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<b>Title:</b>  Identification and Characterization of F/OSS Projects and their Developers  (Measurement Targets Selection)  A deliverable of Task 3.1		


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**Deliverable: D3.1**

**Title: Identification and Characterization of F/OSS Projects and their Developers**


**Executive Summary:**

This document describes the work done and results obtained in task 3.1 entitled “Measurements Targets Selection” for the QualOSS project.

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## CHANGE LOG

<i><b>Ver.</b></i>	<i><b>Date</b></i>	<i><b>Author</b></i>	<i><b>Description</b></i>
0.1	15/02/08	Daniel Izquierdo Cortazar	Initial proposal for structure
0.11	10/04/08	Daniel Izquierdo Cortazar	First Iteration data added
0.12	30/06/08	Kirsten Haaland	Review
0.12.1	30/06/08	Jean-Christophe Deprez	First thorough review
0.13	03/07/08	Daniel Izquierdo Cortazar	Review
0.14	20/08/08	Daniel Izquierdo Cortazar	First draft improvement
0.15	10/09/08	Daniel Izquierdo Cortazar	New projects added
0.16	20/09/08	Israel Herraiz	Data validation section added
0.17	26/09/08	Jean-Christophe Deprez	Perform my second review of this deliverable
0.18	29/09/08	Daniel Izquierdo Cortazar	Second review validation
0.19	30/09/08	Flora Kamseu	Second review of this deliverable
0.20	30/09/08	Daniel Izquierdo Cortazar	Review Validation
1.0	15/10/08	Jean-Christophe Deprez	Sanity Check (check info on title page)

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## 1. INTRODUCTION

Task 3.1. concerns Measurement Target Selection, and is the first part of work package 3 concerning Data Collection and Measurements. The idea of WP3.1 is to identify a list of suitable reference endeavors and validate the data. Further, this document also describes the methodology process to select FIOSS endeavors, and for FIOSS data validation.

In the following, A FIOSS endeavor is an abstract concept. It combines 4 sets: a set of work products, a set of community members, a set of software processes and a set of tools and dependencies. It may be view as the transposition of an enterprise applied in the free/open source world. When scoped, FIOSS endeavor can be defined at the level of a FIOSS project but also at other various level: a sub-project, a subset of components, a family of FIOSS projects, a subset of product versions, and others. Deliverable D4.1 defines thoroughly the concept of FIOSS endeavors and what scoping a FIOSS endeavor means. For the purpose of Work Package 3 most of the assessment will be performed on FIOSS endeavor scoped at the project level, meaning all the work product produced or related to a FIOSS project, all community members who have visibly contributed to a FIOSS project, all software processes followed by community members of the FIOSS project, and all tools and dependencies related to the FIOSS project.

### 1.1 MOTIVATION

The motivation for Task 3.1. is to identify FIOSS endeavors to later assess following the QualOSS methodology.

### 1.2 GOAL OF WORK PACKAGE 3


The goal of this Work Package is the identification of reference FIOSS projects that will be assessed following the QualOSS methodology described in deliverable D4.1. These FIOSS endeavors should be selected on the basis of specified set of criteria. Another goal is to validate the data of the reference FIOSS projects.

The main outcomes defined in the Description of Work document are the following:

- At least fifty FIOSS endeavor should be selected to be assessed following the QualOSS methodology
- Each selected FIOSS endeavor should have its own reference fact sheet. This sheet should have detailed information regarding the data sources which will be used in the retrieval process. Also, it should be added some other characteristics such as programming language, size of community, age, main parameters of evolution, main releases and others.
- For each selected FIOSS endeavor, a list of main developers should be obtained. These developers will be selected as target for an initial set of surveys.
- Finally, a set of heuristics should be used for filtering odd things from the obtained data. The heuristics used must be mention as part of the assessment results produced

### 1.3 STRATEGY FOR WORK PACKAGE 3

The strategy used in this Work Package is an iterative process. This Work Package builds on information from Work Package 1 (Tasks 1.1, 1.3, 1.4) and Work Package 4 (Task 4.1).

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Work Package 2 will provide the QualOSS tool which will analyse the set of FIOSS endeavors selected during Task 3.1. Moreover, Work Package 4 will provide some new requirements which will be taken into account. In order to avoid a refurbishment of this task, a first set of FIOSS endeavors is selected (around fifteen) and the following iteration will add new FIOSS endeavors .

## 1.4 APPROACH

So far at the initial stage, the selection of projects has been driven by the various partners interests. By now a methodology process is developed where the various requirements are retrieved. It is important to now implement this methodology process in order to select FIOSS endeavors fitting the general requirements .


## 1.5 STRUCTURE OF THE DELIVERABLE

This deliverable is structured as follows. The first section is an introduction to this document, where general considerations are taken into account, the goals and outcomes are outlined .

The second section, entitled “Selection of FIOSS endeavor ” contains the general criteria that will be implemented in order to obtain the total number of FIOSS endeavor . Also, it provides a brief methodological steps to select FIOSS endeavor . Finally, this section presents a list of selected projects using that methodology.

The third section concerns “Data Validation”.

**Keywords:** Free / Open Source Software (FIOSS), quality modelling, process assessment, project assessment, product assessment, evolvability, robustness, endeavor.

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## 2. SELECTION OF PROJECTS

Work Package 3 consists of several iterations where requirements from Work Package 1 and Work Package 4 are taking into account.

### 2.1 CRITERIA FOR SELECTING FLOSS ENDEAVORS

#### 2.1.1 Criterion 1

This criteria consists of covering all programming languages addressed by QualOSS: Ada, C, C++, Java and Python

Rationale: QualOSS targets the languages above. Although we have tested the code analysis tools selected, we want to test them even more thoroughly during WP1. This will highlight and provide feedback about which tools must be improved, to ensure that each language can be treated in a fairly equal manner.

#### 2.1.2 Criterion 2

One FIOSS endeavor should be implemented in several programming languages, for example, C++ and Java or C and Python.

Rationale: Usually code analysis tools handle a single programming language. In turn we want to consider an application implemented using multiple programming languages. This will help address the question: do we treat each languages separately or can we develop a unified model for several languages?

#### 2.1.3 Criterion 3

As a third criterion, one FIOSS endeavor should be implemented in several programming languages, one of which is unsupported by QualOSS (that is a language other than Ada, C/C++, Java and Python).

Rationale: Some FIOSS endeavors will be partly implemented in a language targeted by QualOSS and partly in a language that is not to included (yet) in QualOSS. It is therefore important to check the boundaries of the applicability of our assessment methodology.

#### 2.1.4 Criterion 4


One selected FIOSS endeavors should be fairly young while exhibiting a certain level of professionalism by tracking and recording data in various data sources such as version control, bug tracker, mailing list, website.

Rationale: Younger endeavors with potential may not have all the infrastructure that mature endeavors, who e.g. often are a part of large foundation . However, QualOSS' goal is clearly not limited to assessing already successful endeavors. In fact the added value of a method such as QualOSS lies in its ability to assess the potential of younger, smaller and less mature endeavors.

#### 2.1.5 Criterion 5

One selected FIOSS endeavor should be smaller than average in terms of e.g. small product, small community, not part of a large foundation.

Rationale: Although a single FIOSS endeavor may satisfy criterion 8 and 9, we keep these criteria separate since it could be possible for an old endeavor to have remained at a fairly small size (product and

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community). In turn, the two criteria 8 and 9 may also be satisfied by two distinct FIOSS endeavors. In fact, it would be interesting to test our assessment methodologies on a small endeavor with a proven track record.

### 2.1.6 Criterion 6

The set of selected endeavors should have utilized various issue tracking systems. It would in particular be interesting to have esoteric issue system not often encountered .

