

# TUG-SETUP-2015

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## 1. CONTENTS

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.

This short install package fixed the problem by reverting the Preference Pane to build 150, and fixing the broken links created by build 151.

Since then, the goal of the package has changed to fixing problems caused by updating the system. The package is added to /Applications/TeX, and users can fix their systems after updating by installing this package. The package can fix both MacTeX-2015 and BasicTeX-2015.

This package installs the correct Preference Pane for the upgrade. It also reinstalls TeX in /etc/paths.d and /etc/manpaths.d. The package fixes /usr/texbin if broken.

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 Setup2015.

Finally, the package reinstalls the TeX Dist structure for both BasicTeX-2015 and MacTeX-2015. This is useful if a user installs these using the TeX Live script, but later wants to use the Pref Pane.

## 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”

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- A folder PreferencePanels containing the two versions of the PreferencePane.
- SetupBuilt, 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

The package contains templates SetupBuild and SetupBuild.copy. The second is the primary backup of the first. The material below forms a sort of supplemental backup.

Edit SetupBuild, 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: Setup2015
  - (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 Setup2015 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: Setup2015
  - (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 Setup2015 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.setup2015
- (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 “Setup2015-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 Setup2015-Temp.pkg and “new-name” is Setup2015.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.