStr HKCR ".JREXX" "" "RexxJavaScript"
114 WriteRegStr HKCR ".JREXX" "Content Type" "text/x-rexx-java"
115 WriteRegStr HKCR ".JREXX" "PerceivedType" "text"
116
117 WriteRegStr HKCR ".ORX" "" "REXXScript"
118 WriteRegStr HKCR ".ORX" "Content Type" "text/x-rexx"
119 WriteRegStr HKCR ".ORX" "PerceivedType" "text"
120
121 WriteRegStr HKCR ".REXX" "" "REXXScript"
122 WriteRegStr HKCR ".REXX" "Content Type" "text/x-rexx"
123 WriteRegStr HKCR ".REXX" "PerceivedType" "text"
124
125 WriteRegStr HKCR ".REXXJ" "" "RexxJavaScript"
126 WriteRegStr HKCR ".REXXJ" "Content Type" "text/x-rexx-java"
127 WriteRegStr HKCR ".REXXJ" "PerceivedType" "text"
128
129 WriteRegStr HKCR ".rxj" "" "RexxJavaScript"
130 WriteRegStr HKCR ".rxj" "Content Type" "text/x-rexx-java"
131 WriteRegStr HKCR ".rxj" "PerceivedType" "text"
132 WriteRegStr HKCR ".rxj\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ RexxJavaScript (Rexx script using Java) executed by ooRexx.rxj"
133
134 WriteRegStr HKCR ".TESTGROUP" "" "REXXScript"
135 WriteRegStr HKCR ".TESTGROUP" "Content Type" "text/x-rexx"
136 WriteRegStr HKCR ".TESTGROUP" "PerceivedType" "text"

```

```

137
138 WriteRegStr HKCR ".TESTUNIT" "" "REXXScript"
139 WriteRegStr HKCR ".TESTUNIT" "Content Type" "text/x-rexx"
140 WriteRegStr HKCR ".TESTUNIT" "PerceivedType" "text"
141
142 WriteRegStr HKCR "RexxJavaScript" "" "RexxJavaScript (Rexx script using
    ↳ Java) executed by ooRexx"
143 WriteRegStr HKCR "RexxJavaScript\DefaultIcon" "" "$INSTDIR\install\
    ↳ images\windows\bsf4oorexx.ico,0"
144 WriteRegStr HKCR "RexxJavaScript\shell" "" "open"
145 WriteRegStr HKCR "RexxJavaScript\shell\edit" "" "Edit"
146 WriteRegStr HKCR "RexxJavaScript\shell\edit\command" "" 'notepad.exe "
    ↳ %1"'
147 WriteRegStr HKCR "RexxJavaScript\shell\open" "" "Run"
148 WriteRegStr HKCR "RexxJavaScript\shell\open\command" "" '$REXX_HOME\
    ↳ rexx.exe "%1" %*'
149
150 WriteRegStr HKCR ".CLS" "" "REXXScript"
151 WriteRegStr HKCR ".CLS" "Content Type" "text/x-rexx"
152 WriteRegStr HKCR ".CLS" "PerceivedType" "text"
153
154 DeleteRegKey HKCR ".rex"
155 WriteRegStr HKCR ".rex" "" "REXXScript"
156 WriteRegStr HKCR ".rex" "Content Type" "text/x-rexx"
157 WriteRegStr HKCR ".rex" "PerceivedType" "text"
158 WriteRegStr HKCR ".rex\ShellNew" "FileName" "$INSTDIR\Templates\
    ↳ REXXScript (Rexx script) executed by ooRexx.rex"
159
160 DeleteRegKey HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj"
161 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithList" "a" "rexx.exe"
162 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithList" "MRUList" "a"
163 WriteRegStr HKCU "Software\Microsoft\Windows\CurrentVersion\Explorer\
    ↳ FileExts\.rxj\OpenWithProgids" "RexxJavaScript" ""
164
165 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx" "Extension" "
    ↳ .rex"
166 WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx-java" "
    ↳ Extension" ".rxj"
167
168 WriteRegStr HKCR "REXXScript" "" "RexxScript (Rexx script) executed by
    ↳ ooRexx"
169 WriteRegStr HKCR "REXXScript\DefaultIcon" "" "$INSTDIR\install\images\
    ↳ windows\oorexx.ico,0"
170 WriteRegStr HKCR "REXXScript\shell" "" "open"
171 WriteRegStr HKCR "REXXScript\shell\edit" "" "Edit"
172 WriteRegStr HKCR "REXXScript\shell\edit\command" "" 'notepad.exe "%1"'

```

```

173 WriteRegStr HKCR "REXXScript\shell\open" "" "Run"
174 WriteRegStr HKCR "REXXScript\shell\open\command" "" /"$REXX_HOME\rexx.
    ↳ exe" "%1" %*"
175
176 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$INSTDIR\bsf-rexx-engine.jar
    ↳ "
177 ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$INSTDIR\bsf-v400-20090910.
    ↳ jar"
178
179 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$INSTDIR"
180
181 SetRegView 64
182 ReadRegStr $1 HKLM "SOFTWARE\JavaSoft\Java Runtime Environment\1.6" "
    ↳ RuntimeLib"
183 ${StrRep} $2 "$1" "\jvm.dll" ""
184 ${StrRep} $2 "$2" "client" "server"
185 ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$2"
186
187 ; wurde OpenOffice gefunden?
188 StrCmp "" $OO_HOME SearchLibreOffice OoFound
189
190 ; ja, kopier die notwendigen Daten
191 OoFound:
192     KillProcDLL::KillProc "soffice.exe"
193     KillProcDLL::KillProc "soffice.bin"
194     SetOutPath "$OO_HOMEprogram"
195     File ".\BSF4ooRexx_install\bsf4oorexx\install\64\BSF4ooRexx.dll" ;
        ↳ 32 oder 64 Bit
196     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
197     File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
198     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
199     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
200     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
201     File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
202
203     SetOutPath "$OO_HOMEBasis\share\Scripts\javascript"
204     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \javascript\HowtoCreateApiInfo"
205
206     SetOutPath "$OO_HOMEBasis\share\Scripts"
207     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \oorexx"
208
209     SetOutPath "$OO_HOMEBasis\share\Scripts\python"
210     File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \python\pythonSamples"
211
212     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEprogram\"

```



```

213     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEBasis\program\
        ↳ classes\unoil.jar"
214     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\ridl.jar
        ↳ "
215     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\jurt.jar
        ↳ "
216     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$OO_HOMEURE\java\juh.jar"
217
218     ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$OO_HOMEprogram"
219
220     SetOutPath "$INSTDIR\install"
221     ExecWait '$OO_HOMEprogram\unopkg.exe' add --shared
        ↳ ScriptProviderForooRexx.oxt'
222     StrCmp "" $LO_HOME AddOfficeReg LOFound
223
224     SearchLibreOffice:
225         ; wurde LibreOffice gefunden?
226         StrCmp "" $LO_HOME Done LOFound
227
228     ; ja, kopier die notwendigen Daten
229     LOFound:
230         KillProcDLL::KillProc "soffice.exe"
231         KillProcDLL::KillProc "soffice.bin"
232         SetOutPath $LO_HOME"program"
233         File ".\BSF4ooRexx_install\bsf4oorexx\install\64\BSF4ooRexx.dll" ;
        ↳ 32 oder 64 Bit
234         File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
235         File ".\BSF4ooRexx_install\bsf4oorexx\UNO.CLS"
236         File ".\BSF4ooRexx_install\bsf4oorexx\UNO_API_info.rxo"
237         File ".\BSF4ooRexx_install\bsf4oorexx\UNO_CREATE_INTERFACE_LIST.RXO"
238         File ".\BSF4ooRexx_install\bsf4oorexx\UNO_ReflectionUtil.cls"
239         File ".\BSF4ooRexx_install\bsf4oorexx\UNO_XINTERFACES.RXO"
240
241         SetOutPath "$LO_HOMEBasis\share\Scripts\javascript"
242         File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \javascript\HowtoCreateApiInfo"
243
244         SetOutPath "$LO_HOMEBasis\share\Scripts"
245         File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \oorexx"
246
247         SetOutPath "$LO_HOMEBasis\share\Scripts\python"
248         File /r ".\BSF4ooRexx_install\bsf4oorexx\install\OOo_ScriptLibraries
        ↳ \python\pythonSamples"
249
250     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEprogram\"
251     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEBasis\program\
        ↳ classes\unoil.jar"

```

```

252     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\ridl.jar
        ↳ "
253     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\jurt.jar
        ↳ "
254     ${EnvVarUpdate} $0 "CLASSPATH" "A" "HKLM" "$LO_HOMEURE\java\juh.jar"
255
256     ${EnvVarUpdate} $0 "PATH" "A" "HKLM" "$LO_HOMEprogram"
257
258     SetOutPath "$INSTDIR\install"
259     ExecWait '$LO_HOMEprogram\unopkg.exe' add --shared
        ↳ ScriptProviderForooRexx.oxt'
260     Goto AddOfficeReg
261
262 AddOfficeReg:
263     WriteRegStr HKCR ".RXO" "" "RexxOOoScript"
264     WriteRegStr HKCR ".RXO" "Content Type" "text/x-rexx-java-ooo"
265     WriteRegStr HKCR ".RXO" "PerceivedType" "text"
266     WriteRegStr HKCR ".RXO\ShellNew" "FileName" "$INSTDIR\Templates\
        ↳ RexxOOoScript (Rexx script using OpenOffice.org) executed by
        ↳ ooRexx.rxo"
267
268     WriteRegStr HKCR "RexxOOoScript" "" "RexxOOoScript (Rexx script
        ↳ using OpenOffice.org/LibreOffice) executed by ooRexx"
269     WriteRegStr HKCR "RexxOOoScript\DefaultIcon" "" "$INSTDIR\install\
        ↳ images\windows\oorexx4ooo.ico,0"
270     WriteRegStr HKCR "RexxOOoScript\shell" "" "open"
271     WriteRegStr HKCR "RexxOOoScript\shell\edit" "" "Edit"
272     WriteRegStr HKCR "RexxOOoScript\shell\edit\command" "" 'notepad.exe
        ↳ "%1"'
273     WriteRegStr HKCR "RexxOOoScript\shell\open" "" "Run"
274     WriteRegStr HKCR "RexxOOoScript\shell\open\command" "" '$REXX_HOME\
        ↳ rexx.exe' "%1" %*'
275
276     WriteRegStr HKCR "Mime\Database\Content Type\text/x-rexx-java-ooo" "
        ↳ Extension" ".rxo"
277     Goto Done
278
279 Done:
280     ExecWait "$INSTDIR\install\associationChanged.exe"
281     MessageBox MB_ICONINFORMATION|MB_OK "$(^Name) was successfully
        ↳ reinstalled."
282 SectionEnd
283
284 Section -AdditionalIcons
285     CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Uninstall
        ↳ BSF4ooRexx.lnk" "$INSTDIR\uninst.exe" "" "$INSTDIR\install\images
        ↳ \windows\bsf4oorexx.ico"
286     CreateShortCut "$SMPROGRAMS\BSF4ooRexx\Installation\Reinstall
        ↳ BSF4ooRexx.lnk" "$INSTDIR\BSF4ooRexx_Setup_x64_reinstall.exe" ""

```

```

    ↪ "$INSTDIR\install\images\windows\bsf4oorexx.ico"
287 SectionEnd
288
289 Section -Post
290     WriteUninstaller "$INSTDIR\uninst.exe"
291     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" " "
292         ↪ DisplayName" "$(^Name) "
293     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" " "
294         ↪ UninstallString" "$INSTDIR\uninst.exe"
295     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" " "
296         ↪ DisplayIcon" "$INSTDIR\install\images\windows\bsf4oorexx.ico"
297     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" " "
298         ↪ DisplayVersion" "$PRODUCT_VERSION"
299     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" " "
300         ↪ NoRepair" 0
301     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" " "
302         ↪ NoModify" 0
303     WriteRegStr ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}" " "
304         ↪ ModifyPath" "$INSTDIR\BSF4ooRexx_Setup_x64_reinstall.exe"
305 SectionEnd
306
307 Function un.onUninstSuccess
308     IfSilent jump_if_silent jump_if_not_silent
309
310     jump_if_not_silent:
311         HideWindow
312         MessageBox MB_ICONINFORMATION|MB_OK "$(^Name) was successfully
313             ↪ uninstalled." IDOK
314
315     jump_if_silent:
316
317 FunctionEnd
318
319 Function un.onInit
320     Call un.getBSFVersion
321     IfSilent jump_if_silent jump_if_not_silent
322
323     jump_if_not_silent:
324         MessageBox MB_ICONQUESTION|MB_YESNO|MB_DEFBUTTON2 "Do you want to
325             ↪ uninstall $(^Name) and all the components?" IDYES +2
326         Abort
327
328     jump_if_silent:
329
330 FunctionEnd
331
332 Section Uninstall
333     SetShellVarContext all
334
335

```