Rationale: Currently, QualOSS relies on other E.C. endeavors such as FLOSSMetrics to deal with a programmatic access to issue tracking systems of endeavors. However, FLOSSMetrics is likely to get a set of only a few F/OSS endeavors hence, during WP1, we wanted to assess how difficult it would be to extract issue tracking systems data manually for different systems encountered. This criterion does not make sense in WP3, where data need to be extracted. In order to deal with this problem, the QualOSS platform will retrieve the data used in FLOSSMetrics project (regarding this aspect).

### 2.1.7 Criterion 7

The majority of FIOSS endeavor must have enough data to compute most of the indicators proposed by the QualOSS methodology .

Rationale: A scientific methodology may only judge FIOSS endeavors based on the information that they provide. This becomes obvious when considering our mapping between metrics and characteristics. If all metrics related to a characteristic cannot be measured for a given endeavor, it will naturally be impossible to assess the characteristic in question.

Re-rationale: However, it must not be a problem to analyse that endeavor. Simply, it will not have information related to that missing source data.

### 2.1.8 Criterion 8

Take account of possible limits indicated by process validation in Task 4.4.


Rationale: Work Package 3 is based on an iterative process. Some new requirements may appear from Task4.4, and should be taken into account. For instance, new metrics could be obtained from that task and they would be included in a new iteration in Work Package 2 (where the tool is developed) and in Work Package 3 where the analysis of projects will include them.

### 2.1.9 Criterion 9

Limits given by partners :

- URJC - Selected endeavors must have been previously selected in FLOSSMetrics.
- Programming languages may be taken into account: Java, Python, Ada 95, C, C++. However some others may be selected.
- Select endeavor's dependencies for analyse. For instance, GNAT is really dependent of GCC, thus GCC must also be selected.
- CETIC: Some Python based endeavors should be added.
- MERIT: Asterisk should be analysed.



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- By definition, FIOSS endeavor are not limited to project, but can be scoped at the level of set of projects or even be based on a scope determined by a sub-component of a FIOSS project. At least eight FIOSS endeavors scope at other level than project should be assessed during WP3 .

## 2.2 METHODOLOGY

The methodology follows the aforementioned criteria in section 2.1 of this document. There is currently not a concrete methodology process in place to select FIOSS endeavors. Generally speaking, the commonly known endeavors in FIOSS software communities will fit with the selection criteria and can be included.

The QualOSS platform is currently being developed, thus some new requirements may be added in the future based on new insights and needs. Thus this is not an end-user manual. It is just a list of recommendations decided by the QualOSS consortium in order to test and validate the QualOSS methodology proposed in deliverable D4.1.

Finally, selected FIOSS endeavors should be "research friendly" . An FIOSS endeavor is "research friendly" if it has repositories of information which can be analysed by QualOSS platform tools and more importantly, if it has community members willing to participate to our data validation effort.

Repositories of information:

- Source Code Management(SCM): CVS (Concurrent Versions Systems) or SVN (Subversion).
- Mailing Lists: mbox format (typically, those endeavors which use mailman and their archives are public)..
- Bug Tracking System: No tool is provided in QualOSS platform to analyse these repositories. However, according to our experience, endeavors using Bugzilla are more research friendly than others.

Current state of the endeavor:

- Mature and immature endeavors: QualOSS platform is not only going to focus on mature endeavors. However those selected immature endeavors should be research friendly.

Programming language:


- The selected programming languages are Java, Python, C, C++ and Ada 95.

## 2.3 SELECTED FLOSS ENDEAVORS

### 2.3.1 Summary

This is a summary of the 17 first projects. Detailed description for the rest of them can be found in the subsection.

<b>Project</b>	<b>SCM Type</b>	<b>Mailing List mbox format</b>
Plone	SVN	HTML Format
GNAT Pro Compiler	No Data	No Data
Maemo HAF	SVN	mbox format
JavaCC	CVS	HTML format
Swallow	CVS	HTML format

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OpenOffice.org	CVS	HTML format
GCC	SVN	HTML format
Eclipse	CVS	HTML format
Mono	SVN	mbox format
Kernel FreeBSD	CVS	Libresoft repository / mbox format
GDB	CVS	HTML format
GNAT-GDB	CVS	None
ACE	CVS / SVN	mbox, subscription required
GNU Lisp	CVS	mbox format
XEmacs	CVS	mbox format
Asterisk	SVN	mbox format
vTiger	SVN	mbox format

### 2.3.2 Detailed description

List of projects selected in Task 1.4:

#### Plone

- SCM sites - SVN:
  - <https://svn.plone.org/svn/plone/>
- Mailing Lists - HTML format:
  - Setup: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.setup>
  - General users: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.user>
  - Announcements: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.announce>
  - Documentation: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.documentation>
  - Core developers: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.devel>
  - User interface and design: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.ui>
  - Plone web site: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.website>
  - Internationalization: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.internationalization>

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- General: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.archetypes.general>
- Add-on product developers: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.product-developers>
- NGOs: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.ngo>
- Educational list: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.eduplone.general>
- Sprints: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.sprints>
- Commits: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.cvs>
- Collective commits list: <http://news.gmane.org/thread.php?group=gmane.comp.web.zope.plone.collective.cvs>
- Forums and regional forums:
  - <http://www.nabble.com/Plone-f6741.html>
- BTS - Trac:
  - <http://dev.plone.org/plone>
- Releases:
  - <http://plone.org/products> -- <http://plone.org/products/by-category/plone-releases>
- Programming Language: Python

### GNAT Pro Compiler

- SCM sites
- Mailing lists
- Bug Tracking System
- Releases
- Programming Language: C

### Maemo HAF


- SCM site - SVN:
  - <https://stage.maemo.org/svn/maemo/projects/haf/>
  - <https://stage.maemo.org/svn/maemo/projects/haf/trunk/>

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- Mailing Lists - mboxes:
  - <http://maemo.org/community/maemo-lists.html>
  - Announcements: <http://lists.maemo.org/pipermail/maemo-announce/>
  - Users: <http://lists.maemo.org/pipermail/maemo-users/>
  - Developers: <http://lists.maemo.org/pipermail/maemo-developers/>
  - Commits: <http://lists.maemo.org/pipermail/maemo-commits/>
  - Automatic information from SVN system
- BTS - Bugzilla: <https://bugs.maemo.org/>
- Releases:
  - <http://maemo.org/development/sources/>
- Tools used:
  - CVSSanalyzer:
    - `svn co https://stage.maemo.org/svn/maemo/projects/haf/trunk/`
    - `cd trunk`
    - `cvsanaly --database QualOSS_cvsanaly_maemo > database_maemo.mysql`
    - `mysql -u root -p < database_maemo.mysql`
  - Mailing List Stats:
    - Created file with the four mailing lists found in maemo web site.
    - `cat mailinglists.txt | mlstats --user="root" --password="root" --no-report -`
    - Now I have a database named mlstats and the mboxes are located in `$HOME/.mlstats/`
- Programming Language: C

## JavaCC


- SCM site
  - Login is required.
  - `cvs -d :pserver:username@cvs.dev.java.net:/cvs login`
  - `cvs -d :pserver:username@cvs.dev.java.net:/cvs checkout javacc`
- Mailing Lists- HTML Format

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- <https://javacc.dev.java.net/servlets/ProjectMailingListList>
- Commits: <https://javacc.dev.java.net/servlets/SummarizeList?listName=cvs>
- Automatic information from CVS system
- Announcements: <https://javacc.dev.java.net/servlets/SummarizeList?listName=announce>
- Issues:
  - <https://javacc.dev.java.net/servlets/SummarizeList?listName=issues>
  - Automatic information from BTS system
  - Users: <https://javacc.dev.java.net/servlets/SummarizeList?listName=users>
- BTS - Issue Tracker :
  - <https://javacc.dev.java.net/servlets/ProjectIssues>
- Releases:
  - <https://javacc.dev.java.net/servlets/ProjectDocumentList>
- Programming Language: Java

