

Final Release Engineering Checklist (FREC)

This checklist helps to build and publish a final release version of SimThyr. It should be filled-in during the final steps of publishing a non-beta version.

Version: _____

Date: _____

Step 1 (Quality of Code):

- All features intended for this release have been implemented.
- All known major bugs have been resolved in the final version of the source code.

Comments: _____

Step 2 (Final Checks on Major Platforms):

- No major functional or visual bugs on macOS:
 - PPC: Intel:
 - 10.4 Tiger 10.6 Snow Leopard 10.7 Lion
 - 10.5 Leopard 10.8 Mountain Lion 10.9 Mavericks
 - 10.10 Yosemite 10.11 El Capitan
 - 10.12 Sierra

- No major functional or visual bugs on Windows:
 - 2000 XP Vista
 - Windows 7 Windows 8 Windows 10

- No major functional or visual bugs on Linux:
Checked Distributions: _____

Comments: _____

Step 3 (Build for Platforms):

- Debugging code and GDB symbols removed.
- Build for macOS:
 - PPC: For backwards-compatibility compile preferably with Mac OS X 10.4 Tiger or with Mac OS X 10.5 Leopard and library bindings for Tiger.
 - Intel: For backwards-compatibility compile preferably with Mac OS X 10.6 Snow Leopard.
- Build for Windows.
- Prepare curated source code for Linux.

Comments: _____

Step 4 (Final Assembly):

- macOS:
 - Create Universal Binary from PPC and Intel versions with the `lipo` command.
 - Create self-contained app by moving the code into the bundle and by adding the prepared Mac resources (icon, plist file etc.).
 - Code-sign the app with `codesign -f` and check for success with `codesign -d` and `codesign -vvvv`.
 - Create DMG file.
- Windows:
 - Create an installer with Inno Setup and the prepared installer script.
 - Create a zip archive.
- Linux:
 - Create a zip archive.

Comments: _____

Step 5 (Upload and Publication):

- Upload all versions to SourceForge.
- Update current platform-specific version settings in SourceForge.
- Update version history.
- Update and upload handbook.
- Announce in mailing list, blog, SciCrunch, social networks etc.

Comments: _____

Final Comments:

Signatures:

Release engineer

Project manager / senior author