```

326 ; wurde OpenOffice/LibreOffice gefunden?
327 Call un.FindOpenOffice
328 Call un.FindLibreOffice
329 StrCmp "" $OO_HOME SearchLibreOffice OOFound
330
331 ; ja, loesche die Daten
332 OOFound:
333     KillProcDLL::KillProc "soffice.exe"
334     KillProcDLL::KillProc "soffice.bin"
335
336     Rmdir /r "$OO_HOMEBasis\share\Scripts\javascript\HowtoCreateApiInfo"
337     Rmdir /r "$OO_HOMEBasis\share\Scripts\oorexx"
338     Rmdir /r "$OO_HOMEBasis\share\Scripts\python\pythonSamples"
339
340     ExecWait "$OO_HOMEprogram\unopkg.exe remove --shared
        ↳ ScriptProviderForooRexx.oxt"
341
342     Delete "$OO_HOMEprogram\BSF4ooRexx.dll"
343     Delete "$OO_HOMEprogram\BSF.CLS"
344     Delete "$OO_HOMEprogram\UNO.CLS"
345     Delete "$OO_HOMEprogram\UNO_API_info.rxo"
346     Delete "$OO_HOMEprogram\UNO_CREATE_INTERFACE_LIST.RXO"
347     Delete "$OO_HOMEprogram\UNO_ReflectionUtil.cls"
348     Delete "$OO_HOMEprogram\UNO_XINTERFACES.RXO"
349
350     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEprogram\"
351     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEBasis\program\
        ↳ classes\unoil.jar"
352     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\ridl.
        ↳ jar"
353     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\jurt.
        ↳ jar"
354     ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$OO_HOMEURE\java\juh.
        ↳ jar"
355
356     ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$OO_HOMEprogram"
357     StrCmp "" $LO_HOME RemOfficeReg LOFound
358
359 SearchLibreOffice:
360     ; wurde LibreOffice gefunden?
361     StrCmp "" $LO_HOME Done LOFound
362
363 ; ja, loesche die Daten
364 LOFound:
365     KillProcDLL::KillProc "soffice.exe"
366     KillProcDLL::KillProc "soffice.bin"
367
368     Rmdir /r "$LO_HOMEBasis\share\Scripts\javascript\HowtoCreateApiInfo"
369     Rmdir /r "$LO_HOMEBasis\share\Scripts\oorexx"

```

```

370 Rmdir /r "$LO_HOMEBasis\share\Scripts\python\pythonSamples"
371
372 ExecWait "$LO_HOMEprogram\unopkg.exe remove --shared
    ↳ ScriptProviderForooRexx.oxt"
373
374 Delete "$LO_HOMEprogram\BSF4ooRexx.dll"
375 Delete "$LO_HOMEprogram\BSF.CLS"
376 Delete "$LO_HOMEprogram\UNO.CLS"
377 Delete "$LO_HOMEprogram\UNO_API_info.rxo"
378 Delete "$LO_HOMEprogram\UNO_CREATE_INTERFACE_LIST.RXO"
379 Delete "$LO_HOMEprogram\UNO_ReflectionUtil.cls"
380 Delete "$LO_HOMEprogram\UNO_XINTERFACES.RXO"
381
382 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEprogram\"
383 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEBasis\program\
    ↳ classes\unoil.jar"
384 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\ridl.
    ↳ jar"
385 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\jurt.
    ↳ jar"
386 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$LO_HOMEURE\java\juh.
    ↳ jar"
387
388 ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$LO_HOMEprogram"
389 Goto RemOfficeReg
390
391 RemOfficeReg:
392 DeleteRegKey HKCR ".RXO"
393 DeleteRegKey HKCR "RexxOOoScript"
394 DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx-java-ooo"
395 Goto Done
396
397 Done:
398 SetRegView 64
399 DeleteRegKey ${PRODUCT_UNINST_ROOT_KEY} "${PRODUCT_UNINST_KEY}"
400 SetRegView 32
401 DeleteRegKey HKCR ".JREXX"
402 DeleteRegKey HKCR ".ORX"
403 DeleteRegKey HKCR ".REXX"
404 DeleteRegKey HKCR ".REXXJ"
405 DeleteRegKey HKCR ".RXJ"
406 DeleteRegKey HKCR ".TESTGROUP"
407 DeleteRegKey HKCR ".TESTUNIT"
408 DeleteRegKey HKCR "RexxJavaScript"
409 DeleteRegKey HKCR ".CLS"
410 DeleteRegKey HKCR ".rex"
411 DeleteRegKey HKCU "Software\Microsoft\Windows\CurrentVersion\
    ↳ Explorer\FileExts\.rxj"
412 DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx"

```

```

413 DeleteRegKey HKCR "Mime\Database\Content Type\text/x-rexx-java"
414
415 WriteRegStr HKCR "REXXScript" "" "ooRexx Rexx Progam"
416 WriteRegStr HKCR "REXXScript\DefaultIcon" "" "$REXX_HOME\rexx.exe,0"
417
418 ExecWait "$INSTDIR\install\associationChanged.exe"
419
420 RMDir /r "$INSTDIR"
421 RMDir /r "$SMPROGRAMS\BSF4ooRexx"
422 RMDir "$INSTDIR"
423 RMDir "$SMPROGRAMS\BSF4ooRexx"
424
425 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-rexx-
    ↳ engine.jar"
426 ${un.EnvVarUpdate} $0 "CLASSPATH" "R" "HKLM" "$INSTDIR\bsf-v400
    ↳ -20090910.jar"
427
428 ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$INSTDIR"
429
430 SetRegView 64
431 ReadRegStr $1 HKLM "SOFTWARE\JavaSoft\Java Runtime Environment\1.6"
    ↳ "RuntimeLib"
432 ${un.StrRep} $2 "$1" "\jvm.dll" ""
433 ${un.StrRep} $2 "$2" "client" "server"
434 ${un.EnvVarUpdate} $0 "PATH" "R" "HKLM" "$2"
435
436 SetAutoClose true
437 SectionEnd
438
439 ; Ueberpruefung ob Java bzw. ooRexx installiert ist und
440 ; sucht den OpenOffice/LibreOffice Ordner
441 Function .onInit
442     ReadEnvStr $SYSDRIVE SYSTEMDRIVE
443     InitPluginsDir
444
445     Call getBSFVersion
446     GetVersion::WindowsPlatformArchitecture
447     Pop $WINDOWS_ARCHITECTURE ;32 oder 64
448     StrCmp $WINDOWS_ARCHITECTURE "64" x64 x32
449
450     x64:
451         Call FindooRexx
452         StrCmp "" $REXX_INSTALLATION_MSG REXXSuccess REXXNoSuccess
453         Goto Done
454     x32:
455         MessageBox MB_OK|MB_ICONEXCLAMATION "You need a 64 bit Windows to
            ↳ start this installer."
456         Abort
457

```

```

458 RexxSuccess:
459     Call FindJava
460     StrCmp "" $JAVA_INSTALLATION_MSG JavaSuccess JavaNoSuccess
461
462 JavaSuccess:
463     ; Reinstaller sichern
464     CopyFiles "$INSTDIR\BSF4ooRexx_Setup_x64_reinstall.exe" "
         ↳ $SYSDRIVE\"
465     Call FindOpenOffice
466     Call FindLibreOffice
467     Goto Done
468
469 JavaNoSuccess:
470     MessageBox MB_OK|MB_ICONEXCLAMATION $JAVA_INSTALLATION_MSG
471     Goto Error
472
473 RexxNoSuccess:
474     MessageBox MB_OK|MB_ICONEXCLAMATION $REXX_INSTALLATION_MSG
475     Goto Error
476
477 Error:
478     RMDir /r "$INSTDIR"
479     Abort
480
481 Done:
482 FunctionEnd
483
484 ; setzt PRODUCT_VERSION
485 Function getBSFVersion
486     Push $0
487
488     SetOutPath "$INSTDIR"
489     File ".\getBSFVersion.rex"
490     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
491     ExecWait "rexex getBSFVersion.rex"
492
493     FileOpen $0 "$INSTDIR\BSFVersion.txt" r
494     FileRead $0 $PRODUCT_VERSION
495     FileClose $0
496
497     Delete "$INSTDIR\getBSFVersion.rex"
498     Delete "$INSTDIR\BSF.CLS"
499     Delete "$INSTDIR\BSFVersion.txt"
500
501     Pop $0
502 FunctionEnd
503
504 Function un.getBSFVersion
505     Push $0

```

```

506
507     SetOutPath "$INSTDIR"
508     File ".\getBSFVersion.rex"
509     File ".\BSF4ooRexx_install\bsf4oorexx\BSF.CLS"
510     ExecWait "rexx getBSFVersion.rex"
511
512     FileOpen $0 "$INSTDIR\BSFVersion.txt" r
513     FileRead $0 $PRODUCT_VERSION
514     FileClose $0
515
516     Delete "$INSTDIR\getBSFVersion.rex"
517     Delete "$INSTDIR\BSF.CLS"
518     Delete "$INSTDIR\BSFVersion.txt"
519
520     Pop $0
521 FunctionEnd
522
523 ; sucht installierte Java-Version
524 Function FindJava
525     Push $0
526     Push $1
527
528     SetOutPath "$INSTDIR"
529     File ".\java_version.rex"
530     ExecWait "rexx java_version.rex bitness" $0
531     ExecWait "rexx java_version.rex version" $1
532     Delete "$INSTDIR\java_version.rex"
533     StrCmp $0 "64" CheckVersion JavaVerNotCorrect
534
535     CheckVersion:
536         StrCmp $1 "1" Done JavaVerNotCorrect
537
538     JavaVerNotCorrect:
539         StrCpy $JAVA_INSTALLATION_MSG "You need Java version 1.4 (64 bit)
540         ↪ or newer to run this program."
541
542     Done:
543         Pop $1
544         Pop $0
545 FunctionEnd
546
547 ; sucht installiertes ooRexx
548 Function FindooRexx
549     Push $0
550     Push $1
551     Push $2
552     Push $3

```



```

553 ReadRegStr $REXX_VER HKLM "Software\Microsoft\Windows\CurrentVersion\
    ↳ Uninstall\ooRexx" "DisplayVersion"
554 StrCmp "" "$REXX_VER" REXX_NotPresent
555 ReadRegStr $0 HKLM "SYSTEM\CurrentControlSet\Control\Session Manager\
    ↳ Environment" "REXX_HOME"
556 StrCmp "" $0 REXX_NotPresent CheckRexxVer
557
558 REXX_NotPresent:
559     StrCpy $REXX_INSTALLATION_MSG "ooRexx is not installed on your
    ↳ computer. You need version 4.0.1 (64 bit) or newer to run
    ↳ this program."
560     Goto Done
561
562 CheckRexxVer:
563     GetFullPathName /SHORT $REXX_HOME "$0"
564     StrCpy $0 $REXX_VER 1 0
565     StrCpy $1 $REXX_VER 1 2
566     StrCpy $2 $REXX_VER 1 4
567     StrCpy $REXX_VER "$0$1$2"
568     IntCmp 401 $REXX_VER FoundCorrectRexxVer FoundCorrectRexxVer
    ↳ REXX_VerNotCorrect
569
570 FoundCorrectRexxVer:
571     IfFileExists "$REXX_HOME\rexx.exe" CheckRexxBitness
    ↳ REXX_NotPresent
572
573 CheckRexxBitness:
574     SetOutPath "$INSTDIR"
575     File ".\rexx_version.rex"
576     ExecWait "rexx rexx_version.rex" $3
577     Delete "$INSTDIR\rexx_version.rex"
578     StrCmp $3 "64" Done REXX_VerNotCorrect
579
580 REXX_VerNotCorrect:
581     StrCpy $REXX_INSTALLATION_MSG "The version of ooRexx installed on
    ↳ your computer is $0.$1.$2 ($3 bit). Version 4.0.1 (64 bit)
    ↳ or newer is required to run this program."
582
583 Done:
584     Pop $3
585     Pop $2
586     Pop $1
587     Pop $0
588 FunctionEnd
589
590 ; sucht installiertes OpenOffice
591 Function FindOpenOffice
592     Push $0
593

```

```

594 ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\OpenOffice.org\Layers\
    ↳ OpenOffice.org\3" "OFFICEINSTALLLOCATION"
595 StrCmp "" $0 OO_2 Done
596
597 OO_2:
598 ReadRegStr $0 HKLM "SOFTWARE\OpenOffice.org\Layers\OpenOffice.org
    ↳ \3" "OFFICEINSTALLLOCATION"
599 StrCmp "" $0 Done OOFound
600
601 OOFound:
602 GetFullPathName $OO_HOME "$0" ; /SHORT entfernt
603 Goto Done
604
605 Done:
606 Pop $0
607 FunctionEnd
608
609 Function un.FindOpenOffice
610 Push $0
611
612 ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\OpenOffice.org\Layers\
    ↳ OpenOffice.org\3" "OFFICEINSTALLLOCATION"
613 StrCmp "" $0 OO_2 Done
614
615 OO_2:
616 ReadRegStr $0 HKLM "SOFTWARE\OpenOffice.org\Layers\OpenOffice.org
    ↳ \3" "OFFICEINSTALLLOCATION"
617 StrCmp "" $0 Done OOFound
618
619 OOFound:
620 GetFullPathName $OO_HOME "$0" ; /SHORT entfernt
621 Goto Done
622
623 Done:
624 Pop $0
625 FunctionEnd
626
627 ; sucht installiertes OpenOffice
628 Function FindLibreOffice
629 Push $0
630
631 ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\LibreOffice\Layers_
    ↳ LibreOffice\3" "OFFICEINSTALLLOCATION"
632 StrCmp "" $0 LO_2 Done
633
634 LO_2:
635 ReadRegStr $0 HKLM "SOFTWARE\LibreOffice\Layers_\LibreOffice\3" "
    ↳ OFFICEINSTALLLOCATION"
636 StrCmp "" $0 Done LOFound

```