### Swallow (DBE Servent)


- SCM Sites: CVS
  - `cvs -d:pserver:anonymous@swallow.cvs.sourceforge.net:/cvsroot/swallow login`
  - `cvs -z3 -d:pserver:anonymous@swallow.cvs.sourceforge.net:/cvsroot/swallow co -P modulename`
- Mailing Lists - HTML format (SourceForge? format):
  - Announcements: [http://sourceforge.net/mailarchive/forum.php?forum\\_name=swallow-announce](http://sourceforge.net/mailarchive/forum.php?forum_name=swallow-announce)
  - Discussion: [http://sourceforge.net/mailarchive/forum.php?forum\\_name=swallow-discussion](http://sourceforge.net/mailarchive/forum.php?forum_name=swallow-discussion)
- Forums - SourceForge format:
  - External contributions: [http://sourceforge.net/forum/forum.php?forum\\_id=479450](http://sourceforge.net/forum/forum.php?forum_id=479450)
  - Help: [http://sourceforge.net/forum/forum.php?forum\\_id=465763](http://sourceforge.net/forum/forum.php?forum_id=465763)
  - Discussion: [http://sourceforge.net/forum/forum.php?forum\\_id=465762](http://sourceforge.net/forum/forum.php?forum_id=465762)
- BTS - SourceForge:
  - [http://sourceforge.net/tracker/?group\\_id=138511](http://sourceforge.net/tracker/?group_id=138511)

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- Bugs: [http://sourceforge.net/tracker/?atid=740882&group\\_id=138511&func=browse](http://sourceforge.net/tracker/?atid=740882&group_id=138511&func=browse)
  - Feature request: [http://sourceforge.net/tracker/?atid=740885&group\\_id=138511&func=browse](http://sourceforge.net/tracker/?atid=740885&group_id=138511&func=browse)
  - Patches: [http://sourceforge.net/tracker/?atid=740884&group\\_id=138511&func=browse](http://sourceforge.net/tracker/?atid=740884&group_id=138511&func=browse)
  - Support requests: [http://sourceforge.net/tracker/?atid=740883&group\\_id=138511&func=browse](http://sourceforge.net/tracker/?atid=740883&group_id=138511&func=browse)
- Releases:
  - [http://sourceforge.net/project/showfiles.php?group\\_id=138511&package\\_id=151956](http://sourceforge.net/project/showfiles.php?group_id=138511&package_id=151956)
- Programming Language: Java

## Open Office


- Official URL: <http://www.openoffice.org>
- Description:
  - Open Office is a multi platform and multilingual office suite and an open-source project. Compatible with all other major office suites, the product is free to download, use, and distribute.
- Repository:
  - CVS repository: `cvs -d:pserver:anoncvs@anoncvs.services.openoffice.org:/cvs login`
  - `cvs -d:pserver:anoncvs@anoncvs.services.openoffice.org:/cvs / co -r OpenOffice?_2_0_0 OpenOffice?`
  - SVN repository: None
- Mail List:
  - [http://www.openoffice.org/mail\\_list.html](http://www.openoffice.org/mail_list.html)
  - There are mailing lists more specific, they can be found at <http://projects.openoffice.org/index.html>
  - Users: <http://www.openoffice.org/servlets/SummarizeList?listName=users>
  - Announce: <http://www.openoffice.org/servlets/SummarizeList?listName=announce>
  - Discussion: <http://www.openoffice.org/servlets/SummarizeList?listName=discuss>
  - Off-Topic: <http://www.openoffice.org/servlets/SummarizeList?listName=social>
  - Developers: <http://www.openoffice.org/servlets/SummarizeList?listName=dev>
  - All CVS Commits: <http://www.openoffice.org/servlets/SummarizeList?listName=allcvs>
  - All Bugs: <http://www.openoffice.org/servlets/SummarizeList?listName=allbugs>

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- Interface announce: <http://www.openoffice.org/servlets/SummarizeList?listName=interface-announce>
- Interface discussion: <http://www.openoffice.org/servlets/SummarizeList?listName=interface-discuss>
- Releases:
  - <http://www.openoffice.org/servlets/SummarizeList?listName=releases>
- Child Workspace Announcement:
  - <http://www.openoffice.org/servlets/SummarizeList?listName=cws-announce>
- Track Tool:
  - <http://tools.openoffice.org/servlets/ProjectIssues>
- Programming Language: Java

### GNU Compiler Collection

- Official URL: <http://gcc.gnu.org/>
- Description:
  - The GNU Compiler Collection includes front ends for C, C++, Objective-C, Fortran, Java, and Ada, as well as libraries for these languages (libstdc++, libgcj,...).
- Repository:
  - CVS repository: None
  - SVN repository: `svn -q co svn://gcc.gnu.org/svn/gcc/`
- Mail List:
  - <http://gcc.gnu.org/lists.html>
  - Gcc-help: <http://gcc.gnu.org/ml/gcc-help/>
  - Developers: <http://gcc.gnu.org/ml/gcc/>
  - Bugs: <http://gcc.gnu.org/ml/gcc-bugs/>
  - Patches: <http://gcc.gnu.org/ml/gcc-patches/>
  - Test Results: <http://gcc.gnu.org/ml/gcc-testresults/>
  - Library libstdc ++: <http://gcc.gnu.org/ml/libstdc++/>
  - Java front-end: <http://gcc.gnu.org/ml/java/>
  - Java patches: <http://gcc.gnu.org/ml/java-patches/>
  - Fortran: <http://gcc.gnu.org/ml/fortran/>

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- Read only lists:
  - Track problems: <http://gcc.gnu.org/ml/gcc-prs/>
  - Track checking SVN: <http://gcc.gnu.org/ml/gcc-cvs/>
  - Library libstdc ++ CVS: <http://gcc.gnu.org/ml/libstdc++-cvs/>
  - GCC webpages: <http://gcc.gnu.org/ml/gcc-cvs-wwwdocs/>
  - GCC regresion: <http://gcc.gnu.org/ml/gcc-regression/>
  - GCC admin: <http://gcc.gnu.org/ml/gccadmin/>
  - Java related problems: <http://gcc.gnu.org/ml/java-prs/>
- Track Tool:
  - <http://gcc.gnu.org/bugzilla/>
- Programming Language: C


## Eclipse

- Official URL: <http://www.eclipse.org/>
- Description:
  - Eclipse is an open source community whose projects are focused on building an open development platform comprised of extensible frameworks, tools and runtimes for building, deploying and managing software across the lifecycle.
- Repository:
  - CVS repository: `cvs -d pserver:anonymous@dev.eclipse.org:/cvsroot/eclipse co .`
  - SVN repository: None
- Mail List:
  - <http://www.eclipse.org/mail/> (more than 100 mailing lists...)
- Track Tool:
  - <https://bugs.eclipse.org/bugs/>
- Programming Language: Java

## Mono

- Official URL: [http://www.mono-project.com/Main\\_Page](http://www.mono-project.com/Main_Page)
- Description:



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- Mono provides the necessary software to develop and run .NET client and server applications on Linux, Solaris, Mac OS X, Windows, and Unix. Sponsored by Novell, the Mono open source project has an active and enthusiastic contributing community and is positioned to become the leading choice for development of Linux applications.
- Repository:
  - CVS repository: None
  - SVN repository:
    - svn co svn://anonsvn.mono-project.com/source/trunk/mono
    - svn co svn://anonsvn.mono-project.com/source/trunk/mcs
    - svn co svn://anonsvn.mono-project.com/source/trunk/libgdiplus
- Mail List:
  - [http://www.mono-project.com/Mailing\\_Lists](http://www.mono-project.com/Mailing_Lists)
- Track Tool:
  - <http://www.mono-project.com/Bugs>
- Programming Language: C

### Kernel FreeBSD

- Official URL: <http://freebsd.org>
- Description:
  - BSD based free operating system.
- Repository:
  - CVS repository: LibreSoft? mirror
  - SVN repository: None
- Mail List:
  - LibreSoft archive
- Track Tool: None
- Programming Language: C

### GDB

- Official URL: <http://www.gnu.org/software/gdb/>
- Description:

