**1. Install Homebrew and set PATH**

/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

# Add to PATH (Apple Silicon)

/opt/homebrew/bin/brew -v

echo 'eval "$(/opt/homebrew/bin/brew shellenv)"' >> ~/.zprofile

eval "$(/opt/homebrew/bin/brew shellenv)"

**2. Install Tcl/Tk 8.x**

brew install tcl-tk@8

**3. Remove macOS quarantine flags**

sudo xattr -dr com.apple.quarantine /Applications/EnergyPlus-25-1-0

**4. Link Tcl/Tk script libraries into EnergyPlus**

sudo mkdir -p /Applications/EnergyPlus-25-1-0/python\_lib/tcl8.6

sudo mkdir -p /Applications/EnergyPlus-25-1-0/python\_lib/tk8.6

sudo ln -sf /opt/homebrew/Cellar/tcl-tk@8/8.6.17/lib/tcl8.6/\* /Applications/EnergyPlus-25-1-0/python\_lib/tcl8.6/

sudo ln -sf /opt/homebrew/Cellar/tcl-tk@8/8.6.17/lib/tk8.6/\* /Applications/EnergyPlus-25-1-0/python\_lib/tk8.6/

**5. Copy actual dylibs into EP’s loader path**

sudo rm -f /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/libtcl8.6.dylib

sudo rm -f /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/libtk8.6.dylib

sudo cp -L /opt/homebrew/opt/tcl-tk@8/lib/libtcl8.6.dylib /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/

sudo cp -L /opt/homebrew/opt/tcl-tk@8/lib/libtk8.6.dylib /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/

ls -l /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/libtcl8.6.dylib

ls -l /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/libtk8.6.dylib

# Make sure there is NO "->" arrow (not symlinks)

**6. Code-sign binaries**

**6.1 Entitlements file**

cat > /tmp/ep\_entitlements.plist <<'EOF'

<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE plist PUBLIC "-//Apple//DTD PLIST 1.0//EN" "http://www.apple.com/DTDs/PropertyList-1.0.dtd">

<plist version="1.0">

<dict>

<key>com.apple.security.cs.disable-library-validation</key>

<true/>

</dict>

</plist>

EOF

**6.2 Sign libraries and \_tkinter**

sudo codesign --force --sign - /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/libtcl8.6.dylib

sudo codesign --force --sign - /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/libtk8.6.dylib

sudo codesign --force --sign - /Applications/EnergyPlus-25-1-0/python\_lib/lib-dynload/\_tkinter.cpython-312-darwin.so

**6.3 Sign the main EPLaunch.app**

sudo codesign --force --deep --sign - \

--entitlements /tmp/ep\_entitlements.plist \

/Applications/EnergyPlus-25-1-0/EPLaunch.app

**6.4 Sign the EnergyPlus CLI as well**

sudo codesign --force --deep --sign - \

--entitlements /tmp/ep\_entitlements.plist \

/Applications/EnergyPlus-25-1-0/energyplus

**7. Run EPLaunch**

/usr/bin/env -u PYTHONPATH -u PYTHONHOME -u TCL\_LIBRARY -u TK\_LIBRARY \

-u CONDA\_PREFIX -u CONDA\_DEFAULT\_ENV -u CONDA\_SHLVL \

PATH="/usr/bin:/bin:/usr/sbin:/sbin" \

TCL\_LIBRARY="/Applications/EnergyPlus-25-1-0/python\_lib/tcl8.6" \

TK\_LIBRARY="/Applications/EnergyPlus-25-1-0/python\_lib/tk8.6" \

TCLLIBPATH="/Applications/EnergyPlus-25-1-0/python\_lib/tcl8.6 /Applications/EnergyPlus-25-1-0/python\_lib/tk8.6" \

/Applications/EnergyPlus-25-1-0/EPLaunch.app/Contents/MacOS/EPLaunch