```

637
638     LOFound:
639         GetFullPathName $LO_HOME "$0" ; /SHORT entfernt
640         Goto Done
641
642     Done:
643         Pop $0
644 FunctionEnd
645
646 Function un.FindLibreOffice
647     Push $0
648
649     ReadRegStr $0 HKLM "SOFTWARE\WoW6432Node\LibreOffice\Layers_\
        ↳ LibreOffice\3" "OFFICEINSTALLLOCATION"
650     StrCmp "" $0 LO_2 Done
651
652     LO_2:
653         ReadRegStr $0 HKLM "SOFTWARE\LibreOffice\Layers_\LibreOffice\3" "
        ↳ OFFICEINSTALLLOCATION"
654         StrCmp "" $0 Done LOFound
655
656     LOFound:
657         GetFullPathName $LO_HOME "$0" ; /SHORT entfernt
658         Goto Done
659
660     Done:
661         Pop $0
662 FunctionEnd

```

Listing 35: The NSIS Reinstall Script for 64 bit Windows

6.2.5 Java Version Check Script

```

1  #!/usr/bin/rexx
2  /* Name: java_version.rex
3     Purpose: Returns the Java version and bitness
4     Author: Juergen Hesse, Manuel Paar
5     Version: 1.0
6
7     ----- Apache Version 2.0 license
8     ↳ -----
9     Copyright (C) 2011 Juergen Hesse, Manuel Paar
10
11     Licensed under the Apache License, Version 2.0 (the "License");
12     you may not use this file except in compliance with the License.
13     You may obtain a copy of the License at

```

```

13
14         http://www.apache.org/licenses/LICENSE-2.0
15
16     Unless required by applicable law or agreed to in writing, software
17     distributed under the License is distributed on an "AS IS" BASIS,
18     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
19         ↪ implied.
20     See the License for the specific language governing permissions and
21     limitations under the License.
22     -----
23     ↪
24 */
25
26 if arg(1) = "bitness" then exit (getJavaBitness())
27
28 exit (getJavaVersion())
29
30 ::routine getJavaVersion
31
32     "java -version 2>&1 | rxqueue"
33     java_ver=0
34     do while queued()>0
35         parse pull 'java version "' val1 "." val2 "."
36         if val1>=1 & val2>=4 then java_ver=1
37     end
38     return java_ver
39
40 ::routine getJavaBitness
41
42     "java -version 2>&1 | rxqueue"
43     bitness=0
44     do while queued()>0
45         parse pull "Java HotSpot(TM) " val " "
46         if val="64-Bit" then bitness=64
47     end
48     return bitness

```

Listing 36: Java version check script.

6.2.6 ooRexx Bitness Check Script

```

1  #!/usr/bin/rexx
2  /* Name: rexx_version.rex
3     Purpose: Returns the ooRexx bitness

```

```

4  Author: Juergen Hesse, Manuel Paar
5  Version: 1.0
6
7  ----- Apache Version 2.0 license
8      ↪ -----
9      Copyright (C) 2011 Juergen Hesse, Manuel Paar
10
11     Licensed under the Apache License, Version 2.0 (the "License");
12     you may not use this file except in compliance with the License.
13     You may obtain a copy of the License at
14
15         http://www.apache.org/licenses/LICENSE-2.0
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18     distributed under the License is distributed on an "AS IS" BASIS,
19     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
20     ↪ implied.
21     See the License for the specific language governing permissions and
22     limitations under the License.
23 -----
24 ↪
25 */
26
27 exit(getRexxBitness())
28
29 ::routine getRexxBitness
30
31     "rexx -v 2>&1 | rxqueue"
32     bitness=0
33     do while queued()>0
34         parse pull hint ":" val .
35         if hint="Addressing Mode" then bitness=val
36     end
37     return bitness

```

Listing 37: ooRexx bitness check script.

6.2.7 Get BSF Version Script

```

1  #!/usr/bin/rexx
2  /* Name: getBSFVersion.rex
3     Purpose: Returns the current version of BSF4ooRexx
4     Author: Juergen Hesse, Manuel Paar
5     Version: 1.0
6

```

```

7  ----- Apache Version 2.0 license
   ↳ -----
8  Copyright (C) 2011 Juergen Hesse, Manuel Paar
9
10 Licensed under the Apache License, Version 2.0 (the "License");
11 you may not use this file except in compliance with the License.
12 You may obtain a copy of the License at
13
14     http://www.apache.org/licenses/LICENSE-2.0
15
16 Unless required by applicable law or agreed to in writing, software
17 distributed under the License is distributed on an "AS IS" BASIS,
18 WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   ↳ implied.
19 See the License for the specific language governing permissions and
20 limitations under the License.
21 -----
   ↳
22 */
23
24 CHAROUT("BSFVersion.txt", getVersion(),1)
25
26 ::routine getVersion
27 'find /n ".bsf4rexx~version" BSF.CLS 2>&1 | rxqueue'
28 do while queued()>0
29     parse pull rest '~version="' version '"'
30     if version <> "" then return version
31 end
32 return version

```

Listing 38: The GetBSFVersion script.

6.2.8 Debian Package control file

```

1 Package: bsf4oorexx
2 Version: 4.0.6.20110531
3 Section: Interpreted Computer Languages
4 Priority: optional
5 Homepage: http://sourceforge.net/projects/bsf4oorexx
6 Maintainer: BSF4ooRexx <bsf4oorexx-devel@lists.sourceforge.net>
7 Architecture: all
8 Description: Bean Scripting Framework for Open Object Rexx (BSF4ooRexx)
9   BSF4ooRexx version for ooRexx 4.0.1 and later exploiting the new ooRexx
   ↳ kernel (e.g. allowing implementing Java methods in ooRexx,
   ↳ callbacks from Java to ooRexx). [Camouflages Java as the
   ↳ dynamically typed, caseless and easy to use ooRexx.]

```

6 Appendix

```
10 Depends: oorexx (>= 4.0.1), openjdk-6-jdk, openjdk-6-jre
11 Recommends: openoffice.org (>= 3.2.0), openoffice.org-calc (>= 3.2.0),
    ↳ openoffice.org-draw (>= 3.2.0), openoffice.org-impress (>= 3.2.0),
    ↳ openoffice.org-writer (>= 3.2.0)
```

Listing 39: The Debian package control file.

6.2.9 Debian Package copyright file

```
1
2             Apache License
3             Version 2.0, January 2004
4             http://www.apache.org/licenses/
5
6 TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
7
8 1. Definitions.
9
10    "License" shall mean the terms and conditions for use, reproduction
11    ↳ ,
12    and distribution as defined by Sections 1 through 9 of this
13    ↳ document.
14
15    "Licensor" shall mean the copyright owner or entity authorized by
16    the copyright owner that is granting the License.
17
18    "Legal Entity" shall mean the union of the acting entity and all
19    other entities that control, are controlled by, or are under common
20    control with that entity. For the purposes of this definition,
21    "control" means (i) the power, direct or indirect, to cause the
22    direction or management of such entity, whether by contract or
23    otherwise, or (ii) ownership of fifty percent (50%) or more of the
24    outstanding shares, or (iii) beneficial ownership of such entity.
25
26    "You" (or "Your") shall mean an individual or Legal Entity
27    exercising permissions granted by this License.
28
29    "Source" form shall mean the preferred form for making
30    ↳ modifications,
31    including but not limited to software source code, documentation
32    source, and configuration files.
33
34    "Object" form shall mean any form resulting from mechanical
35    transformation or translation of a Source form, including but
36    not limited to compiled object code, generated documentation,
37    and conversions to other media types.
```

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148 implied, including, without limitation, any warranties or
149 ↪ conditions
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154 ↪ License.

155 8. Limitation of Liability. In no event and under no legal theory,
156 whether in tort (including negligence), contract, or otherwise,
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158 negligent acts) or agreed to in writing, shall any Contributor be
159 liable to You for damages, including any direct, indirect, special,
160 incidental, or consequential damages of any character arising as a
161 result of this License or out of the use or inability to use the
162 Work (including but not limited to damages for loss of goodwill,
163 work stoppage, computer failure or malfunction, or any and all
164 other commercial damages or losses), even if such Contributor
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```

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171 on Your own behalf and on Your sole responsibility, not on behalf
172 of any other Contributor, and only if You agree to indemnify,
173 defend, and hold each Contributor harmless for any liability
174 incurred by, or claims asserted against, such Contributor by reason
175 of your accepting any such warranty or additional liability.
176

```

```

177 END OF TERMS AND CONDITIONS
178

```

```

179 APPENDIX: How to apply the Apache License to your work.
180

```

```

181 To apply the Apache License to your work, attach the following
182 boilerplate notice, with the fields enclosed by brackets "[]"
183 replaced with your own identifying information. (Don't include
184 the brackets!) The text should be enclosed in the appropriate
185 comment syntax for the file format. We also recommend that a
186 file or class name and description of purpose be included on the
187 same "printed page" as the copyright notice for easier
188 identification within third-party archives.
189

```

```

190 Copyright 2011 by Juergen Hesse and Manuel Paar
191

```

```

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```

```

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    ↪ implied.

```

```

201 See the License for the specific language governing permissions and
202 limitations under the License.

```

Listing 40: The Debian package copyright file.

6.2.10 Debian Package preinst Script

```

1 #!/bin/sh
2

```

```
3 | sudo rm -rf /opt/BSF4ooRexx
```

Listing 41: The Debian preinst file.

6.2.11 Debian Package postinst Script

```
1 | #!/bin/sh
2 |
3 | cd /opt/BSF4ooRexxInstall/bsf4oorexx/install/
4 | sudo rexx /opt/BSF4ooRexxInstall/bsf4oorexx/install/setupAllAndRun.rex
   | ↪ install /@q:
5 |
6 | # rm -rf /opt/BSF4ooRexxInstall
```

Listing 42: The Debian package postinst file.

6.2.12 Debian Package prerm Script

```
1 | #!/bin/sh
2 |
3 | cd /opt/BSF4ooRexx/install
4 | sudo rexx /opt/BSF4ooRexx/install/setupAllAndRun.rex uninstall /@q:
```

Listing 43: The Debian package prerm file.

6.2.13 SPECS File for Red Hat based Linux Distributions

```
1 | Name:                bsf4oorexx
2 | Version:             4.0.6
3 | Release:             20110608
4 | Summary:             Bean Scripting Framework for Open Object REXX (BSF4ooRexx
   | ↪ )
5 |
6 | Group:               Development/Tools
7 | License:             Apache Software License 2.0
8 | URL:                 http://sourceforge.net/projects/bsf4oorexx/
9 | #Source0:
10 | BuildRoot:           %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u
   | ↪ } -n)
```

```

11
12 Autoreq:          0
13 BuildRequires:    unzip
14 Requires:         oorexx >= 4.0.1
15 Requires:         java-1.6.0-openjdk >= 1.6.0
16
17 %description
18 BSF4Rexx version for ooRexx 4.0.1 and later, exploiting the new ooRexx
    ↪ kernel (e.g. allowing implementation of Java methods in ooRexx,
    ↪ callbacks from Java to ooRexx). [Camouflages Java as the
    ↪ dynamically typed, caseless and easy to use ooRexx.]
19
20 %prep
21 unzip -d %{_builddir}/BSF4ooRexxInstall %{_sourcedir}/BSF4ooRexx_install
22
23 %build
24
25 %install
26 rm -rf %{buildroot}
27 mkdir -p %{buildroot}/tmp/
28 cp -r BSF4ooRexxInstall %{buildroot}/tmp/
29
30 %post
31 rm -rf /opt/BSF4ooRexx
32 cp -R %{_sourcedir}/BSF4ooRexxInstall /tmp/
33 #cd /tmp/BSF4ooRexxInstall/bsf4oorexx/install/
34 rexx /tmp/BSF4ooRexxInstall/bsf4oorexx/install/setupAllAndRun.rex install
    ↪ /@q:
35
36 %preun
37 #cd /opt/BSF4ooRexx
38 rexx /opt/BSF4ooRexx/install/setupAllAndRun.rex uninstall /@q:
39
40 %clean
41
42 %files
43 %defattr(-,root,root,-)
44 %doc
45 /tmp/*
46
47 %changelog

```

Listing 44: The RPM package's SPECS file.

6.2.14 The Mac OS X Menu Bar

```

1  /* Name: BSF4ooRexx.java
2     Purpose: Menu bar for ooRexx with BSF4ooRexx
3     Author: Manuel Paar, Juergen Hesse
4     Version: 1.0
5
6     ----- Apache Version 2.0 license
7     ↪ -----
8     Copyright (C) 2011 Manuel Paar, Juergen Hesse
9
10    Licensed under the Apache License, Version 2.0 (the "License");
11    you may not use this file except in compliance with the License.
12    You may obtain a copy of the License at
13
14        http://www.apache.org/licenses/LICENSE-2.0
15
16    Unless required by applicable law or agreed to in writing, software
17    distributed under the License is distributed on an "AS IS" BASIS,
18    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
19    ↪ implied.
20    See the License for the specific language governing permissions and
21    limitations under the License.
22    -----
23    ↪
24 */
25
26 import java.awt.*;
27 import java.awt.event.*;
28 import javax.swing.*;
29 import javax.imageio.*;
30
31 public class BSF4ooRexx implements Runnable, ActionListener
32 {
33     private JFrame frame;
34     private JMenuBar menuBar;
35     private JMenu ooRexxMenu;
36     private JMenu bsfMenu;
37     private JMenu installMenu;
38     private JMenuItem licenceMenuItem;
39     private JMenuItem ooRexxMenuItem;
40     private JMenuItem docMenuItem;
41     private JMenuItem ooRexxSamplesMenuItem;
42     private JMenuItem infoMenuItem;
43     private JMenuItem downloadMenuItem;
44     private JMenuItem uninstallMenuItem;
45     private JMenuItem reinstallMenuItem;
46     private JMenuItem samplesMenuItem;
47     private JMenuItem utilMenuItem;
48     private JMenuItem ooRexxTryMenuItem;

```