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- GDB, the GNU Project debugger, allows you to see what is going on 'inside' another program while it executes -- or what another program was doing at the moment it crashed.
- Repository:
  - CVS repository:
    - `cvs -d :pserver:anoncvs@sourceware.org:/cvs/src login {enter "anoncvs" as the password}`
    - `cvs -d :pserver:anoncvs@sourceware.org:/cvs/src co gdb`
  - SVN repository: None
- Mail List:
  - <http://sources.redhat.com/ml/gdb/>
- Track Tool: None
- Programming Language: C

## GNAT-GDB

- Official URL: <https://libre.adacore.com/GDB/main.html>
- Description:
  - GDB is a multi-language source-level debugger developed by the Free Software Foundation.
- Repository:
  - CVS repository:
    - `cvs -d :pserver:anoncvs@libre.adacore.com:/anoncvs login`
    - `cvs -d :pserver:anoncvs@libre.adacore.com:/anoncvs co gdb-6.4`
  - SVN repository: None
- Mail List: None
- Track Tool: None
- Programming Language:

## ACE

- Official URL: <http://www.cs.wustl.edu/~schmidt/ACE.html>
- Description:
  - An Object Oriented (OO) Network Programming Toolkit in C++

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- Repository:
  - CVS repository: [http://cvs.doc.wustl.edu/viewcvs.cgi/\\*checkout\\*/ace/](http://cvs.doc.wustl.edu/viewcvs.cgi/*checkout*/ace/)
  - SVN repository: <svn co svn://svn.dre.vanderbilt.edu/DOC/Middleware/sets-anon/ACE> .
- Mail List:
  - <http://www.cs.wustl.edu/~schmidt/ACE-mail.html>
- Track Tool: None
- Programming Language: C++

### GNU common Lisp

- Official URL: <http://savannah.gnu.org/projects/gcl>
- Description:
  - GCL is a Common Lisp currently compliant with the CLtL1 standard. Lisp compilation produces native code through the intermediary of the system's C compiler, from which GCL derives efficient performance and facile portability. Currently uses TCL/Tk as GUI.
- Repository:
  - CVS repository: `cvs -z3 -d:pserver:anonymous@cvs.savannah.gnu.org:/sources/gcl co <modulename>`
  - SVN repository: None
- Mail List:
  - <http://savannah.gnu.org/mail/?group=gcl>
- Track Tool:
  - <http://savannah.gnu.org/bugs/?group=gcl>
- Programming Language: C

### XEmacs


- Official URL: <http://xemacs.org/>
- Description:
  - XEmacs is a highly customizable open source text editor and application development system.
- Repository:
  - CVS repository:

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- `cvs -d :pserver:cvs@cvs.xemacs.org:/pack/xemacs cvs login (login cvs`
- `cvs -z3 -d :pserver:cvs@cvs.xemacs.org:/pack/xemacs cvs .`
- SVN repository: None
- Mail List:
  - <http://xemacs.org/Lists/index.html>
- Track Tool: None
- Programming Language: C, Lisp

## Asterisk


- Web page:
- <http://asterisk.org/>
- SCM sites - SVN:
- <http://asterisk.org/developers/get-source> - svn checkout <http://svn.digium.com/svn/asterisk/trunk>  
asterisk
- Mailing Lists - mbox format - <http://asterisk.org/support/mailling-lists>
  - aadk-commits - <http://lists.digium.com/pipermail/aadk-commits/>
  - asterisk-security - <http://lists.digium.com/pipermail/asterisk-security/>
  - asterisk-addons-commits - <http://lists.digium.com/pipermail/asterisk-addons-commits/>
  - asterisk-speech-rec - <http://lists.digium.com/pipermail/asterisk-speech-rec/>
  - asterisk-announce - <http://lists.digium.com/pipermail/asterisk-announce/>
  - asterisk-ss7 - <http://lists.digium.com/pipermail/asterisk-ss7/>
  - asterisk-biz - <http://lists.digium.com/pipermail/asterisk-biz/>
  - asterisk-users - <http://lists.digium.com/pipermail/asterisk-users/>
  - asterisk-BSD - <http://lists.digium.com/pipermail/asterisk-bsd/>
  - asterisk-video - <http://lists.digium.com/pipermail/asterisk-video/>
  - asterisk-bugs - <http://lists.digium.com/pipermail/asterisk-bugs/>
  - asterisknow - <http://lists.digium.com/pipermail/asterisknow/>
  - asterisk-commits - <http://lists.digium.com/pipermail/asterisk-commits/>
  - dundi - <http://lists.digium.com/pipermail/dundi/>

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- asterisk-dev - <http://lists.digium.com/pipermail/asterisk-dev/>
- libiax2-commits - <http://lists.digium.com/pipermail/libiax2-commits/>
- asterisk-doc - <http://lists.digium.com/pipermail/asterisk-doc/>
- libpri-commits - <http://lists.digium.com/pipermail/libpri-commits/>
- asterisk-embedded - <http://lists.digium.com/pipermail/asterisk-embedded/>
- libss7-commits - <http://lists.digium.com/pipermail/libss7-commits/>
- asterisk-gui - <http://lists.digium.com/pipermail/asterisk-gui/>
- svn-commits - <http://lists.digium.com/pipermail/svn-commits/>
- asterisk-gui-commits - <http://lists.digium.com/pipermail/asterisk-gui-commits/>
- zaptel-commits - <http://lists.digium.com/pipermail/zaptel-commits/>
- asterisk-i18n - <http://lists.digium.com/pipermail/asterisk-i18n/>
- Forums and regional forums:
  - <http://forums.digium.com/>, there are 15 forums.
- BTS - Digium Issue Tracker:
  - [http://bugs.digium.com/main\\_page.php](http://bugs.digium.com/main_page.php)
- Releases:
  - <http://downloads.digium.com/pub/asterisk/releases/>
- Programming Language: C

## vTiger

- Web Page: <http://www.vtiger.com/>
- SCM sites:
  - SVN - svn checkout <http://trac.vtiger.com/svn/vtiger/vtigercrm/trunk/>
- Mailing list:
  - <http://lists.vtigercrm.com/pipermail/vtigercrm-developers/>
- Forums:
  - <http://forums.vtiger.com/>
- BTS:
  - <http://trac.vtiger.com/cgi-bin/trac.cgi/report> (Trac format)

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- Programming Language: PHP


Projects from Apache Software Foundation

## Cherokee

- SCM sites: <http://svn.cherokee-project.com/>
- Mailing Lists: <http://lists.octality.com/pipermail/cherokee/>
- BTS: <http://code.google.com/p/cherokee/issues/list>
- Releases: <http://www.cherokee-project.com/download/>
- Programming Language: C

## HTTPD


- SCM sites:
  - Apache 1.3: svn checkout <http://svn.apache.org/repos/asf/httpd/httpd/branches/1.3.x> apache-1.3
  - Apache 2.0: svn checkout <http://svn.apache.org/repos/asf/httpd/httpd/branches/2.0.x> httpd-2.0
  - Apache 2.2: svn checkout <http://svn.apache.org/repos/asf/httpd/httpd/branches/2.2.x> httpd-2.2
  - Apache 2.3: svn checkout <http://svn.apache.org/repos/asf/httpd/httpd/trunk> httpd-trunk
  - Mailing Lists: <http://httpd.apache.org/lists.html>
  - Apache Server Announcements: <http://httpd.apache.org/mail/announce/>
  - Apache HTTP Server Development Main Discussion List: <http://httpd.apache.org/mail/dev/>
  - Apache HTTP Server Bug Reports List: <http://httpd.apache.org/mail/bugs/>
  - Source Change Reports: <http://httpd.apache.org/mail/cvs/>
  - Apache HTTP Server Documentation Project: <http://httpd.apache.org/mail/docs/>
  - Third-Party Module Authors' List: <http://httpd.apache.org/mail/modules-dev/>
  - HTTP Third-Party Module Directory: --
  - Packagers List: <http://httpd.apache.org/mail/packagers/>
  - Proxy Module Rework Discussion List: <http://www.apache.org/mail/modproxy-dev/>

