**How to tell if a FLOSS project is doomed to FAIL – Eucalyptus**

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| **Aspect/Range** | **Rating** | **Comments** |
| **Size** |  |  |
| Source code > 100 MB. [ +5 points ] | 5 | Unpacked = 120 MB |
| source code also exceeds 100 MB when it is compressed [ +5 points of FAIL ] | 5 | Complete source = 102 MB compressed |
| **Source Control** |  |  |
| no publicly available source control (e.g. cvs, svn, bzr, git) [ +10 points ] | 0 | Aspects of Eucalyptus use git and svn,  respectively |
| **Publicly available source control, but** |  |  |
| no web viewer for it [ +5 points} | 5 | As far as I know, source control is only done through terminal |
| no documentation on how to use it for new users [ +5 points] | 5 | Documentation assumes prior knowledge of source control software |
| You've written your own source control for this code [ +30 points] | 0 | Git seems to work fine |
| You don't actually use the existing source control [ +50 points] | 0 | “ |
| **Building From Source** |  |  |
| no documentation on how to build from source [ +20 points] | 0 | Well-documented Installation guide |
| Documentation exists but it doesn't work [ +10 points] | 0 | Successful build reported by Dave |
| **The source is configured:** |  |  |
| handwritten shell script [ +10 points] | 10 | All configuration done from terminal commands |
| editing flat text config files [ +20 points] | 0 | Not required |
| editing code header files [ +30 points] | 0 | Not required |
| source isn't configurable [ +50 points] | 0 | N/A |
| **The source builds:** |  |  |
| Not using GNU Make [ +10 points] | 0 | make is used |
| third-party tools [ +50 points] | 0 | N/A |
| your own build tool [ +100 points] | 0 | N/A |
| The build has no tests [ +5 points] | 0 | N/A |
| **Java** |  |  |
| build process doesn't use standard build tool (Ant, Maven, etc) [ +10 points | 0 | N/A |
| runtime artifacts rely on native libraries [ +5 points] | 0 | Java is a dependency, but not part of  The actual build |
| build has no tests [ +20 points] |  |  |
| **Bundling** |  |  |
| source only comes with other code projects that it depends on [ +20 points] | 0 | Dependencies are readily available, downloaded separately |
| cannot be built without first building the bundled code bits [ +10 points] | 0 | N/A |
| you have modified those other bundled code bits [ +40 points] | 0 | N/A |
| **Libraries** |  |  |
| only builds static libraries [ +20 points] | 0 | Makes use of standard/shared libraries |
| can build shared libraries, but only unversioned ones [ +20 points] | 0 | “ |
| does not try to use system libraries if present [ +20 points] | 0 | “ |
| **Java** |  |  |
| code builds native deliverables [ +5 ] |  |  |
| **System Install** |  |  |
| tries to install into /opt or /usr/local [10 | 0 | Directory optional. Recommended is /opt/eucalyptus/ |
| has no "make install" [ +20 points] | 0 | Standard GNU commands work |
| doesn't work outside of the source directory [ +30 points] | 0 | Directory optional |
| **Code Oddities** |  |  |
| uses Windows line breaks [ +5 points] | 0 | Uses no MS source files |
| depends on specific compiler features [20 points] | 0 | Standard GNU compilation |
| depends on specific compiler bugs [20 | 0 | N/A |
| depends on Microsoft Visual ?? [ +100] | 0 | Standard Linux environment |
| **Communication** |  |  |
| does not announce releases on a mailing list [ +5 points] | 0 | Mail lists are well-used and active, including releases |
| does not have a mailing list [ +10 points | 0 | “ |
| does not have a bug tracker [ +20 ] | 0 | Bugs and wishes (feature requests ) are reported and tracked using the internal ticketing system (RT) |
| does not have a website [ +50 points] | 0 | http://open.eucalyptus.com/ |
| sourceforge vaporware [ +100 points] | 0 | “ |
| **Releases** |  |  |
| does not do sanely versioned releases (Major, Minor) [ +10 points] | 0 | Incremental releases every 7-10 months on average |
| does not do versioned releases [ +20 | 0 | N/A |
| does not do releases [ +50 points] | 0 | N/A |
| only does releases as attachments in web forum posts [ +100 points] | 0 | Easy to reach web repository |
| releases are only in .zip format [ +5 ] | 0 | Releases in .tar.gz format |
| releases only in OSX.zip format [ +10 ] | 0 | “ |
| releases are only in .rar format [ +20 ] | 0 | “ |
| releases are only in .arj format [ +50 ] | 0 | “ |
| releases in invented format [ +100 ] | 0 | “ |
| does not unpack into a versioned top-level directory (e.g. glibc-2.4.2/ ) [ +10 | 0 | Ex: export VERSION=2.0.3 the value of **$VERSION** must be set to the version of Eucalyptus you wish to install |
| does not unpack into a top-level directory (e.g. glibc/ ) [ +25] | 0 | Directory optional. Recommended is /opt/eucalyptus/ |
| unpacks into an absurd # of directories [ +50 points] | 0 | Main directory is only 2 levels deep |
|  |  |  |
|  |  |  |
| **History** |  |  |
| fork of another project [ +10] | 0 | started as a research project, developed as a dependency for a weather forecasting system, but was in and of itself its own project |
| primary developers were not involved with the parent project [ +50 points] | 0 | Rich Wolski and Graziano Obertelli with the open source side since the beginning |
| Until open sourcing, your code was proprietary for: |  |  |
| 1-2 years [ +10 points of FAIL ] | 0 | Was open-source before the commercial enterprise |
| 3-5 years [ +20 points of FAIL ] | 0 | “ |
| 6-10 years [ +30 points of FAIL ] | 0 | “ |
| 10+ years [ +50 points of FAIL ] | 0 | “ |
| **Licensing** |  |  |
| does not have per-file licensing [ +10] | 0 | Uses GNU General Public **License** |
| contains license incompatibilities [ +20] | 0 | “ |
| No notice of licensing intent [ +30] | 0 | “ |
| No copy of the license text [ +50] | 0 | “ |
| No license [ +100] | 0 | “ |
| **Documentation** |  |  |
| Code doesn't have a changelog [+10] | 0 | Changelogs for each version available on Eucalyptus wiki pages |
| “ doesn't have documentation [+10] | 0 | Administrator guide and user guide are in-depth and lengthy |
| website has no examples of use [ +20] | 0 | “Test Drive” walks you through installation and use |
| website has no documentation [ +30] | 0 | Supporting documentation is excellent on the site. Among them: tutorials on cloud computing, case study on setting up the community cloud, community wikis, road maps, and much more. |
|  |  |  |
| **FAIL METER TOTAL** | 30 | See below |

Although my rating technically puts the project into the “Babies cry when your code is downloaded” category, this is certainly a viable project. The fact that it is already a successful commercial enterprise makes this obvious. The tipping point is probably the size of the code, which is barley over the point criteria.

The areas where the project can use significant improvement are in the documentation. The existing documentation assumes a good deal of prior knowledge in Unix-based operating systems and version control systems (which is probably where we should focus our documentation efforts). This puts the software out of reach of the laymen user.

I’m sure this is why we were asked to help in the area of install documentation.