```

47 public static void main(String[] args)
48 {
49     System.setProperty("apple.laf.useScreenMenuBar", "true");
50     System.setProperty("com.apple.mrj.application.apple.menu.about.name",
        ↪ "ooRexx Menu Bar");
51     SwingUtilities.invokeLater(new BSF4ooRexx());
52 }
53
54 public void run()
55 {
56     try {
57         com.apple.eawt.Application.getApplication().setDockIconImage(
58             ImageIO.read(this.getClass().getClassLoader().getResource("
        ↪ oorexx.png"))));
59     } catch (java.io.IOException e) {
60         System.out.println(e.getMessage());
61     }
62
63     frame = new JFrame("ooRexx");
64     menuBar = new JMenuBar();
65
66     ooRexxMenu = new JMenu("Open Object Rexx");
67
68     licenceMenuItem = new JMenuItem("Licence");
69     licenceMenuItem.setAccelerator(KeyStroke.getKeyStroke('L', Toolkit.
        ↪ getDefaultToolkit().getMenuShortcutKeyMask()));
70     licenceMenuItem.addActionListener(this);
71     ooRexxMenu.add(licenceMenuItem);
72
73     ooRexxMenuItem = new JMenuItem("ooRexx Home Page");
74     ooRexxMenuItem.setAccelerator(KeyStroke.getKeyStroke('O', Toolkit.
        ↪ getDefaultToolkit().getMenuShortcutKeyMask()));
75     ooRexxMenuItem.addActionListener(this);
76     ooRexxMenu.add(ooRexxMenuItem);
77
78     ooRexxTryMenuItem = new JMenuItem("ooRexxTry");
79     ooRexxTryMenuItem.setAccelerator(KeyStroke.getKeyStroke('T', Toolkit.
        ↪ getDefaultToolkit().getMenuShortcutKeyMask()));
80     ooRexxTryMenuItem.addActionListener(this);
81     ooRexxMenu.add(ooRexxTryMenuItem);
82
83     docMenuItem = new JMenuItem("Documentation");
84     docMenuItem.setAccelerator(KeyStroke.getKeyStroke('D', Toolkit.
        ↪ getDefaultToolkit().getMenuShortcutKeyMask()));
85     docMenuItem.addActionListener(this);
86     ooRexxMenu.add(docMenuItem);
87
88     ooRexxSamplesMenuItem = new JMenuItem("ooRexx Samples");

```

```

89 ooRexxSamplesMenuItem.setAccelerator(KeyStroke.getKeyStroke('S',
    ↳ Toolkit.getDefaultToolkit().getMenuShortcutKeyMask()));
90 ooRexxSamplesMenuItem.addActionListener(this);
91 ooRexxMenu.add(ooRexxSamplesMenuItem);
92
93
94 bsfMenu = new JMenu("BSF4ooRexx");
95
96 infoMenuItem = new JMenuItem("Information");
97 infoMenuItem.setAccelerator(KeyStroke.getKeyStroke('I', Toolkit.
    ↳ getDefaultToolkit().getMenuShortcutKeyMask()));
98 infoMenuItem.addActionListener(this);
99 bsfMenu.add(infoMenuItem);
100
101 downloadMenuItem = new JMenuItem("BSF4ooRexx Download Page");
102 downloadMenuItem.setAccelerator(KeyStroke.getKeyStroke('B', Toolkit.
    ↳ getDefaultToolkit().getMenuShortcutKeyMask()));
103 downloadMenuItem.addActionListener(this);
104 bsfMenu.add(downloadMenuItem);
105
106 utilMenuItem = new JMenuItem("Utilities");
107 utilMenuItem.setAccelerator(KeyStroke.getKeyStroke('U', Toolkit.
    ↳ getDefaultToolkit().getMenuShortcutKeyMask()));
108 utilMenuItem.addActionListener(this);
109 bsfMenu.add(utilMenuItem);
110
111 samplesMenuItem = new JMenuItem("BSF4ooRexx Samples");
112 samplesMenuItem.setAccelerator(KeyStroke.getKeyStroke('E', Toolkit.
    ↳ getDefaultToolkit().getMenuShortcutKeyMask()));
113 samplesMenuItem.addActionListener(this);
114 bsfMenu.add(samplesMenuItem);
115
116
117 installMenu = new JMenu("Installation");
118
119 uninstallMenuItem = new JMenuItem("Uninstall ooRexx with BSF4ooRexx")
    ↳ ;
120 uninstallMenuItem.setAccelerator(KeyStroke.getKeyStroke('X', Toolkit.
    ↳ getDefaultToolkit().getMenuShortcutKeyMask()));
121 uninstallMenuItem.addActionListener(this);
122
123 reinstallMenuItem = new JMenuItem("Reinstall ooRexx with BSF4ooRexx")
    ↳ ;
124 reinstallMenuItem.setAccelerator(KeyStroke.getKeyStroke('R', Toolkit.
    ↳ getDefaultToolkit().getMenuShortcutKeyMask()));
125 reinstallMenuItem.addActionListener(this);
126 installMenu.add(uninstallMenuItem);
127 installMenu.add(reinstallMenuItem);
128

```



```

129 menuBar.add(ooRexxMenu);
130 menuBar.add(bsfMenu);
131 menuBar.add(installMenu);
132
133 frame.setJMenuBar(menuBar);
134
135 frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
136 frame.setSize(0, 0);
137 frame.setLocation(Short.MIN_VALUE, Short.MIN_VALUE);
138 frame.setUndecorated(true);
139 frame.setVisible(true);
140 }
141
142 public void actionPerformed(ActionEvent ev)
143 {
144     Object source = ev.getSource();
145
146     try {
147
148         if (source == licenceMenuItem)
149             Runtime.getRuntime().exec("open /opt/ooRexx/CPLv1.0.txt");
150         else if (source == ooRexxMenuItem)
151             Runtime.getRuntime().exec("open http://www.oorexx.org/");
152         else if (source == ooRexxTryMenuItem)
153             Runtime.getRuntime().exec("/Applications/ooRexx.app/
154                                     ↪ Contents/MacOS/run_ooRexxTry.sh");
155         else if (source == docMenuItem)
156             Runtime.getRuntime().exec("open /Applications/ooRexx.app/
157                                     ↪ Contents/documentation/ooRexx/");
158         else if (source == ooRexxSamplesMenuItem)
159             Runtime.getRuntime().exec("open /Applications/ooRexx.app/
160                                     ↪ Contents/samples/ooRexx/");
161         else if (source == infoMenuItem)
162             Runtime.getRuntime().exec("open /Applications/ooRexx.app/
163                                     ↪ Contents/documentation/BSF4ooRexx/");
164         else if (source == downloadMenuItem)
165             Runtime.getRuntime().exec("open http://sourceforge.net/
166                                     ↪ projects/bsf4oorexx/");
167         else if (source == utilMenuItem)
168             Runtime.getRuntime().exec("open /Applications/ooRexx.app/
169                                     ↪ Contents/utilities/");
170         else if (source == samplesMenuItem)
171             Runtime.getRuntime().exec("open /Applications/ooRexx.app/
172                                     ↪ Contents/samples/BSF4ooRexx/");
173         else if (source == uninstallMenuItem) {
174             if (JOptionPane.showConfirmDialog(null, "Do you really want
175                                     ↪ to uninstall?", "Uninstall ooRexx with BSF4ooRexx",
176                                     ↪ JOptionPane.OK_CANCEL_OPTION) == 0) {

```

```

168         Runtime.getRuntime().exec("sh /Applications/ooRexx.app/
           ↪ Contents/Resources/uninstall.sh uninstall");
169     System.exit(0);
170 }
171 }
172 else if (source == reinstallMenuItem) {
173     if (JOptionPane.showConfirmDialog(null, "Do you really want
           ↪ to reinstall?", "Reinstall ooRexx with BSF4ooRexx",
           ↪ JOptionPane.OK_CANCEL_OPTION) == 0) {
174         Runtime.getRuntime().exec("sh /Applications/ooRexx.app/
           ↪ Contents/Resources/uninstall.sh reinstall");
175         System.exit(0);
176     }
177 }
178
179 } catch (java.io.IOException e) {
180     System.out.println(e.getMessage());
181 }
182 }
183 }

```

Listing 45: The ooRexx menu bar.

6.2.15 The Mac OS X Installer's 32 bit Install Script

```

1  #!/bin/sh
2
3  # Name: BSF4ooRexx_install_postflight.sh
4  # Purpose: Install script for ooRexx and BSF4ooRexx
5  # Author: Juergen Hesse, Manuel Paar
6  # Version: 1.0
7  #
8  # ----- Apache Version 2.0 license
   ↪ -----
9  #     Copyright (C) 2011 Juergen Hesse, Manuel Paar
10 #
11 #     Licensed under the Apache License, Version 2.0 (the "License");
12 #     you may not use this file except in compliance with the License.
13 #     You may obtain a copy of the License at
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15 #         http://www.apache.org/licenses/LICENSE-2.0
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17 #     Unless required by applicable law or agreed to in writing, software
18 #     distributed under the License is distributed on an "AS IS" BASIS,
19 #     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
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```

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```
20 # See the License for the specific language governing permissions and
21 # limitations under the License.
22 #
23 ↪ -----
24 ↪
25
26 VER=4
27 REL=0
28 MOD=3
29 PREFIX=/opt/ooRexx
30
31 echo $SCRIPT_NAME: linking files
32
33 echo $SCRIPT_NAME: linking libraries to /usr/lib
34 ln -sf $PREFIX/lib/ooRexx/libhostemu.$VER.$REL.$MOD.dylib /usr/lib
35 ln -sf $PREFIX/lib/ooRexx/libhostemu.$VER.dylib /usr/lib
36 ln -sf $PREFIX/lib/ooRexx/libhostemu.a /usr/lib
37 ln -sf $PREFIX/lib/ooRexx/libhostemu.dylib /usr/lib
38 ln -sf $PREFIX/lib/ooRexx/libhostemu.la /usr/lib
39 ln -sf $PREFIX/lib/ooRexx/librexx.$VER.$REL.$MOD.dylib /usr/lib
40 ln -sf $PREFIX/lib/ooRexx/librexx.$VER.dylib /usr/lib
41 ln -sf $PREFIX/lib/ooRexx/librexx.a /usr/lib
42 ln -sf $PREFIX/lib/ooRexx/librexx.dylib /usr/lib
43 ln -sf $PREFIX/lib/ooRexx/librexx.la /usr/lib
44 ln -sf $PREFIX/lib/ooRexx/librexxapi.$VER.$REL.$MOD.dylib /usr/lib
45 ln -sf $PREFIX/lib/ooRexx/librexxapi.$VER.dylib /usr/lib
46 ln -sf $PREFIX/lib/ooRexx/librexxapi.a /usr/lib
47 ln -sf $PREFIX/lib/ooRexx/librexxapi.dylib /usr/lib
48 ln -sf $PREFIX/lib/ooRexx/librexxapi.la /usr/lib
49 ln -sf $PREFIX/lib/ooRexx/librexxutil.$VER.$REL.$MOD.dylib /usr/lib
50 ln -sf $PREFIX/lib/ooRexx/librexxutil.$VER.dylib /usr/lib
51 ln -sf $PREFIX/lib/ooRexx/librexxutil.a /usr/lib
52 ln -sf $PREFIX/lib/ooRexx/librexxutil.dylib /usr/lib
53 ln -sf $PREFIX/lib/ooRexx/librexxutil.la /usr/lib
54 ln -sf $PREFIX/lib/ooRexx/librexxmath.$VER.$REL.$MOD.dylib /usr/lib
55 ln -sf $PREFIX/lib/ooRexx/librexxmath.$VER.dylib /usr/lib
56 ln -sf $PREFIX/lib/ooRexx/librexxmath.a /usr/lib
57 ln -sf $PREFIX/lib/ooRexx/librexxmath.dylib /usr/lib
58 ln -sf $PREFIX/lib/ooRexx/librexxmath.la /usr/lib
59 ln -sf $PREFIX/lib/ooRexx/librexxregexp.$VER.$REL.$MOD.dylib /usr/lib
60 ln -sf $PREFIX/lib/ooRexx/librexxregexp.$VER.dylib /usr/lib
61 ln -sf $PREFIX/lib/ooRexx/librexxregexp.a /usr/lib
62 ln -sf $PREFIX/lib/ooRexx/librexxregexp.dylib /usr/lib
63 ln -sf $PREFIX/lib/ooRexx/librexxregexp.la /usr/lib
64 ln -sf $PREFIX/lib/ooRexx/librexxsock.$VER.$REL.$MOD.dylib /usr/lib
65 ln -sf $PREFIX/lib/ooRexx/librexxsock.$VER.dylib /usr/lib
66 ln -sf $PREFIX/lib/ooRexx/librexxsock.a /usr/lib
67 ln -sf $PREFIX/lib/ooRexx/librexxsock.dylib /usr/lib
68 ln -sf $PREFIX/lib/ooRexx/librexxsock.la /usr/lib
```

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```
67 ln -sf $PREFIX/lib/ooRexx/librxunixsys.$VER.$REL.$MOD.dylib /usr/lib
68 ln -sf $PREFIX/lib/ooRexx/librxunixsys.$VER.dylib /usr/lib
69 ln -sf $PREFIX/lib/ooRexx/librxunixsys.a /usr/lib
70 ln -sf $PREFIX/lib/ooRexx/librxunixsys.dylib /usr/lib
71 ln -sf $PREFIX/lib/ooRexx/librxunixsys.la /usr/lib
72
73 echo $SCRIPT_NAME: linking programs to /usr/bin
74 ln -sf $PREFIX/bin/csvStream.cls /usr/bin
75 ln -sf $PREFIX/bin/mime.cls /usr/bin
76 ln -sf $PREFIX/bin/ooRexx-config /usr/bin
77 ln -sf $PREFIX/bin/rexx /usr/bin
78 ln -sf $PREFIX/bin/rexx.cat /usr/bin
79 ln -sf $PREFIX/bin/rexx.img /usr/bin
80 ln -sf $PREFIX/bin/rexxc /usr/bin
81 ln -sf $PREFIX/bin/rexximage /usr/bin
82 ln -sf $PREFIX/bin/rxapi /usr/bin
83 ln -sf $PREFIX/bin/rxftp.cls /usr/bin
84 ln -sf $PREFIX/bin/rxqueue /usr/bin
85 ln -sf $PREFIX/bin/rxregexpc.cls /usr/bin
86 ln -sf $PREFIX/bin/rxsubcom /usr/bin
87 ln -sf $PREFIX/bin/smtp.cls /usr/bin
88 ln -sf $PREFIX/bin/socket.cls /usr/bin
89 ln -sf $PREFIX/bin/socket.cls /usr/bin
90 ln -sf $PREFIX/bin/streamsocket.cls /usr/bin
91 ln -sf $PREFIX/share/ooRexx/rexxtry.rex /usr/bin
92
93 echo $SCRIPT_NAME: linking man pages to /usr/share/man/man1
94 ln -sf $PREFIX/share/man/man1/ooRexx-config.1 /usr/share/man/man1
95 ln -sf $PREFIX/share/man/man1/rexx.1 /usr/share/man/man1
96 ln -sf $PREFIX/share/man/man1/rexxc.1 /usr/share/man/man1
97 ln -sf $PREFIX/share/man/man1/rxmigrate.1 /usr/share/man/man1
98 ln -sf $PREFIX/share/man/man1/rxqueue.1 /usr/share/man/man1
99 ln -sf $PREFIX/share/man/man1/rxsubcom.1 /usr/share/man/man1
100
101 echo $SCRIPT_NAME: linking headers to /usr/include
102 ln -sf $PREFIX/include/ooRexxapi.h /usr/include
103 ln -sf $PREFIX/include/ooRexxerrors.h /usr/include
104 ln -sf $PREFIX/include/rexx.h /usr/include
105 ln -sf $PREFIX/include/rexxapidefs.h /usr/include
106 ln -sf $PREFIX/include/rexxapitypes.h /usr/include
107 ln -sf $PREFIX/include/rexxplatformapis.h /usr/include
108 ln -sf $PREFIX/include/rexxplatformdefs.h /usr/include
109
110 echo $SCRIPT_NAME: linking Launch Daemon to /Library/LaunchDaemons
111 ln -sf $PREFIX/bin/org.rexxla.ooRexx.rxapid.plist /Library/LaunchDaemons
112
113 echo $SCRIPT_NAME: stop/start rxapi Daemon
114 launchctl unload -w /Library/LaunchDaemons/org.rexxla.ooRexx.rxapid.plist
115 killall rxapi
```