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- BTS:
  - [https://issues.apache.org/bugzilla/buglist.cgi?query\\_format=advanced&short\\_desc\\_type=allwordssubstr&short\\_desc=&product=Apache+httpd-1.3&long\\_desc\\_type=substring&long\\_desc=&bug\\_file\\_loc\\_type=allwordssubstr&bug\\_file\\_loc=&keywords\\_type=allwords&keywords=&bug\\_status=UNCONFIRMED&bug\\_status=NEW&bug\\_status=ASSIGNED&bug\\_status=REOPENED&bug\\_status=NEEDINFO&bug\\_status=RESOLVED&bug\\_status=VERIFIED&bug\\_status=CLOSED&emailassigned\\_to1=1&emailtype1=substring&email1=&emailassigned\\_to2=1&emailreporter2=1&emailcc2=1&emailtype2=substring&email2=&bugidtype=include&bug\\_id=&votes=&chfieldfrom=&chfieldto=Now&chfieldvalue=&cmdtype=doit&order=Reuse+same+sort+as+last+time&field0-0-0=noop&type0-0-0=noop&value0-0-0=](https://issues.apache.org/bugzilla/buglist.cgi?query_format=advanced&short_desc_type=allwordssubstr&short_desc=&product=Apache+httpd-1.3&long_desc_type=substring&long_desc=&bug_file_loc_type=allwordssubstr&bug_file_loc=&keywords_type=allwords&keywords=&bug_status=UNCONFIRMED&bug_status=NEW&bug_status=ASSIGNED&bug_status=REOPENED&bug_status=NEEDINFO&bug_status=RESOLVED&bug_status=VERIFIED&bug_status=CLOSED&emailassigned_to1=1&emailtype1=substring&email1=&emailassigned_to2=1&emailreporter2=1&emailcc2=1&emailtype2=substring&email2=&bugidtype=include&bug_id=&votes=&chfieldfrom=&chfieldto=Now&chfieldvalue=&cmdtype=doit&order=Reuse+same+sort+as+last+time&field0-0-0=noop&type0-0-0=noop&value0-0-0=),  
[https://issues.apache.org/bugzilla/buglist.cgi?query\\_format=advanced&short\\_desc\\_type=allwordssubstr&short\\_desc=&product=Apache+httpd-2&long\\_desc\\_type=substring&long\\_desc=&bug\\_file\\_loc\\_type=allwordssubstr&bug\\_file\\_loc=&keywords\\_type=allwords&keywords=&bug\\_status=UNCONFIRMED&bug\\_status=NEW&bug\\_status=ASSIGNED&bug\\_status=REOPENED&bug\\_status=NEEDINFO&bug\\_status=RESOLVED&bug\\_status=VERIFIED&bug\\_status=CLOSED&emailassigned\\_to1=1&emailtype1=substring&email1=&emailassigned\\_to2=1&emailreporter2=1&emailcc2=1&emailtype2=substring&email2=&bugidtype=include&bug\\_id=&votes=&chfieldfrom=&chfieldto=Now&chfieldvalue=&cmdtype=doit&order=Reuse+same+sort+as+last+time&field0-0-0=noop&type0-0-0=noop&value0-0-0=](https://issues.apache.org/bugzilla/buglist.cgi?query_format=advanced&short_desc_type=allwordssubstr&short_desc=&product=Apache+httpd-2&long_desc_type=substring&long_desc=&bug_file_loc_type=allwordssubstr&bug_file_loc=&keywords_type=allwords&keywords=&bug_status=UNCONFIRMED&bug_status=NEW&bug_status=ASSIGNED&bug_status=REOPENED&bug_status=NEEDINFO&bug_status=RESOLVED&bug_status=VERIFIED&bug_status=CLOSED&emailassigned_to1=1&emailtype1=substring&email1=&emailassigned_to2=1&emailreporter2=1&emailcc2=1&emailtype2=substring&email2=&bugidtype=include&bug_id=&votes=&chfieldfrom=&chfieldto=Now&chfieldvalue=&cmdtype=doit&order=Reuse+same+sort+as+last+time&field0-0-0=noop&type0-0-0=noop&value0-0-0=)
- Releases:
  - <http://archive.apache.org/dist/httpd/>
- Programming Language: C/C++

## Ant (ASF)

- SCM sites:
  - <https://svn.apache.org/repos/asf/ant/core/>
- Mailing Lists:
  - [http://mail-archives.apache.org/mod\\_mbox/ant-dev](http://mail-archives.apache.org/mod_mbox/ant-dev)
  - [http://mail-archives.apache.org/mod\\_mbox/ant-ivy-user](http://mail-archives.apache.org/mod_mbox/ant-ivy-user)
  - [http://mail-archives.apache.org/mod\\_mbox/ant-notifications](http://mail-archives.apache.org/mod_mbox/ant-notifications)
  - [http://mail-archives.apache.org/mod\\_mbox/ant-user](http://mail-archives.apache.org/mod_mbox/ant-user)
- BTS:
  - <https://issues.apache.org/bugzilla/index.cgi>
- Releases:
  - <http://svn.apache.org/viewvc/ant/>
- Java

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## SpamAssassin

- SCM sites:
  - <https://svn.apache.org/repos/asf/spamassassin>
- Mailing Lists:
  - [http://mail-archives.apache.org/mod\\_mbox/spamassassin-announce](http://mail-archives.apache.org/mod_mbox/spamassassin-announce)
  - [http://mail-archives.apache.org/mod\\_mbox/spamassassin-blogspam](http://mail-archives.apache.org/mod_mbox/spamassassin-blogspam)
  - [http://mail-archives.apache.org/mod\\_mbox/spamassassin-commits](http://mail-archives.apache.org/mod_mbox/spamassassin-commits)
  - [http://mail-archives.apache.org/mod\\_mbox/spamassassin-dev](http://mail-archives.apache.org/mod_mbox/spamassassin-dev)
  - [http://mail-archives.apache.org/mod\\_mbox/spamassassin-dev-br](http://mail-archives.apache.org/mod_mbox/spamassassin-dev-br)
  - [http://mail-archives.apache.org/mod\\_mbox/spamassassin-dev-de](http://mail-archives.apache.org/mod_mbox/spamassassin-dev-de)
  - [http://mail-archives.apache.org/mod\\_mbox/spamassassin-users](http://mail-archives.apache.org/mod_mbox/spamassassin-users)
- BTS: <https://issues.apache.org/bugzilla>
- Releases:
  - <http://archive.apache.org/dist/spamassassin/>
- Programming Language: Perl

## Xerces

- SCM sites:
  - <https://svn.apache.org/repos/asf/xerces>
- Mailing Lists:
  - [http://mail-archives.apache.org/mod\\_mbox/xerces-c-dev](http://mail-archives.apache.org/mod_mbox/xerces-c-dev)
  - [http://mail-archives.apache.org/mod\\_mbox/xerces-c-users](http://mail-archives.apache.org/mod_mbox/xerces-c-users)
  - [http://mail-archives.apache.org/mod\\_mbox/xerces-commits](http://mail-archives.apache.org/mod_mbox/xerces-commits)
  - [http://mail-archives.apache.org/mod\\_mbox/xerces-general](http://mail-archives.apache.org/mod_mbox/xerces-general)
  - [http://mail-archives.apache.org/mod\\_mbox/xerces-j-dev](http://mail-archives.apache.org/mod_mbox/xerces-j-dev)
  - [http://mail-archives.apache.org/mod\\_mbox/xerces-j-users](http://mail-archives.apache.org/mod_mbox/xerces-j-users)



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- [http://mail-archives.apache.org/mod\\_mbox/xerces-p-dev](http://mail-archives.apache.org/mod_mbox/xerces-p-dev)
- BTS:
  - <http://issues.apache.org/jira/browse/XERCESSC>
- Releases:
  - <http://archive.apache.org/dist/xml/xerces-c/>
- Programming Language: C++

