

# TUG-FIXMACTEX2013

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## 1. FIXMACTEX2013

**Warning:** It is important that the folders in which packages are built live on the hard disk rather than an external disk. Building constructs folders named “root” which are copies of material to be installed. This root folder and its contents are often owned by root. But material on an external drive is owned by the user instead.

MacTeX-2011 and BasicTeX-2011 originally shipped with Build 151 of the TeX Dist Preference Pane. This version was seriously broken. It wrote incorrect “texbin” links into Contents/Programs. When users switched to an earlier distribution, or changed from 64 bit binaries to 32 bit binaries, the Pane appeared to make the change. But after that, /usr/texbin didn’t point to a folder containing binaries.

This short install package fixes the problem by reverting the Preference Pane to build 150, and fixing the broken links created by build 151. It also reinstalls TeX in /etc/paths.d and /etc/manpaths.d, fixing a bug created when users install TeX and then upgrade their system. Finally, if users install MacTeX-2013 and then later install an earlier version, say MacTeX-2010, they get an old version of the Preference Pane. This package fixes that problem by upgrading to Build 150 of the Pane.

Some users install MacTeX and then discover that their front end cannot access any of the binaries to typeset. That is because /usr/local has incorrect permissions. This is also fixed by FixMacTeX2013.

## 2. DETAILS

A clean package file will contain

- Files “buildPackage.sh”
- Files “background.jpg”, “License.rtf”, “ReadMe.rtf”, “Welcome.rtf”
- scripts folder containing files “Description.rtf”, “postinstall”, “texdist”, “TeXDist-description.rtf”, “TeXDistVersion”, “TeXManPath”, “TeXPath” and a folder named PrefPane containing “Info.plist” and the “TeX Distribution” preference pane

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- FixMacTeXBuild, a project file for Packagemaker
- “TUG” folder with this document

It is easy to create the root file from which the Package is built. Simply

```
sudo sh buildPackage.sh
```

### 3. BUILDING THE FINAL INSTALL PACKAGE WITH PACKAGEMAKER

Now edit FixMacTeXBuild, 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: FixMacTeX2013
  - (b) User Sees: Easy Install Only
  - (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 item Click the entry FixMacTeX2013 in the Contents section on the left. The right side will change to a view with two tabs. Select the Configuration tab. Edit so
  - (a) Choice Name: FixMacTeX2013
  - (b) Identifier: choice1
  - (c) Initial State: Selected and Enabled
  - (d) Destination: Leave Blank
  - (e) Tooltip: Leave Blank
  - (f) Description: Leave Blank
- (3) The Requirements tab entries for this contents item can be left blank
- (4) Open the FixMacTeX2013 entry in the bottom left column. This item should show a “/usr/local’ directory, obtained by dragging root/user/local to the left column. The right side will change to a view with four tabs. The item under the Components tab can be left blank. It is not necessary to edit the items under the Contents tab. The items under the Configuration tab should be edited as follows:

- (a) Install: 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.fixmactex2013
- (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 (The item on the right should have selected “Relative To Project”)
- (b) Preinstall: Leave Blank
- (c) Postinstall: scripts/postinstall (The item on the right should have selected “Relative To Project”)

After verifying all these items, build the install package by clicking the “Build” icon. When asked to select a name, choose “FixMacTeX2013-Temp”. 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 FixMacTeX2013-Temp.pkg and “new-name” is FixMacTeX2013.pkg.

Packagemaker will report one warning. The warning is an incorrect permission on a link, and I believe the permission is correct, since it matches permissions set for links when TeX Live is compiled.