

TUG-MACTEX-FOR-DVD

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1. MACTEX

This is the portion of the TUG documentation which deals with making the MacTeX install package for the DVD. The ultimate product of this work will be a folder named MacTeX-Install to be placed in the DVD mactex folder. This install folder will contain one document, “MacTeX Install Part 1” , an install package constructed below, “MacTeX Install Part 2.pkg”, and a folder named TLprofiles.

The RLprofiles folder should duplicate the TLprofiles folder inside TeXLive-2019, as constructed earlier.

2. CONTENTS

This is a final product of the build directory, built for DVD distribution.

A clean package file will contain

- Files “MacTeXDVDMaker” and “signPackage.sh”
- Files “background.jpg”, “License.rtf”, “ReadMe.rtf”, and “Welcome.rtf”
- A folder MacTeX-Install, with two files named “MacTeX Install Part 1” and “MacTeX Install Part 3”.
- scripts_ghostscript folder, containing files “postinstall” and “setloginpath”
- scripts_gui folder, containing file “postinstall”
- scripts_texdist folder, containing files “Description.rtf”, “postinstall”, “setloginpath”, “setmanpath”, “texdist”, “TeXDist-description.rtf”, “TeXDistVersion”, “TeX-ManPath”, and “TeXPath”
- “TUG” folder with this document

This package is easy to maintain. To update the package for a new year, edit the three rtf files, changing the package name to reflect the new date and release date.

Date: January 5, 2019.

3. BUILDING MAC_{TEX} INSTALL PART 2 WITH PACKAGEMAKER

There are two copies of the Packagemaker Template to build part 2 of the Mac_{TeX} Install: Mac_{TeX}DVDMaker and Mac_{TeX}DVDMaker copy. The second is a backup of the first and the most reliable information in case the first becomes corrupted. Material below is really just a supplemental backup.

Edit Mac_{TeX}DVDMaker, the Packagemaker project file, using the GUI interface, as follows.

- (1) Click the top item on the left. The right side will change to a view with three tabs. First select the Configuration tab. Edit so
 - (a) Title: Mac_{TeX} Install Part 2
 - (b) User Sees: Easy and Custom Intall
 - (c) Install Destination: System volume
 - (d) Certificate: Leave this blank. You might think that putting a certificate name here would correctly sign the package, but experiments show that it does not. The package needs to be signed after it is constructed.
 - (e) Description: Empty
- (2) The Requirements and Actions tab entries for the top item can be left blank

Click the entry TeXDist in the Contents section on the left. The right side will change to a view with two tabs.

- (1) Select the Configuration tab. Edit so
 - (a) Choice Name: TeXDist
 - (b) Identifier: choice1
 - (c) Initial State: Selected and Enabled
 - (d) Destination: /
 - (e) Tooltip: Leave Blank
 - (f) Description: Leave Blank
- (2) The Requirements tab entries for this contents item can be left blank
- (3) Open the Library entry in the bottom left column. This item should show a “Library” directory, obtained by dragging ../TeXDist/root/Library to the left column. The right side will change to a view with four tabs. It is not necessary to edit the items under the Contents or Components tabs. The items under the Configuration tab should be edited as follows:

- (a) Install: ../TeXDist/root/Library (The item on the right should have selected “Relative To Project”)
- (b) Destination: /Library (The item on the right should have selected “Relative To Project”)
- (c) Do not check “Allow custom location”
- (d) Patch: No patch root selected
- (e) Package Identifier: org.tug.texdist
- (f) Package Version: 1.0
- (g) Restart Action: None
- (h) Check “Require admin authentication”
- (i) PackageLocation: Self-Contained

The items under the Scripts tab should be edited to read

- (a) Scripts directory: scripts_texdist (The item on the right should have selected “Relative To Project”)
- (b) Preinstall: Leave Blank
- (c) Postinstall: scripts_texdist/postinstall (The item on the right should have selected “Relative To Project”)

Click the entry GUI-Applications in the Contents section on the left. The right side will change to a view with two tabs.

- (1) Select the Configuration tab. Edit so
 - (a) Choice Name: GUI-Applications
 - (b) Identifier: choice2
 - (c) Initial State: Selected and Enabled
 - (d) Destination: /
 - (e) Tooltip: Leave Blank
 - (f) Description: Leave Blank
- (2) The Requirements tab entries for this contents item can be left blank
- (3) Open the GUI-Applications entry in the bottom left column. Add an “Applications” directory to this item by dragging ../GUI-Applications/root/Applications to the left column. The right side will change to a view with four tabs. It is not necessary to edit the items under the Contents tab. But it is *very important* to edit the

items under the Components tab, turning off all boxes labeled “Allow Relocation.” The items under the Configuration tab should be edited as follows:

- (a) Install: ../GUI-Applications/root/Applications (The item on the right should have selected “Relative To Project”)
- (b) Destination: /Applications (The item on the right should have selected “Relative To Project”)
- (c) Do not check “Allow custom location”
- (d) Patch: No patch root selected
- (e) Package Identifier: org.tug.mactex.gui2019
- (f) Package Version: 1.0
- (g) Restart Action: None
- (h) Check “Require admin authentication”
- (i) PackageLocation: Self-Contained

The items under the Scripts tab should be edited to read

- (a) Scripts directory: scripts_gui (The item on the right should have selected “Relative To Project”)
- (b) Preinstall: Leave Blank
- (c) Postinstall: scripts_gui/postinstall (The item on the right should have selected “Relative To Project”)

Click the entry Ghostscript-9.26 in the Contents section on the left. The right side will change to a view with two tabs.

- (1) Select the Configuration tab. Edit so
 - (a) Choice Name: Ghostscript-9.26
 - (b) Identifier: choice3
 - (c) Initial State: Selected and Enabled
 - (d) Destination: /
 - (e) Tooltip: Leave Blank
 - (f) Description: Leave Blank
- (2) The Requirements tab entries for this contents item can be left blank
- (3) Open the Ghostscript-9.26 entry in the bottom left column. This item should show a “local” directory, obtained by dragging ../Ghostscript-9.26/root/usr/local to the

left column. The right side will change to a view with four tabs. It is not necessary to edit the items under the Contents or Components tabs. The items under the Configuration tab should be edited as follows:

- (a) Install: ../Ghostscript-9.26/root/usr/local (The item on the right should have selected “Relative To Project”)
- (b) Destination: /usr/local (The item on the right should have selected “Relative To Project”)
- (c) Do not check “Allow custom location”
- (d) Patch: No patch root selected
- (e) Package Identifier: org.tug.mactex.ghostscript9.26
- (f) Package Version: 1.0
- (g) Restart Action: None
- (h) Check “Require admin authentication”
- (i) PackageLocation: Self-Contained

The items under the Scripts tab should be edited to read

- (a) Scripts directory: scripts_ghostscript (The item on the right should have selected “Relative To Project”)
- (b) Preinstall: Leave Blank
- (c) Postinstall: scripts_ghostscript/postinstall (The item on the right should have selected “Relative To Project”)

4. BUILDING

After verifying all these items, build the install package by clicking the “Build” icon. When asked to select a name, choose “MacTeX Install Part 2-Temp.pkg”.

5. SIGNING

After the package has been made, sign it by executing the following line in Terminal:

```
sh signPackage.sh
```

This script simply calls

```
productsign --sign "Developer ID Installer: Richard Koch" old-name new-name
```

where “old-name” is MacTeX Install Part 2-Temp.pkg and “new-name” is MacTeX Install Part 2.pkg.