### Forrest (ASF)

- SCM sites:
  - <https://svn.apache.org/repos/asf/forrest>
- Mailing Lists:
  - [http://mail-archives.apache.org/mod\\_mbox/forrest-dev](http://mail-archives.apache.org/mod_mbox/forrest-dev)
  - [http://mail-archives.apache.org/mod\\_mbox/forrest-site-svn](http://mail-archives.apache.org/mod_mbox/forrest-site-svn)
  - [http://mail-archives.apache.org/mod\\_mbox/forrest-svn](http://mail-archives.apache.org/mod_mbox/forrest-svn)
  - [http://mail-archives.apache.org/mod\\_mbox/forrest-user](http://mail-archives.apache.org/mod_mbox/forrest-user)
- BTS:
  - <https://issues.apache.org/jira/browse/FOR>
- Releases:
  - <http://archive.apache.org/dist/forrest/>
- Programming Language: XSL Transformation

### Cocoon

- SCM sites:
  - <https://svn.apache.org/repos/asf/cocoon>
- Mailing Lists:
  - [http://mail-archives.apache.org/mod\\_mbox/cocoon-cvs](http://mail-archives.apache.org/mod_mbox/cocoon-cvs)
  - [http://mail-archives.apache.org/mod\\_mbox/cocoon-dev](http://mail-archives.apache.org/mod_mbox/cocoon-dev)

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- [http://mail-archives.apache.org/mod\\_mbox/cocoon-docs](http://mail-archives.apache.org/mod_mbox/cocoon-docs)
- [http://mail-archives.apache.org/mod\\_mbox/cocoon-users](http://mail-archives.apache.org/mod_mbox/cocoon-users)
- [http://mail-archives.apache.org/mod\\_mbox/cocoon-users-fr](http://mail-archives.apache.org/mod_mbox/cocoon-users-fr)
- BTS:
  - <https://issues.apache.org/jira/browse/COCOON>
- Releases:
  - <http://archive.apache.org/dist/cocoon/>
- Programming Language: Java

Set of projects by Functionality

Applications to burn CDs

### K3b

- SCM sites:
  - <svn://anonsvn.kde.org/home/kde/trunk/extragear/multimedia/k3b> multimedia/k3b
- Mailing Lists:
  - <http://lists.sourceforge.net/mailman/listinfo/k3b-announce>
  - <http://lists.sourceforge.net/mailman/listinfo/k3b-user>
- BTS:
  - [http://sourceforge.net/tracker/?atid=386330&group\\_id=26138&func=browse](http://sourceforge.net/tracker/?atid=386330&group_id=26138&func=browse)
  - [http://www.sourceforge.net/tracker/?group\\_id=26138&atid=386332](http://www.sourceforge.net/tracker/?group_id=26138&atid=386332)
  - [http://www.sourceforge.net/tracker/?group\\_id=26138&atid=386330](http://www.sourceforge.net/tracker/?group_id=26138&atid=386330)
  - [http://www.sourceforge.net/tracker/?group\\_id=26138&atid=386333](http://www.sourceforge.net/tracker/?group_id=26138&atid=386333)
  - [http://www.sourceforge.net/tracker/?group\\_id=26138&atid=386331](http://www.sourceforge.net/tracker/?group_id=26138&atid=386331)
- Releases:
  - <http://k3b.plainblack.com/download>
- C/C++

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## Brasero

- SCM sites:
  - <http://svn.gnome.org/svn/brasero/>
- Mailing Lists:
  - <http://mail.gnome.org/archives/brasero-list/>
- BTS:
  - <http://bugzilla.gnome.org/browse.cgi?product=brasero>
- Releases:
  - <http://ftp.gnome.org/pub/gnome/sources/brasero/>
- Programming Language: C


## Serpentine

- SCM sites:
  - <http://svn.berlios.de/svnroot/repos/serpentine/trunk> (Registration is required)
- Mailing Lists:
  - <https://lists.berlios.de/pipermail/serpentine-users/>
- BTS:
  - This project has turned off the bug tracker
- Releases:
  - [http://developer.berlios.de/project/showfiles.php?group\\_id=3081](http://developer.berlios.de/project/showfiles.php?group_id=3081)
- Programming Language: C

## Text Processors

### Kile

- SCM sites:
  - <svn://anonsvn.kde.org/home/kde/branches/extragear/kde3/office>

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- Mailing Lists:
  - <http://lists.sourceforge.net/mailman/listinfo/kile-announce>
  - <http://lists.sourceforge.net/mailman/listinfo/kile-devel>
- BTS:
  - <http://bugs.kde.org/>
- Releases:
  - <http://kile.sourceforge.net/download.php>
  - <http://websvn.kde.org/branches/kile/>
- Programming Language: C++

## Lyx

- SCM sites:
  - <svn://svn.lyx.org/lyx/lyx-devel>
- Mailing Lists:
  - <http://marc.info/?l=lyx-users>
  - <http://marc.info/?l=lyx-announce>
  - <http://marc.info/?l=lyx-devel>
  - <http://marc.info/?l=lyx-docs>
  - <http://marc.info/?l=lyx-fr>
- BTS:
  - <http://bugzilla.lyx.org/>
- Releases:
  - <ftp://ftp.lyx.org/pub/lyx/stable/>
- C/C++

## Abiword

- SCM sites:

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- <http://svn.abisource.com/abiword/>
- Mailing Lists:
  - <http://www.abisource.com/maillinglists/abiword-dev/>
  - <http://www.abisource.com/maillinglists/abiword-user/>
  - <http://www.abisource.com/maillinglists/abiword-qa/>
  - <http://www.abisource.com/maillinglists/abisource-announce/>
- BTS:
  - <http://bugzilla.abisource.com/>
- Releases:
  - <http://www.abisource.com/downloads/abiword/>
- Programming Language: ++

## Koffice

- SCM sites:
  - <http://websvn.kde.org/tags/koffice/>
- Mailing Lists:
  - <http://lists.kde.org/?l=koffice>
  - <http://lists.kde.org/?l=koffice-devel>
- BTS:
  - <https://bugs.kde.org/>
- Releases:
  - <ftp://ftp.kde.org/pub/kde/Attic/>
- Programming Language: C/C++

## Mail Transfer Agents


### Squirrelmail

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- SCM sites:
  - <http://squirrelmail.svn.sourceforge.net/viewvc/squirrelmail/>
- Mailing Lists:
  - <http://lists.sourceforge.net/mailman/listinfo/squirrelmail-announce>
  - <http://lists.sourceforge.net/mailman/listinfo/squirrelmail-cvs>
  - <http://lists.sourceforge.net/mailman/listinfo/squirrelmail-devel>
  - <http://lists.sourceforge.net/mailman/listinfo/squirrelmail-i18n>
  - <http://lists.sourceforge.net/mailman/listinfo/squirrelmail-lang-es>
  - <http://lists.sourceforge.net/mailman/listinfo/squirrelmail-plugins>
  - <http://lists.sourceforge.net/mailman/listinfo/squirrelmail-stable>
  - <http://lists.sourceforge.net/mailman/listinfo/squirrelmail-users>
- BTS:
  - [http://www.sourceforge.net/tracker/?group\\_id=311&atid=100311](http://www.sourceforge.net/tracker/?group_id=311&atid=100311)
  - [http://www.sourceforge.net/tracker/?group\\_id=311&atid=424118](http://www.sourceforge.net/tracker/?group_id=311&atid=424118)
  - [http://www.sourceforge.net/tracker/?group\\_id=311&atid=300311](http://www.sourceforge.net/tracker/?group_id=311&atid=300311)
  - [http://www.sourceforge.net/tracker/?group\\_id=311&atid=423691](http://www.sourceforge.net/tracker/?group_id=311&atid=423691)
  - [http://www.sourceforge.net/tracker/?group\\_id=311&atid=423680](http://www.sourceforge.net/tracker/?group_id=311&atid=423680)
  - [http://www.sourceforge.net/tracker/?group\\_id=311&atid=423692](http://www.sourceforge.net/tracker/?group_id=311&atid=423692)
  - [http://www.sourceforge.net/tracker/?group\\_id=311&atid=350311](http://www.sourceforge.net/tracker/?group_id=311&atid=350311)
  - [http://www.sourceforge.net/tracker/?group\\_id=311&atid=423679](http://www.sourceforge.net/tracker/?group_id=311&atid=423679)
- Releases:
  - [http://sourceforge.net/project/showfiles.php?group\\_id=311](http://sourceforge.net/project/showfiles.php?group_id=311)
- Programming Language: PHP