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```
116 launchctl load -w /Library/LaunchDaemons/org.rexxla.oorexx.rapid.plist
117
118 echo $SCRIPT_NAME: linking complete
119
120
121 BSF4OOREXX_FRAMEWORK=/opt/BSF4ooRexx
122
123 BIN_DIR=/usr/bin
124 JAVA_LIB_DIR=/usr/lib/java
125
126 OOO_SCRIPTLIB_SRC=$BSF4OOREXX_FRAMEWORK/Libraries/OOo_ScriptLibraries
127
128 OOO_APP_DIR=/Applications/OpenOffice.org.app
129 OOO_SCRIPTLIB_DIR=$OOO_APP_DIR/Contents/basis-link/share/Scripts
130 OOO_UNO_PATH=$OOO_APP_DIR/Contents/program
131 OOO_JAVA_PATH=$OOO_APP_DIR/Contents/basis-link/ure-link/share/java
132 OOO_UNOIL_PATH=$OOO_APP_DIR/Contents/basis-link/program/classes
133
134 LO_APP_DIR=/Applications/LibreOffice.app
135 LO_SCRIPTLIB_DIR=$LO_APP_DIR/Contents/basis-link/share/Scripts
136 LO_UNO_PATH=$LO_APP_DIR/Contents/program
137 LO_JAVA_PATH=$LO_APP_DIR/Contents/basis-link/ure-link/share/java
138 LO_UNOIL_PATH=$LO_APP_DIR/Contents/basis-link/program/classes
139
140 echo ""
141 echo "Creating symbolic links in $BIN_DIR..."
142 echo ""
143
144 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/BSF.CLS
145     ↪ $BIN_DIR
146 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/BSF_OnTheFly.cls
147     ↪ $BIN_DIR
148 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/rexxj2.sh
149     ↪ $BIN_DIR
150 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/rexxj2.sh
151     ↪ $BIN_DIR/rexxj.sh
152 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/rgf_util2.rex
153     ↪ $BIN_DIR
154 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO.CLS
155     ↪ $BIN_DIR
156 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO_XINTERFACES.RXO
157     ↪ $BIN_DIR
158 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO_ReflectionUtil.cls
159     ↪ $BIN_DIR
160 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO_CREATE_INTERFACE_LIST.RXO
161     ↪ $BIN_DIR
162 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO_API_info.rxo
163     ↪ $BIN_DIR
164
```

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```
155 echo ""
156 echo "Creating symbolic links in $JAVA_LIB_DIR..."
157 echo ""
158
159 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Libraries/libBSF4ooRexx.dylib
    ↪ $JAVA_LIB_DIR
160 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Libraries/libBSF4ooRexx.dylib /usr/lib
161
162 echo ""
163 echo "Creating symbolic links in $BSF4OOREXX_FRAMEWORK..."
164 echo ""
165
166 sudo ln -sf /Applications/ooRexx.app/Contents/samples/BSF4ooRexx
    ↪ $BSF4OOREXX_FRAMEWORK/Samples
167 sudo ln -sf /Applications/ooRexx.app/Contents/documentation/BSF4ooRexx
    ↪ $BSF4OOREXX_FRAMEWORK/Information
168 sudo ln -sf /Applications/ooRexx.app/Contents/utilities
    ↪ $BSF4OOREXX_FRAMEWORK/Utilities
169
170 sudo mkdir -p $BSF4OOREXX_FRAMEWORK/Install
171 sudo ln -sf /Applications/ooRexx.app/Contents/Resources/
    ↪ one_click_uninstall.sh $BSF4OOREXX_FRAMEWORK/Install/uninstall.sh
172 sudo ln -sf /Applications/ooRexx.app/Contents/Resources/
    ↪ one_click_reinstall.sh $BSF4OOREXX_FRAMEWORK/Install/reinstall.sh
173
174 OOORESULT=`lipo -info /Applications/OpenOffice.org.app/Contents/program/
    ↪ soffice | grep i386;`
175
176 if [[ -e $OOO_APP_DIR && ! -z $OOORESULT ]]
177 then
178     echo ""
179     echo "Adding OpenOffice JARs to CLASSPATH..."
180     echo ""
181
182     OOO_JUH=$OOO_JAVA_PATH/juh.jar
183     OOO_JURT=$OOO_JAVA_PATH/jurt.jar
184     OOO_RIDL=$OOO_JAVA_PATH/ridl.jar
185
186     sudo echo "export CLASSPATH=\$CLASSPATH:$OOO_UNO_PATH:$OOO_JUH:
    ↪ $OOO_JURT:$OOO_RIDL" >> /etc/profile
187     sudo echo "export CLASSPATH=\$CLASSPATH:$OOO_UNOIL_PATH/unoil.jar
    ↪ " >> /etc/profile
188     sudo $OOO_UNO_PATH/unopkg add --shared $BSF4OOREXX_FRAMEWORK/
    ↪ Libraries/ScriptProviderForooRexx.oxt
189 fi
190
191 LORESULT=`lipo -info /Applications/LibreOffice.app/Contents/program/
    ↪ soffice | grep i386;`
192
```

```

193 if [[ -e $LO_APP_DIR && ! -z $LORESULT ]]
194 then
195     echo ""
196     echo "Adding LibreOffice JARs to CLASSPATH..."
197     echo ""
198
199     LO_JUH=$LO_JAVA_PATH/juh.jar
200     LO_JURT=$LO_JAVA_PATH/jurt.jar
201     LO_RIDL=$LO_JAVA_PATH/ridl.jar
202
203     sudo echo "export CLASSPATH=\$CLASSPATH:$LO_UNO_PATH:$LO_JUH:
204         ↪ $LO_JURT:$LO_RIDL" >> /etc/profile
205     sudo echo "export CLASSPATH=\$CLASSPATH:$LO_UNOIL_PATH/unoil.jar"
206         ↪ >> /etc/profile
207     sudo $LO_UNO_PATH/unopkg add --shared $BSF4OOREXX_FRAMEWORK/Libraries
208         ↪ /ScriptProviderForooRexx.oxt
209 fi
210
211 echo ""
212 echo "Adding BSF4ooRexx JARs to CLASSPATH..."
213 echo ""
214
215 sudo echo "export CLASSPATH=\$CLASSPATH:$BSF4OOREXX_FRAMEWORK/Classes/bsf
216         ↪ -rexx-engine.jar" >> /etc/profile
217 sudo echo "export CLASSPATH=\$CLASSPATH:$BSF4OOREXX_FRAMEWORK/Classes/bsf
218         ↪ -v400-20090910.jar" >> /etc/profile
219
220 if [[ -e $OOO_APP_DIR && ! -z $OOORESULT ]]
221 then
222     echo ""
223     echo "Installing OOo macros..."
224     echo ""
225
226     sudo cp -r $OOO_SCRIPTLIB_SRC/javascript/* $OOO_SCRIPTLIB_DIR/
227         ↪ javascript
228     sudo cp -r $OOO_SCRIPTLIB_SRC/python/* $OOO_SCRIPTLIB_DIR/python
229     sudo cp -r $OOO_SCRIPTLIB_SRC/oorexx $OOO_SCRIPTLIB_DIR/
230     # wu_tools muss per hand ins Framework kopiert werden!
231     sudo cp $BSF4OOREXX_FRAMEWORK/Commands/UNO_API_info.rxo
232         ↪ $OOO_SCRIPTLIB_DIR/oorexx/wu_tools/
233 fi
234
235 if [[ -e $LO_APP_DIR && ! -z $LORESULT ]]
236 then
237     echo ""
238     echo "Installing LibreOffice macros..."
239     echo ""

```

```

235     sudo cp -r $OOO_SCRIPTLIB_SRC/javascript/* $LO_SCRIPTLIB_DIR/
        ↳ javascript
236     sudo cp -r $OOO_SCRIPTLIB_SRC/python/* $LO_SCRIPTLIB_DIR/python
237     sudo cp -r $OOO_SCRIPTLIB_SRC/oorexx $LO_SCRIPTLIB_DIR/
238     # wu_tools muss per hand ins Framework kopiert werden!
239     sudo cp $BSF4OOREXX_FRAMEWORK/Commands/UNO_API_info.rxo
        ↳ $LO_SCRIPTLIB_DIR/oorexx/wu_tools/
240 fi
241
242
243 echo ""
244 echo "Cleaning up..."
245 echo ""
246
247 sudo /System/Library/Frameworks/CoreServices.framework/Versions/Current/
    ↳ Frameworks/LaunchServices.framework/Versions/Current/Support/
    ↳ lsregister -kill -r -domain system -domain local -domain

```

Listing 46: The Mac OS X Installer's postflight script.

6.2.16 The Mac OS X Installer's 64 bit Install Script

```

1  #!/bin/sh
2
3  # Name: BSF4ooRexx_install_postflight.sh
4  # Purpose: Install script for ooRexx and BSF4ooRexx
5  # Author: Juergen Hesse, Manuel Paar
6  # Version: 1.0
7  #
8  # ----- Apache Version 2.0 license
   ↳ -----
9  #     Copyright (C) 2011 Juergen Hesse, Manuel Paar
10 #
11 #     Licensed under the Apache License, Version 2.0 (the "License");
12 #     you may not use this file except in compliance with the License.
13 #     You may obtain a copy of the License at
14 #
15 #         http://www.apache.org/licenses/LICENSE-2.0
16 #
17 #     Unless required by applicable law or agreed to in writing, software
18 #     distributed under the License is distributed on an "AS IS" BASIS,
19 #     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   ↳ implied.
20 #     See the License for the specific language governing permissions and
21 #     limitations under the License.