## Sendmail

- SCM sites:
- Mailing Lists:
- BTS:

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- Releases:
  - <ftp://ftp.sendmail.org/pub/sendmail/>
- Programming Language:


## Exim

- SCM sites:
- Mailing Lists:
  - <http://lists.exim.org/lurker/list/exim-announce.html>
  - <http://lists.exim.org/lurker/list/exim-dev.html>
  - <http://lists.exim.org/lurker/list/exim-users.html>
  - <http://lists.exim.org/lurker/list/exim-announce.en.html>
  - <http://lists.exim.org/lurker/list/exim-cvs.en.html>
  - <http://lists.exim.org/lurker/list/exim-dev.en.html>
  - <http://lists.exim.org/lurker/list/exim-future.en.html>
  - <http://lists.exim.org/lurker/list/exim-mirrors.en.html>
  - <http://lists.exim.org/lurker/list/exim-users.en.html>
  - <http://lists.exim.org/lurker/list/exim-users-de.en.html>
- BTS:
  - <http://bugs.exim.org/>
- Releases:
  - <http://exim.osi.trasys.be/ftp/>
- Programming Language: C/C++

## Email Clients

## Evolution

- SCM sites:

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- <http://svn.gnome.org/svn/evolution>
- Mailing Lists:
  - <http://mail.gnome.org/archives/evolution-list>
- BTS:
  - <http://bugzilla.gnome.org/browse.cgi?product=evolution>
- Releases:
  - <http://ftp.gnome.org/pub/gnome/sources/evolution/>
- Programming Language: C


## Balsa

- SCM sites:
  - <http://svn.gnome.org/viewvc/balsa/>
- Mailing Lists:
  - <http://mail.gnome.org/archives/balsa-list/>
- BTS:
  - <http://bugzilla.gnome.org/browse.cgi?product=balsa>
- Releases:
  - <http://svn.gnome.org/viewvc/balsa/branches/>
- Programming Language: C

## Sylpheed

- SCM sites:
  - <svn://sylpheed.sraoss.jp/sylpheed/trunk> sylpheed
- Mailing Lists:
  - <http://www.tmtm.org/cgi-bin/w3ml/index.cgi?ml=sylpheed>
- BTS:
- Releases:



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- <http://sylpheed.sraoss.jp/sylpheed/libsyph/>
- Programming Language: C

## Mutt


- SCM sites:
  - <http://dev.mutt.org/hg/mutt/>
- Mailing Lists:
  - <http://marc.info/?l=mutt-users>
  - <http://marc.theaimsgroup.com/?l=mutt-dev>
- BTS:
  - <http://dev.mutt.org/trac/report/3>
- Releases:
  - <ftp://ftp.mutt.org/mutt/>
- Programming Language: C

## KMail

- SCM sites:
- Mailing Lists:
- BTS:
- Releases:
- Programming Language: C++

## Sup

- SCM sites:
  - <http://git.gitorious.org/sup/mainline.git/>
- Mailing Lists:

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- <http://rubyforge.org/pipermail/sup-talk/>
- BTS:
  - <http://sup.rubyforge.org/ditz/>
- Releases:
  - [http://rubyforge.org/frs/?group\\_id=2603](http://rubyforge.org/frs/?group_id=2603)
- Programming Language: Ruby

PDF readers


#### **XPDF**

- SCM sites: Not found
- Mailing Lists: Not found
- BTS: Not found
- Releases: <http://www.foolabs.com/xpdf/download.html>
- Programming Language: C

#### **Evince**

- SCM sites:
  - <http://www.gnome.org/projects/evince/>
- Mailing Lists:
  - <http://mail.gnome.org/archives/evince-list>
- BTS:
  - <http://bugzilla.gnome.org/browse.cgi?product=evince>
- Releases:
  - <http://ftp.gnome.org/pub/gnome/sources/evince/>
- Programming Language: C

#### **Okular**

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- SCM sites:
  - svn co svn://anonsvn.kde.org/home/kde/trunk/KDE/kdegraphics -N
  - cd kdegraphics
  - svn up cmake
  - svn up libs
  - svn up okular
- Mailing Lists:
  - <http://mail.kde.org/pipermail/okular-devel/>
- BTS: KDE BTS
- Releases: SVN snapshots
- Programming Language: C++

Web browsers

## Firefox

- SCM sites:
- Mailing Lists:
  - <http://groups.google.com/group/mozilla.support.firefox/topics>
  - <https://lists.mozilla.org/listinfo/dev-apps-firefox>
  - <https://lists.mozilla.org/listinfo/feedback-firefox>
  - <https://lists.mozilla.org/listinfo/feedback-firefox-prerelease>
  - <https://lists.mozilla.org/listinfo/support-firefox>
- BTS:
  - <https://bugzilla.mozilla.org/request.cgi?action=queue&requester=&product=Firefox&type=all&requestee=&component=&group=type>
- Releases:

## Galeon

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- SCM sites:
  - <https://galeon.svn.sourceforge.net/svnroot/galeon>
- Mailing Lists:
  - <http://sourceforge.net/mailarchive/forum.php?forum=galeon-user>
  - <http://sourceforge.net/mailarchive/forum.php?forum=galeon-announce>
  - <http://sourceforge.net/mailarchive/forum.php?forum=galeon-devel>
- BTS:
- Releases:
  - [http://sourceforge.net/project/showfiles.php?group\\_id=6999](http://sourceforge.net/project/showfiles.php?group_id=6999)
- Programming Language: C/C++

### Konqueror

- SCM sites:
- Mailing Lists: <http://lists.kde.org/?l=kfm-devel&r=1&w=2>
- BTS: <https://bugs.kde.org/>
- Releases: <http://ftp.belnet.be/packages/kde/stable/>
- Programming Language: C/C++

### Lynx

- SCM sites:
- Mailing Lists:
  - <http://lists.gnu.org/archive/html/lynx-dev/>
- BTS:
- Releases:
  - <ftp://lynx.isc.org/>
- Programming Language: C

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## Databases

### SQLite


- SCM sites:
  - <http://www.sqlite.org/cvstrac/dir?d=sqlite>
- Mailing Lists: <http://marc.info/?l=sqlite-users&r=1&w=2>
- BTS: <http://www.sqlite.org/cvstrac/rptview?rn=5>
- Releases:
- Programming Language: C

### MySQL

- SCM sites:
- Mailing Lists:
- BTS:
  - <http://bugs.mysql.com/>
- Releases:
  - <http://dev.mysql.com/downloads/>
- Programming Language: C/C++

### PostgreSQL

- SCM sites:
  - <http://git.postgresql.org/?p=postgresql.git;a=summary>
- Mailing Lists:
  - <http://archives.postgresql.org/>
- BTS:
  - <http://archives.postgresql.org/pgsql-bugs/> (bug reports are sent to this mailing list)

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- Releases:
  - <http://www.postgresql.org/download/>
- Programming Language: C

## Others FIOSS Endeavors

### GTK +


- SCM sites:
  - svn checkout <http://svn.gnome.org/svn/gtk+/trunk> gtk
- Mailing Lists:
  - GTK list: <http://mail.gnome.org/archives/gtk-list/>
  - GTK Applications development: <http://mail.gnome.org/archives/gtk-app-devel-list/>
  - GTK developers: <http://mail.gnome.org/archives/gtk-devel-list/>
  - GTK documentation: <http://mail.gnome.org/archives/gtk-doc-list/>
  - GTK internationalization: <http://mail.gnome.org/archives/gtk-i18n-list/>
  - GTK Perl: <http://mail.gnome.org/archives/gtk-perl-list/>
  - GKT Languages bindings: <http://mail.gnome.org/archives/language-bindings/>
- BTS:
  - <http://bugzilla.gnome.org/>
- Releases:
  - <http://www.gtk.org/download-linux.html>
- Programming Language: C

### GLib (library of GTK+)

- This is part of GTK+. All information can be found at GTK+.

### LibC

- SCM site:
  - `cvs -z 9 -d :pserver:anoncvs@sources.redhat.com:/cvs/glibc co libc`

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- Git version: `git clone git://sources.redhat.com/git/glibc.git`
- Mailing lists:
  - Announcement: <http://sources.redhat.com/ml/libc-announce/>
  - General discussion: <http://sources.redhat.com/ml/libc-alpha/>
  - Questions: <http://sources.redhat.com/ml/libc-help/>
  - Developers: <http://sources.redhat.com/ml/libc-hacker/>
  - Ports: <http://sourceware.org/ml/libc-ports/>
  - CVS Commits: <http://sources.redhat.com/ml/glibc-cvs/>
  - Bugs updates: <http://sources.redhat.com/ml/glibc-bugs/>
- BTS:
  - <http://sources.redhat.com/bugzilla/>
  - <http://sources.redhat.com/ml/glibc-bugs/>
- Releases: <http://ftp.gnu.org/gnu/glibc/>
- Programming Language: C

## OpenGL


- Repositories not found

## Korganizer

- It is based on several projects.


## Qt

- Description:
  - Graphic libraries used in projects like KDE. For instance, skype is based on this graphic libraries.
- SCM sites:
  - Not found
- Mailing Lists:
  - Not found
- Forums:

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- <http://trolltech.com/developer/community>
- BTS:
  - <http://trolltech.com/developer/task-tracker>
- Releases:
  - <http://ftp.silug.org/mirrors/ftp.trolltech.com/qt/source/>
- Programming Language: C++



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### 3. FLOSS DATA VALIDATION STRATEGY

Data validation deals with the validation of actual data and measurements on this data. The validation is an iterative process, consisting of four stages. The first two rounds deals with *input to a QualOSS assessment* and the available data sources, the third stage with validating the *selected input* to an QualOSS assessment, and the fourth round with the *output* (or results) of a QualOSS assessment.

The target group that is to be interacted with for all the four stages are active actors from the open source communities around the relevant FIOSS endeavor being assessed. Potential FIOSS community members to contact for performing the validation are identified and listed in D3.1.

Each round is described in detail below, indicating the reason why the task is necessary, and what input is required for this task to be executed.

#### 3.1.1 First round: Data sources – documentation and availability

First of all, the data needs to be available and its location must be known and recorded. For each FIOSS endeavor under assessment, it is necessary and paramount to properly record where the data comes from, and for each artifacts to indicate its exact source(s). Furthermore, it is of uttermost importance to annotate artifacts with additional information so analysis can be replicated, or so results of the same analysis at different points in time can be compared. In consequence, for each artifact, one must be able to recover the version to which it belongs, the date when it was created, when its was measured, the exact source from which it comes, and the share of the project actually measured (e.g. the tool may be able to deal with only a limited number of file types or programming languages, so for example only part of the code could be analyzed due to these limitations.)

In other words, the first round checks that FIOSS data is available, to what extent it is available, and more importantly, that its source was properly recorded as well as other important attribute of the data. This stage does not require interaction with FIOSS communities, but is an important step merely to validate proper documentation of what data is used, its coverage, and where and when it is obtained.

#### 3.1.2 Second round: Data sources – reliability and representativeness


The second stage validates the extent to which the available data is reliable and/or complete for the FIOSS endeavor in question.

Depending on the source of the data, it is necessary to inquire whether the source is reliable and/or complete, for instance: Is the CVS tree used for a QualOSS assessment actually representative of the whole project? It is necessary to check every data source, and a validation strategy must be further elaborated for the various data sources and types of artifacts.

This stage in the iterative process will also allow for feedback concerning missing data. If available the missing data will be added to be considered by the QualOSS assessment. Otherwise the results of the QualOSS assessment will be annotated with the fact that they were obtained on incomplete datasets, giving an indication of the extent of coverage and completeness.

#### 3.1.3 Third round: Selected sources - actual metrics

The third round deals with the selected inputs and the measures obtained from these inputs. The purpose of this third stage is to ask FIOSS community members if the actual measures seem to reflect reality as perceived by the FIOSS community members. There are at least two reasons for a measure to seem unrealistic. First, the data source is incomplete but the community member did not notice it in the previous round. It may be very overwhelming to validate large amount of data. On the other hand, it becomes easier

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to validate the completeness and accuracy of a dataset from measures obtained on it. A second reason for unrealistic measure is a flaw in the implementation of the measurement or analysis tool. It is important to have this continuous feedback in order to improve how the QualOSS methodology is applied.

### 3.1.4 Fourth round: Indicators and output

The fourth and final round is about validating the interpretations and conclusions obtained from aggregating measures, in particular, by checking the values of indicators and how the QualOSS assessment propose to interpret them. A similar validation is also perform in WP4 task 4.4. The difference being that in WP3, we check with FIOSS community members while Task 4.4 performs other kind of validations such as expert review or empirical.

The main purpose of this fourth round is to stimulate a dialog between FIOSS communities, FIOSS users and FIOSS researchers.

As mentioned above, this round requires interacting with FIOSS community members. We already observe that the opinion of FIOSS community members may be quite subjective. In turn, we view this round as a right granted to FIOSS community members to comment on the results of an assessment rather than a true validation. However, we do not neglect the case of a flawed indicator, and in such cases, the comment by FIOSS community members should easily explain why the indicator value should be discounted in their cases. Obviously the purpose and goals of the actor willing to perform the assessment of a FIOSS endeavor may be different than for someone active in the community. This should be kept in mind, at the same time as checking to what extent something “makes sense”, and providing feedback to the community, and giving them the opportunity to participate in the process.


One of the approaches is to directly select member of each community ordered by their contributions to the project. Next there are some examples for two different communities.


#### Eclipse

<i><b>Committer</b></i>	<i><b>Commits</b></i>	<i><b>Committer</b></i>	<i><b>Commits</b></i>
mvalenta	28961	dmegert	28483
dbaeumer	28162	darin	27204
pmulet	27092	darins	21716
prapicau	20698	tod	19459
maeschli	19144	wmelhem	18592

#### GCC

<i><b>Committer</b></i>	<i><b>Commits</b></i>	<i><b>Committer</b></i>	<i><b>Commits</b></i>
tromey	31462	law	28728
bkoz	20063	mmitchel	16470
rth	15870	charlet	15223
kenner	11002	kazu	10994
kcook	10419	ghazi	9696

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## 4. CONCLUSIONS

Fifty FIOSS endeavor have been selected. However, some may still be added and others removed. The deliverable 3.1 has been developed in two phases . The first step consisted of analysing in a manual way around twenty projects (in the end seventeen) where defects were debugged in order to improve the selection methodology.

During the second iteration of this deliverable, another thirty three projects have been selected to form the QualOSS test bed. Most of them presents all the repositories needed to perform assessment following the QualOSS methodology, however some have a lack of repositories or not analysable repositories. This would present a challenge for the QualOSS methodology and it will provide and assure an analysis without this kind of data.

As it is known, QualOSS is working together with FIOSSMetrics in order to achieve some common goals. In this way, a new tool is being developed (named as Bicho) which retrieves information from Bug Tracking Systems. This tool will be integrated in the QualOSS platform and will provide new information from Bug Tracking Systems based on SourceForge. Thus, this will allow to have a more complete data.