```


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```
22 #
    ↪ -----
    ↪
23
24 VER=4
25 REL=0
26 MOD=3
27 PREFIX=/opt/ooRexx
28
29 echo $SCRIPT_NAME: linking files
30
31 echo $SCRIPT_NAME: linking libraries to /usr/lib
32 ln -sf $PREFIX/lib/ooRexx/libhostemu.$VER.$REL.$MOD.dylib /usr/lib
33 ln -sf $PREFIX/lib/ooRexx/libhostemu.$VER.dylib /usr/lib
34 ln -sf $PREFIX/lib/ooRexx/libhostemu.a /usr/lib
35 ln -sf $PREFIX/lib/ooRexx/libhostemu.dylib /usr/lib
36 ln -sf $PREFIX/lib/ooRexx/libhostemu.la /usr/lib
37 ln -sf $PREFIX/lib/ooRexx/librexx.$VER.$REL.$MOD.dylib /usr/lib
38 ln -sf $PREFIX/lib/ooRexx/librexx.$VER.dylib /usr/lib
39 ln -sf $PREFIX/lib/ooRexx/librexx.a /usr/lib
40 ln -sf $PREFIX/lib/ooRexx/librexx.dylib /usr/lib
41 ln -sf $PREFIX/lib/ooRexx/librexx.la /usr/lib
42 ln -sf $PREFIX/lib/ooRexx/librexxapi.$VER.$REL.$MOD.dylib /usr/lib
43 ln -sf $PREFIX/lib/ooRexx/librexxapi.$VER.dylib /usr/lib
44 ln -sf $PREFIX/lib/ooRexx/librexxapi.a /usr/lib
45 ln -sf $PREFIX/lib/ooRexx/librexxapi.dylib /usr/lib
46 ln -sf $PREFIX/lib/ooRexx/librexxapi.la /usr/lib
47 ln -sf $PREFIX/lib/ooRexx/librexxutil.$VER.$REL.$MOD.dylib /usr/lib
48 ln -sf $PREFIX/lib/ooRexx/librexxutil.$VER.dylib /usr/lib
49 ln -sf $PREFIX/lib/ooRexx/librexxutil.a /usr/lib
50 ln -sf $PREFIX/lib/ooRexx/librexxutil.dylib /usr/lib
51 ln -sf $PREFIX/lib/ooRexx/librexxutil.la /usr/lib
52 ln -sf $PREFIX/lib/ooRexx/librxmath.$VER.$REL.$MOD.dylib /usr/lib
53 ln -sf $PREFIX/lib/ooRexx/librxmath.$VER.dylib /usr/lib
54 ln -sf $PREFIX/lib/ooRexx/librxmath.a /usr/lib
55 ln -sf $PREFIX/lib/ooRexx/librxmath.dylib /usr/lib
56 ln -sf $PREFIX/lib/ooRexx/librxmath.la /usr/lib
57 ln -sf $PREFIX/lib/ooRexx/librxregexp.$VER.$REL.$MOD.dylib /usr/lib
58 ln -sf $PREFIX/lib/ooRexx/librxregexp.$VER.dylib /usr/lib
59 ln -sf $PREFIX/lib/ooRexx/librxregexp.a /usr/lib
60 ln -sf $PREFIX/lib/ooRexx/librxregexp.dylib /usr/lib
61 ln -sf $PREFIX/lib/ooRexx/librxregexp.la /usr/lib
62 ln -sf $PREFIX/lib/ooRexx/librxsock.$VER.$REL.$MOD.dylib /usr/lib
63 ln -sf $PREFIX/lib/ooRexx/librxsock.$VER.dylib /usr/lib
64 ln -sf $PREFIX/lib/ooRexx/librxsock.a /usr/lib
65 ln -sf $PREFIX/lib/ooRexx/librxsock.dylib /usr/lib
66 ln -sf $PREFIX/lib/ooRexx/librxsock.la /usr/lib
67 ln -sf $PREFIX/lib/ooRexx/librxunixsys.$VER.$REL.$MOD.dylib /usr/lib
68 ln -sf $PREFIX/lib/ooRexx/librxunixsys.$VER.dylib /usr/lib
```

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```
69 ln -sf $PREFIX/lib/ooRexx/librxunixsys.a /usr/lib
70 ln -sf $PREFIX/lib/ooRexx/librxunixsys.dylib /usr/lib
71 ln -sf $PREFIX/lib/ooRexx/librxunixsys.la /usr/lib
72
73 echo $SCRIPT_NAME: linking programs to /usr/bin
74 ln -sf $PREFIX/bin/csvStream.cls /usr/bin
75 ln -sf $PREFIX/bin/mime.cls /usr/bin
76 ln -sf $PREFIX/bin/oorexx-config /usr/bin
77 ln -sf $PREFIX/bin/rexx /usr/bin
78 ln -sf $PREFIX/bin/rexx.cat /usr/bin
79 ln -sf $PREFIX/bin/rexx.img /usr/bin
80 ln -sf $PREFIX/bin/rexxc /usr/bin
81 ln -sf $PREFIX/bin/rexximage /usr/bin
82 ln -sf $PREFIX/bin/rxapi /usr/bin
83 ln -sf $PREFIX/bin/rxftp.cls /usr/bin
84 ln -sf $PREFIX/bin/rxqueue /usr/bin
85 ln -sf $PREFIX/bin/rxregexp.cls /usr/bin
86 ln -sf $PREFIX/bin/rxsubcom /usr/bin
87 ln -sf $PREFIX/bin/smtplib /usr/bin
88 ln -sf $PREFIX/bin/socket.cls /usr/bin
89 ln -sf $PREFIX/bin/socket.cls /usr/bin
90 ln -sf $PREFIX/bin/streamsocket.cls /usr/bin
91 ln -sf $PREFIX/share/ooRexx/rexxtry.rex /usr/bin
92
93 echo $SCRIPT_NAME: linking man pages to /usr/share/man/man1
94 ln -sf $PREFIX/share/man/man1/oorexx-config.1 /usr/share/man/man1
95 ln -sf $PREFIX/share/man/man1/rexx.1 /usr/share/man/man1
96 ln -sf $PREFIX/share/man/man1/rexxc.1 /usr/share/man/man1
97 ln -sf $PREFIX/share/man/man1/rxmigrate.1 /usr/share/man/man1
98 ln -sf $PREFIX/share/man/man1/rxqueue.1 /usr/share/man/man1
99 ln -sf $PREFIX/share/man/man1/rxsubcom.1 /usr/share/man/man1
100
101 echo $SCRIPT_NAME: linking headers to /usr/include
102 ln -sf $PREFIX/include/oorexxapi.h /usr/include
103 ln -sf $PREFIX/include/oorexxerrors.h /usr/include
104 ln -sf $PREFIX/include/rexx.h /usr/include
105 ln -sf $PREFIX/include/rexxapidefs.h /usr/include
106 ln -sf $PREFIX/include/rexxapitypes.h /usr/include
107 ln -sf $PREFIX/include/rexxplatformapis.h /usr/include
108 ln -sf $PREFIX/include/rexxplatformdefs.h /usr/include
109
110 echo $SCRIPT_NAME: linking Launch Daemon to /Library/LaunchDaemons
111 ln -sf $PREFIX/bin/org.rexxla.oorexx.rxapid.plist /Library/LaunchDaemons
112
113 echo $SCRIPT_NAME: stop/start rxapi Daemon
114 launchctl unload -w /Library/LaunchDaemons/org.rexxla.oorexx.rxapid.plist
115 killall rxapi
116 launchctl load -w /Library/LaunchDaemons/org.rexxla.oorexx.rxapid.plist
117
```

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```
118 echo $SCRIPT_NAME: linking complete
119
120
121 BSF4OOREXX_FRAMEWORK=/opt/BSF4ooRexx
122
123 BIN_DIR=/usr/bin
124 JAVA_LIB_DIR=/usr/lib/java
125
126 OOO_SCRIPTLIB_SRC=$BSF4OOREXX_FRAMEWORK/Libraries/OOo_ScriptLibraries
127
128 OOO_APP_DIR=/Applications/OpenOffice.org.app
129 OOO_SCRIPTLIB_DIR=$OOO_APP_DIR/Contents/basis-link/share/Scripts
130 OOO_UNO_PATH=$OOO_APP_DIR/Contents/program
131 OOO_JAVA_PATH=$OOO_APP_DIR/Contents/basis-link/ure-link/share/java
132 OOO_UNOIL_PATH=$OOO_APP_DIR/Contents/basis-link/program/classes
133
134 LO_APP_DIR=/Applications/LibreOffice.app
135 LO_SCRIPTLIB_DIR=$LO_APP_DIR/Contents/basis-link/share/Scripts
136 LO_UNO_PATH=$LO_APP_DIR/Contents/program
137 LO_JAVA_PATH=$LO_APP_DIR/Contents/basis-link/ure-link/share/java
138 LO_UNOIL_PATH=$LO_APP_DIR/Contents/basis-link/program/classes
139
140 echo ""
141 echo "Creating symbolic links in $BIN_DIR..."
142 echo ""
143
144 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/BSF.CLS
145     ↪ $BIN_DIR
146 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/BSF_OnTheFly.cls
147     ↪ $BIN_DIR
148 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/rexxj2.sh
149     ↪ $BIN_DIR
150 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/rexxj2.sh
151     ↪ $BIN_DIR/rexxj.sh
152 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/rgf_util2.rex
153     ↪ $BIN_DIR
154 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO.CLS
155     ↪ $BIN_DIR
156 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO_XINTERFACES.RXO
157     ↪ $BIN_DIR
158 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO_ReflectionUtil.cls
159     ↪ $BIN_DIR
160 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO_CREATE_INTERFACE_LIST.RXO
161     ↪ $BIN_DIR
162 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Commands/UNO_API_info.rxo
163     ↪ $BIN_DIR
164
165 echo ""
166 echo "Creating symbolic links in $JAVA_LIB_DIR..."
```

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```
157 echo ""
158
159 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Libraries/libBSF4ooRexx.dylib
    ↪ $JAVA_LIB_DIR
160 sudo ln -sf $BSF4OOREXX_FRAMEWORK/Libraries/libBSF4ooRexx.dylib /usr/lib
161
162 echo ""
163 echo "Creating symbolic links in $BSF4OOREXX_FRAMEWORK..."
164 echo ""
165
166 sudo ln -sf /Applications/ooRexx.app/Contents/samples/BSF4ooRexx
    ↪ $BSF4OOREXX_FRAMEWORK/Samples
167 sudo ln -sf /Applications/ooRexx.app/Contents/documentation/BSF4ooRexx
    ↪ $BSF4OOREXX_FRAMEWORK/Information
168 sudo ln -sf /Applications/ooRexx.app/Contents/utilities
    ↪ $BSF4OOREXX_FRAMEWORK/Utilities
169
170 sudo mkdir -p $BSF4OOREXX_FRAMEWORK/Install
171 sudo ln -sf /Applications/ooRexx.app/Contents/Resources/
    ↪ one_click_uninstall.sh $BSF4OOREXX_FRAMEWORK/Install/uninstall.sh
172 sudo ln -sf /Applications/ooRexx.app/Contents/Resources/
    ↪ one_click_reinstall.sh $BSF4OOREXX_FRAMEWORK/Install/reinstall.sh
173
174 OOORESULT=`lipo -info /Applications/OpenOffice.org.app/Contents/program/
    ↪ soffice | grep x86_64;`
175
176 if [[ -e $OOO_APP_DIR && ! -z $OOORESULT ]]
177 then
178     echo ""
179     echo "Adding OpenOffice JARs to CLASSPATH..."
180     echo ""
181
182     OOO_JUH=$OOO_JAVA_PATH/juh.jar
183     OOO_JURT=$OOO_JAVA_PATH/jurt.jar
184     OOO_RIDL=$OOO_JAVA_PATH/ridl.jar
185
186     sudo echo "export CLASSPATH=\$CLASSPATH:$OOO_UNO_PATH:$OOO_JUH:
    ↪ $OOO_JURT:$OOO_RIDL" >> /etc/profile
187     sudo echo "export CLASSPATH=\$CLASSPATH:$OOO_UNOIL_PATH/unoil.jar
    ↪ " >> /etc/profile
188     sudo $OOO_UNO_PATH/unopkg add --shared $BSF4OOREXX_FRAMEWORK/
    ↪ Libraries/ScriptProviderForooRexx.oxt
189 fi
190
191 LORESULT=`lipo -info /Applications/LibreOffice.app/Contents/program/
    ↪ soffice | grep x86_64;`
192
193 if [[ -e $LO_APP_DIR && ! -z $LORESULT ]]
194 then
```

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```
195     echo ""
196     echo "Adding LibreOffice JARs to CLASSPATH..."
197     echo ""
198
199     LO_JUH=$LO_JAVA_PATH/juh.jar
200     LO_JURT=$LO_JAVA_PATH/jurt.jar
201     LO_RIDL=$LO_JAVA_PATH/ridl.jar
202
203     sudo echo "export CLASSPATH=\$CLASSPATH:$LO_UNO_PATH:$LO_JUH:
204     ↪ $LO_JURT:$LO_RIDL" >> /etc/profile
205     sudo echo "export CLASSPATH=\$CLASSPATH:$LO_UNOIL_PATH/unoil.jar"
206     ↪ >> /etc/profile
207
208     sudo $LO_UNO_PATH/unopkg add --shared $BSF4OOREXX_FRAMEWORK/Libraries
209     ↪ /ScriptProviderForooRexx.oxt
210 fi
211
212 echo ""
213 echo "Adding BSF4ooRexx JARs to CLASSPATH..."
214 echo ""
215
216 sudo echo "export CLASSPATH=\$CLASSPATH:$BSF4OOREXX_FRAMEWORK/Classes/bsf
217 ↪ -rexx-engine.jar" >> /etc/profile
218 sudo echo "export CLASSPATH=\$CLASSPATH:$BSF4OOREXX_FRAMEWORK/Classes/bsf
219 ↪ -v400-20090910.jar" >> /etc/profile
220
221 if [[ -e $OOO_APP_DIR && ! -z $OOORESULT ]]
222 then
223     echo ""
224     echo "Installing OOo macros..."
225     echo ""
226
227     sudo cp -r $OOO_SCRIPTLIB_SRC/javascript/* $OOO_SCRIPTLIB_DIR/
228     ↪ javascript
229     sudo cp -r $OOO_SCRIPTLIB_SRC/python/* $OOO_SCRIPTLIB_DIR/python
230     sudo cp -r $OOO_SCRIPTLIB_SRC/oorexx $OOO_SCRIPTLIB_DIR/
231     # wu_tools muss per hand ins Framework kopiert werden!
232     sudo cp $BSF4OOREXX_FRAMEWORK/Commands/UNO_API_info.rxo
233     ↪ $OOO_SCRIPTLIB_DIR/oorexx/wu_tools/
234 fi
235
236 if [[ -e $LO_APP_DIR && ! -z $LORESULT ]]
237 then
238     echo ""
239     echo "Installing LibreOffice macros..."
240     echo ""
241
242     sudo cp -r $OOO_SCRIPTLIB_SRC/javascript/* $LO_SCRIPTLIB_DIR/
243     ↪ javascript
```

```

236 sudo cp -r $OOO_SCRIPTLIB_SRC/python/* $LO_SCRIPTLIB_DIR/python
237 sudo cp -r $OOO_SCRIPTLIB_SRC/oorexx $LO_SCRIPTLIB_DIR/
238 # wu_tools muss per hand ins Framework kopiert werden!
239 sudo cp $BSF4OOREXX_FRAMEWORK/Commands/UNO_API_info.rxo
    ↳ $LO_SCRIPTLIB_DIR/oorexx/wu_tools/
240 fi
241
242
243 echo ""
244 echo "Cleaning up..."
245 echo ""
246
247 sudo /System/Library/Frameworks/CoreServices.framework/Versions/Current/
    ↳ Frameworks/LaunchServices.framework/Versions/Current/Support/
    ↳ lsregister -kill -r -domain system -domain local -domain

```

Listing 47: The Mac OS X Installer's postflight script.

6.2.17 The Mac OS X Installer's Uninstall Script

```

1  #!/bin/sh
2
3  # Name: uninstall.sh
4  # Purpose: Uninstall script for ooRexx and BSF4ooRexx
5  # Author: Juergen Hesse, Manuel Paar
6  # Version: 1.0
7  #
8  # ----- Apache Version 2.0 license
    ↳ -----
9  #   Copyright (C) 2011 Juergen Hesse, Manuel Paar
10 #
11 #   Licensed under the Apache License, Version 2.0 (the "License");
12 #   you may not use this file except in compliance with the License.
13 #   You may obtain a copy of the License at
14 #
15 #       http://www.apache.org/licenses/LICENSE-2.0
16 #
17 #   Unless required by applicable law or agreed to in writing, software
18 #   distributed under the License is distributed on an "AS IS" BASIS,
19 #   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
    ↳ implied.
20 #   See the License for the specific language governing permissions and
21 #   limitations under the License.
22 #
    ↳ -----
    ↳

```

```

23
24 if [ $1 = "reinstall" ]
25     then
26         osascript -e "do shell script \"cp -r /Applications/ooRexx.app/
                ↳ Contents/sources /tmp/; cp /Applications/ooRexx.app/
                ↳ Contents/Resources/ooRexx_uninstall_preflight.sh /tmp/; cp
                ↳ /Applications/ooRexx.app/Contents/Resources/
                ↳ BSF4ooRexx_uninstall_preflight.sh /tmp/; sh /tmp/
                ↳ ooRexx_uninstall_preflight.sh reinstall\" with
                ↳ administrator privileges"
27 fi
28
29 if [ $1 = "uninstall" ]
30     then osascript -e "do shell script \"cp /Applications/ooRexx.app/
                ↳ Contents/Resources/ooRexx_uninstall_preflight.sh /tmp/; cp /
                ↳ Applications/ooRexx.app/Contents/Resources/
                ↳ BSF4ooRexx_uninstall_preflight.sh /tmp/; sh /tmp/
                ↳ ooRexx_uninstall_preflight.sh uninstall\" with administrator
                ↳ privileges"
31 fi

```

Listing 48: The Mac OS X uninstall script.

6.2.18 The Mac OS X Installer's 32 bit BSF4ooRexx Uninstall Script

```

1  #!/bin/sh
2
3  # Name: BSF4ooRexx_uninstall_preflight.sh
4  # Purpose: Uninstall script for BSF4ooRexx
5  # Author: Juergen Hesse, Manuel Paar
6  # Version: 1.0
7  #
8  # ----- Apache Version 2.0 license
   ↳ -----
9  #     Copyright (C) 2011 Juergen Hesse, Manuel Paar
10 #
11 #     Licensed under the Apache License, Version 2.0 (the "License");
12 #     you may not use this file except in compliance with the License.
13 #     You may obtain a copy of the License at
14 #
15 #         http://www.apache.org/licenses/LICENSE-2.0
16 #
17 #     Unless required by applicable law or agreed to in writing, software
18 #     distributed under the License is distributed on an "AS IS" BASIS,
19 #     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
   ↳ implied.

```

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```
20 # See the License for the specific language governing permissions and
21 # limitations under the License.
22 #
23     ↪ -----
24     ↪
25
26 BSF4OOREXX_FRAMEWORK=/opt/BSF4ooRexx
27
28 BIN_DIR=/usr/bin
29 JAVA_LIB_DIR=/usr/lib/java
30
31 OOO_APP_DIR=/Applications/OpenOffice.org.app
32 OOO_SCRIPTLIB_DIR=$OOO_APP_DIR/Contents/basis-link/share/Scripts
33 OOO_UNO_PATH=$OOO_APP_DIR/Contents/program
34 OOO_JAVA_PATH=$OOO_APP_DIR/Contents/basis-link/ure-link/share/java
35 OOO_UNOIL_PATH=$OOO_APP_DIR/Contents/basis-link/program/classes
36
37 LO_APP_DIR=/Applications/LibreOffice.app
38 LO_SCRIPTLIB_DIR=$LO_APP_DIR/Contents/basis-link/share/Scripts
39 LO_UNO_PATH=$LO_APP_DIR/Contents/program
40 LO_JAVA_PATH=$LO_APP_DIR/Contents/basis-link/ure-link/share/java
41 LO_UNOIL_PATH=$LO_APP_DIR/Contents/basis-link/program/classes
42
43 echo ""
44 echo "Removing executable files from $BIN_DIR..."
45 echo ""
46
47 sudo rm $BIN_DIR/BSF.CLS
48 sudo rm $BIN_DIR/BSF_OnTheFly.cls
49 sudo rm $BIN_DIR/rexxj2.sh
50 sudo rm $BIN_DIR/rexxj.sh
51 sudo rm $BIN_DIR/rgf_util2.rex
52 sudo rm $BIN_DIR/UNO.CLS
53 sudo rm $BIN_DIR/UNO_API_info.rxo
54 sudo rm $BIN_DIR/UNO_CREATE_INTERFACE_LIST.RXO
55 sudo rm $BIN_DIR/UNO_ReflectionUtil.cls
56 sudo rm $BIN_DIR/UNO_XINTERFACES.RXO
57
58 echo ""
59 echo "Removing framework directory $BSF4OOREXX_FRAMEWORK..."
60 echo ""
61
62 sudo rm -rf $BSF4OOREXX_FRAMEWORK
63
64 echo ""
65 echo "Removing dynamic link library from $JAVA_LIB_DIR..."
66 echo ""
67
68 sudo rm $JAVA_LIB_DIR/libBSF4ooRexx.dylib
```



```

67 sudo rm /usr/lib/libBSF4ooRexx.dylib
68
69 echo ""
70 echo "Removing CLASSPATH settings for OpenOffice..."
71 echo ""
72
73 OOORESULT=`lipo -info /Applications/OpenOffice.org.app/Contents/program/
    ↪ soffice | grep i386;`
74
75 if [[ -e $OOO_APP_DIR && ! -z $OOORESULT ]]
76 then
77     sudo grep -vx "export CLASSPATH=\$CLASSPATH:/Applications/
    ↪ OpenOffice.org.app/Contents/program:/Applications/
    ↪ OpenOffice.org.app/Contents/basis-link/ure-link/share/java/
    ↪ juh.jar:/Applications/OpenOffice.org.app/Contents/basis-
    ↪ link/ure-link/share/java/jurt.jar:/Applications/OpenOffice.
    ↪ org.app/Contents/basis-link/ure-link/share/java/ridl.jar
78 export CLASSPATH=\$CLASSPATH:/Applications/OpenOffice.org.app/Contents/
    ↪ basis-link/program/classes/unoil.jar" /etc/profile > /tmp/profile.
    ↪ tmp
79     sudo $OOO_UNO_PATH/unopkg remove --shared ScriptProviderForooRexx
    ↪ .oxt
80     sudo rm -rf $OOO_SCRIPTLIB_DIR/javascript/HowtoCreateApiInfo
81     sudo rm -rf $OOO_SCRIPTLIB_DIR/python/pythonSamples
82     sudo rm -rf $OOO_SCRIPTLIB_DIR/oorexx/ooRexx_examples
83     sudo rm -rf $OOO_SCRIPTLIB_DIR/oorexx/wu_tools
84 fi
85
86 sudo cp /tmp/profile.tmp /etc/profile
87 sudo rm /tmp/profile.tmp
88
89 echo ""
90 echo "Removing CLASSPATH settings for LibreOffice..."
91 echo ""
92
93 LORESULT=`lipo -info /Applications/LibreOffice.app/Contents/program/
    ↪ soffice | grep i386;`
94
95 if [[ -e $LO_APP_DIR && ! -z $LORESULT ]]
96 then
97     sudo grep -vx "export CLASSPATH=\$CLASSPATH:/Applications/
    ↪ LibreOffice.app/Contents/program:/Applications/LibreOffice.
    ↪ app/Contents/basis-link/ure-link/share/java/juh.jar:/
    ↪ Applications/LibreOffice.app/Contents/basis-link/ure-link/
    ↪ share/java/jurt.jar:/Applications/LibreOffice.app/Contents/
    ↪ basis-link/ure-link/share/java/ridl.jar
98 export CLASSPATH=\$CLASSPATH:/Applications/LibreOffice.app/Contents/basis
    ↪ -link/program/classes/unoil.jar" /etc/profile > /tmp/profile.tmp

```

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```
99      sudo $LO_UNO_PATH/unopkg remove --shared ScriptProviderForooRexx.  
      ↪ oxt  
100      sudo rm -rf $LO_SCRIPTLIB_DIR/javascript/HowtoCreateApiInfo  
101      sudo rm -rf $LO_SCRIPTLIB_DIR/python/pythonSamples  
102      sudo rm -rf $LO_SCRIPTLIB_DIR/oorexx/ooRexx_examples  
103      sudo rm -rf $LO_SCRIPTLIB_DIR/oorexx/wu_tools  
104  fi  
105  
106  sudo cp /tmp/profile.tmp /etc/profile  
107  sudo rm /tmp/profile.tmp  
108  
109  echo ""  
110  echo "Removing CLASSPATH settings for BSF4ooRexx..."  
111  echo ""  
112  
113  sudo grep -vx "export CLASSPATH=\$CLASSPATH:/opt/BSF4ooRexx/Classes/bsf-  
      ↪ rexx-engine.jar  
114  export CLASSPATH=\$CLASSPATH:/opt/BSF4ooRexx/Classes/bsf-v400-20090910.  
      ↪ jar" /etc/profile > /tmp/profile.tmp  
115  
116  sudo cp /tmp/profile.tmp /etc/profile  
117  sudo rm /tmp/profile.tmp  
118  
119  echo ""  
120  echo "Removing Application Bundle..."  
121  echo ""  
122  
123  sudo rm -rf /Applications/ooRexx.app  
124  
125  echo ""  
126  echo "Removing the ooRexx directory..."  
127  echo ""  
128  
129  sudo rm -rf /opt/ooRexx  
130  
131  
132  echo ""  
133  echo "Cleaning up..."  
134  echo ""  
135  
136  sudo /System/Library/Frameworks/CoreServices.framework/Versions/Current/  
      ↪ Frameworks/LaunchServices.framework/Versions/Current/Support/  
      ↪ lsregister -kill -r -domain system -domain local -domain  
137  
138  sudo rm -rf /tmp/ooRexx_uninstall_preflight.sh  
139  
140  if [ $1 = "uninstall" ]  
141  then
```

```

142         osascript -e 'tell app "System Events" to display dialog "ooRexx
           ↳ and BSF4ooRexx have successfully been removed!" buttons "OK
           ↳ " default button 1 with title "Success!" with icon 1'
143     fi
144
145     if [ $1 = "reinstall" ]
146     then
147         sudo sh /tmp/sources/reinstall.sh
148         sudo cp -r /tmp/sources/Applications/ooRexx.app/Contents/
149         sudo rm -rf /tmp/sources
150     fi
151
152     sudo rm $0

```

Listing 49: The BSF4ooRexx uninstall script.

6.2.19 The Mac OS X Installer's 64 bit BSF4ooRexx Uninstall Script

```

1  #!/bin/sh
2
3  # Name: BSF4ooRexx_uninstall_preflight.sh
4  # Purpose: Uninstall script for BSF4ooRexx
5  # Author: Juergen Hesse, Manuel Paar
6  # Version: 1.0
7  #
8  # ----- Apache Version 2.0 license
9  # ↳ -----
10 #     Copyright (C) 2011 Juergen Hesse, Manuel Paar
11 #
12 #     Licensed under the Apache License, Version 2.0 (the "License");
13 #     you may not use this file except in compliance with the License.
14 #     You may obtain a copy of the License at
15 #
16 #         http://www.apache.org/licenses/LICENSE-2.0
17 #
18 #     Unless required by applicable law or agreed to in writing, software
19 #     distributed under the License is distributed on an "AS IS" BASIS,
20 #     WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
21 #     ↳ implied.
22 #     See the License for the specific language governing permissions and
23 #     limitations under the License.
24 #
25 # ↳ -----
26 # ↳ -----
27
28 BSF4OOREXX_FRAMEWORK=/opt/BSF4ooRexx

```

```

25
26 BIN_DIR=/usr/bin
27 JAVA_LIB_DIR=/usr/lib/java
28
29 OOO_APP_DIR=/Applications/OpenOffice.org.app
30 OOO_SCRIPTLIB_DIR=$OOO_APP_DIR/Contents/basis-link/share/Scripts
31 OOO_UNO_PATH=$OOO_APP_DIR/Contents/program
32 OOO_JAVA_PATH=$OOO_APP_DIR/Contents/basis-link/ure-link/share/java
33 OOO_UNOIL_PATH=$OOO_APP_DIR/Contents/basis-link/program/classes
34
35 LO_APP_DIR=/Applications/LibreOffice.app
36 LO_SCRIPTLIB_DIR=$LO_APP_DIR/Contents/basis-link/share/Scripts
37 LO_UNO_PATH=$LO_APP_DIR/Contents/program
38 LO_JAVA_PATH=$LO_APP_DIR/Contents/basis-link/ure-link/share/java
39 LO_UNOIL_PATH=$LO_APP_DIR/Contents/basis-link/program/classes
40
41 echo ""
42 echo "Removing executable files from $BIN_DIR..."
43 echo ""
44
45 sudo rm $BIN_DIR/BSF.CLS
46 sudo rm $BIN_DIR/BSF_OnTheFly.cls
47 sudo rm $BIN_DIR/rexxj2.sh
48 sudo rm $BIN_DIR/rexxj.sh
49 sudo rm $BIN_DIR/rgf_util2.rex
50 sudo rm $BIN_DIR/UNO.CLS
51 sudo rm $BIN_DIR/UNO_API_info.rxo
52 sudo rm $BIN_DIR/UNO_CREATE_INTERFACE_LIST.RXO
53 sudo rm $BIN_DIR/UNO_ReflectionUtil.cls
54 sudo rm $BIN_DIR/UNO_XINTERFACES.RXO
55
56 echo ""
57 echo "Removing framework directory $BSF4OOREXX_FRAMEWORK..."
58 echo ""
59
60 sudo rm -rf $BSF4OOREXX_FRAMEWORK
61
62 echo ""
63 echo "Removing dynamic link library from $JAVA_LIB_DIR..."
64 echo ""
65
66 sudo rm $JAVA_LIB_DIR/libBSF4ooRexx.dylib
67 sudo rm /usr/lib/libBSF4ooRexx.dylib
68
69 echo ""
70 echo "Removing CLASSPATH settings for OpenOffice..."
71 echo ""
72

```

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```
73 OOORESULT=`lipo -info /Applications/OpenOffice.org.app/Contents/program/
    ↳ soffice | grep x86_64;`
74
75 if [[ -e $OOO_APP_DIR && ! -z $OOORESULT ]]
76     then
77         sudo grep -vx "export CLASSPATH=\$CLASSPATH:/Applications/
            ↳ OpenOffice.org.app/Contents/program:/Applications/
            ↳ OpenOffice.org.app/Contents/basis-link/ure-link/share/java/
            ↳ juh.jar:/Applications/OpenOffice.org.app/Contents/basis-
            ↳ link/ure-link/share/java/jurt.jar:/Applications/OpenOffice.
            ↳ org.app/Contents/basis-link/ure-link/share/java/ridl.jar
78 export CLASSPATH=\$CLASSPATH:/Applications/OpenOffice.org.app/Contents/
    ↳ basis-link/program/classes/unoil.jar" /etc/profile > /tmp/profile.
    ↳ tmp
79         sudo $OOO_UNO_PATH/unopkg remove --shared ScriptProviderForooRexx
            ↳ .oxt
80         sudo rm -rf $OOO_SCRIPTLIB_DIR/javascript/HowtoCreateApiInfo
81         sudo rm -rf $OOO_SCRIPTLIB_DIR/python/pythonSamples
82         sudo rm -rf $OOO_SCRIPTLIB_DIR/oorexx/ooRexx_examples
83         sudo rm -rf $OOO_SCRIPTLIB_DIR/oorexx/wu_tools
84     fi
85
86 sudo cp /tmp/profile.tmp /etc/profile
87 sudo rm /tmp/profile.tmp
88
89 echo ""
90 echo "Removing CLASSPATH settings for LibreOffice..."
91 echo ""
92
93 LORESULT=`lipo -info /Applications/LibreOffice.app/Contents/program/
    ↳ soffice | grep x86_64;`
94
95 if [[ -e $LO_APP_DIR && ! -z $LORESULT ]]
96     then
97         sudo grep -vx "export CLASSPATH=\$CLASSPATH:/Applications/
            ↳ LibreOffice.app/Contents/program:/Applications/LibreOffice.
            ↳ app/Contents/basis-link/ure-link/share/java/juh.jar:/
            ↳ Applications/LibreOffice.app/Contents/basis-link/ure-link/
            ↳ share/java/jurt.jar:/Applications/LibreOffice.app/Contents/
            ↳ basis-link/ure-link/share/java/ridl.jar
98 export CLASSPATH=\$CLASSPATH:/Applications/LibreOffice.app/Contents/basis
    ↳ -link/program/classes/unoil.jar" /etc/profile > /tmp/profile.tmp
99         sudo $LO_UNO_PATH/unopkg remove --shared ScriptProviderForooRexx.
            ↳ oxt
100         sudo rm -rf $LO_SCRIPTLIB_DIR/javascript/HowtoCreateApiInfo
101         sudo rm -rf $LO_SCRIPTLIB_DIR/python/pythonSamples
102         sudo rm -rf $LO_SCRIPTLIB_DIR/oorexx/ooRexx_examples
103         sudo rm -rf $LO_SCRIPTLIB_DIR/oorexx/wu_tools
104     fi
```

```

105
106 sudo cp /tmp/profile.tmp /etc/profile
107 sudo rm /tmp/profile.tmp
108
109 echo ""
110 echo "Removing CLASSPATH settings for BSF4ooRexx..."
111 echo ""
112
113 sudo grep -vx "export CLASSPATH=\$CLASSPATH:/opt/BSF4ooRexx/Classes/bsf-
    ↪ rexx-engine.jar
114 export CLASSPATH=\$CLASSPATH:/opt/BSF4ooRexx/Classes/bsf-v400-20090910.
    ↪ jar" /etc/profile > /tmp/profile.tmp
115
116 sudo cp /tmp/profile.tmp /etc/profile
117 sudo rm /tmp/profile.tmp
118
119 echo ""
120 echo "Removing Application Bundle..."
121 echo ""
122
123 sudo rm -rf /Applications/ooRexx.app
124
125 echo ""
126 echo "Removing the ooRexx directory..."
127 echo ""
128
129 sudo rm -rf /opt/ooRexx
130
131
132 echo ""
133 echo "Cleaning up..."
134 echo ""
135
136 sudo /System/Library/Frameworks/CoreServices.framework/Versions/Current/
    ↪ Frameworks/LaunchServices.framework/Versions/Current/Support/
    ↪ lsregister -kill -r -domain system -domain local -domain
137
138 sudo rm -rf /tmp/ooRexx_uninstall_preflight.sh
139
140 if [ $1 = "uninstall" ]
141     then
142         osascript -e 'tell app "System Events" to display dialog "ooRexx
            ↪ and BSF4ooRexx have successfully been removed!" buttons "OK
            ↪ " default button 1 with title "Success!" with icon 1'
143     fi
144
145 if [ $1 = "reinstall" ]
146     then
147         sudo sh /tmp/sources/reinstall.sh

```

```

148         sudo cp -r /tmp/sources /Applications/ooRexx.app/Contents/
149         sudo rm -rf /tmp/sources
150 fi
151
152 sudo rm $0

```

Listing 50: The BSF4ooRexx uninstall script.

6.2.20 The Mac OS X Installer's ooRexx Uninstall Script

```

1  #!/bin/sh
2
3  # Name: ooRexx_uninstall_preflight.sh
4  # Purpose: Uninstall script for ooRexx
5  # Author: Juergen Hesse, Manuel Paar
6  # Version: 1.0
7  #
8  # ----- Apache Version 2.0 license
9  #   ↳ -----
10 #   Copyright (C) 2011 Juergen Hesse, Manuel Paar
11 #
12 #   Licensed under the Apache License, Version 2.0 (the "License");
13 #   you may not use this file except in compliance with the License.
14 #   You may obtain a copy of the License at
15 #
16 #       http://www.apache.org/licenses/LICENSE-2.0
17 #
18 #   Unless required by applicable law or agreed to in writing, software
19 #   distributed under the License is distributed on an "AS IS" BASIS,
20 #   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
21 #   ↳ implied.
22 #   See the License for the specific language governing permissions and
23 #   limitations under the License.
24 #
25 #   ↳ -----
26 #   ↳
27
28 echo $SCRIPT_NAME: Removing links from /usr/lib.
29 rm -f /usr/lib/libhostemu.*
30 rm -f /usr/lib/librexx.*
31 rm -f /usr/lib/librexxapi.*
32 rm -f /usr/lib/librexxutil.*
33 rm -f /usr/lib/librxmath.*
34 rm -f /usr/lib/librxregexp.*
35 rm -f /usr/lib/librxsock.*

```

```

33 rm -f /usr/lib/librxunixsys.*
34
35 echo $SCRIPT_NAME: Removing links from /usr/bin.
36 rm -f /usr/bin/csvStream.cls
37 rm -f /usr/bin/mime.cls
38 rm -f /usr/bin/oorexx-config
39 rm -f /usr/bin/org.rexxla.oorexx.rxapid.plist
40 rm -f /usr/bin/rexx
41 rm -f /usr/bin/rexx.cat
42 rm -f /usr/bin/rexx.img
43 rm -f /usr/bin/rexxc
44 rm -f /usr/bin/rexximage
45 rm -f /usr/bin/rexxtry.rex
46 rm -f /usr/bin/rxdelipc
47 rm -f /usr/bin/rxftp.cls
48 rm -f /usr/bin/rxmigrate
49 rm -f /usr/bin/rxqueue
50 rm -f /usr/bin/rxregexp.cls
51 rm -f /usr/bin/rxsubcom
52 rm -f /usr/bin/smtplib
53 rm -f /usr/bin/socket.cls
54 rm -f /usr/bin/streamssocket.cls
55
56 echo $SCRIPT_NAME: Removing man pages from /usr/share/man/man1
57 rm -f /usr/share/man/man1/oorexx-config.1
58 rm -f /usr/share/man/man1/rexx.1
59 rm -f /usr/share/man/man1/rexxc.1
60 rm -f /usr/share/man/man1/rxmigrate.1
61 rm -f /usr/share/man/man1/rxqueue.1
62 rm -f /usr/share/man/man1/rxsubcom.1
63
64 echo $SCRIPT_NAME: Removing headers from /usr/include
65 rm -f /usr/include/oorexxapi.h
66 rm -f /usr/include/oorexxerrors.h
67 rm -f /usr/include/rexx.h
68 rm -f /usr/include/rexxapidefs.h
69 rm -f /usr/include/rexxapitypes.h
70 rm -f /usr/include/rexxplatformapis.h
71 rm -f /usr/include/rexxplatformdefs.h
72
73 echo $SCRIPT_NAME: Shutting down rxapi daemon
74 launchctl unload -w /Library/LaunchDaemons/org.rexxla.oorexx.rxapid.plist
75 killall rxapi
76
77 echo $SCRIPT_NAME: Removing rexx LaunchDeamon
78 rm -f /Library/LaunchDaemons/org.rexxla.oorexx.rxapid.plist
79 rm -f /usr/bin/rxapi
80
81 echo $SCRIPT_NAME: Removal of prior version of ooRexx complete.

```



```

82
83 sh /tmp/BSF4ooRexx_uninstall_preflight.sh $1

```

Listing 51: The Installer's ooRexx uninstall script.

6.2.21 The Mac OS X Installer's Reinstall Script

```

1  #!/bin/sh
2
3  # Name: reinstall.sh
4  # Purpose: Reinstall script for ooRexx and BSF4ooRexx
5  # Author: Juergen Hesse, Manuel Paar
6  # Version: 1.0
7  #
8  # ----- Apache Version 2.0 license
9  #   ↳ -----
10 #   Copyright (C) 2011 Juergen Hesse, Manuel Paar
11 #
12 #   Licensed under the Apache License, Version 2.0 (the "License");
13 #   you may not use this file except in compliance with the License.
14 #   You may obtain a copy of the License at
15 #
16 #       http://www.apache.org/licenses/LICENSE-2.0
17 #
18 #   Unless required by applicable law or agreed to in writing, software
19 #   distributed under the License is distributed on an "AS IS" BASIS,
20 #   WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
21 #   ↳ implied.
22 #   See the License for the specific language governing permissions and
23 #   ↳ limitations under the License.
24 #   ↳ -----
25 #   ↳ -----
26
27 SOURCES_DIR=/tmp/sources
28
29 BSF4OOREXX_FRAMEWORK=/opt/BSF4ooRexx
30
31 APP_PATH=/Applications
32
33 echo ""
34 echo "Reinstalling ooRexx..."
35 echo ""
36
37 sudo cp -r $SOURCES_DIR/ooRexx /opt/

```

```
36 echo ""
37 echo "Reinstalling BSF4ooRexx..."
38 echo ""
39
40 sudo cp -r $SOURCES_DIR/BSF4ooRexx /opt/
41
42 echo ""
43 echo "Reinstalling Application..."
44 echo ""
45
46 sudo cp -r $SOURCES_DIR/ooRexx.app $APP_PATH/
47
48 echo ""
49 echo "Running scripts..."
50 echo ""
51
52 sudo sh $SOURCES_DIR/BSF4ooRexx_install_postflight.sh
53
54 osascript -e 'tell app "System Events" to display dialog "ooRexx and
    ↳ BSF4ooRexx have successfully been reinstalled!" buttons "OK"
    ↳ default button 1 with title "Success!" with icon 1'
```

Listing 52: The Mac OS X reinstall script.

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