

Evaluating the Quality of Open Source Software

Diomidis Spinellis

(and a cast of many others)

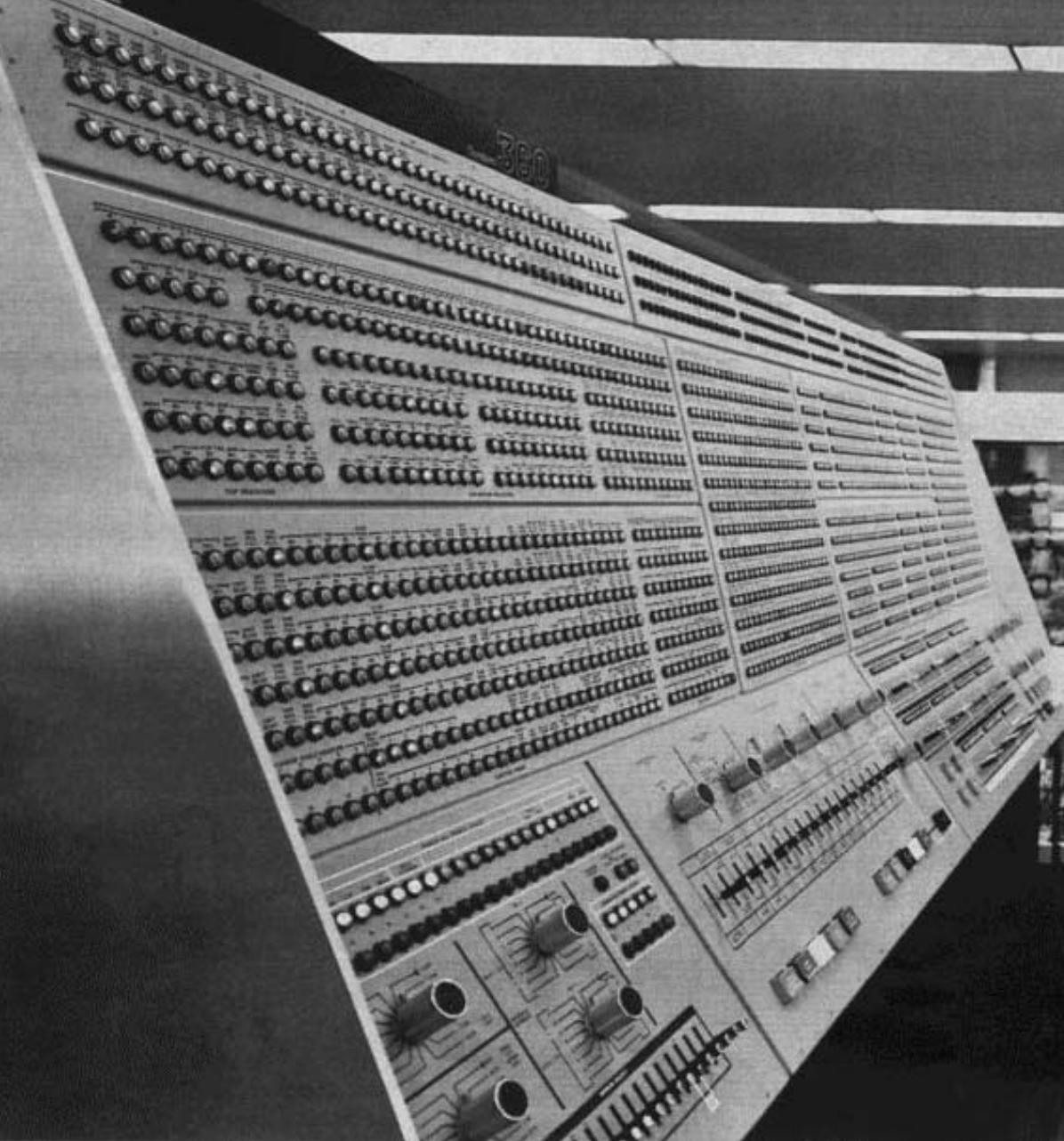
Dept of Management Science and Technology

Athens University of Economics and Business

<http://www.dmst.aueb.gr/dds>



BM



MOTOR WRAPS

R, REGENT ST., W.



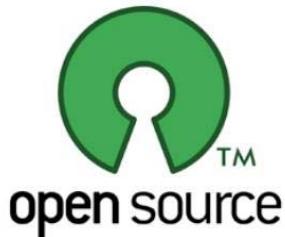
"PANHARD," Tweed or Frieze Motor Coat with
detachable Leather Linning in a large variety of
colourings, **7½ guineas.**



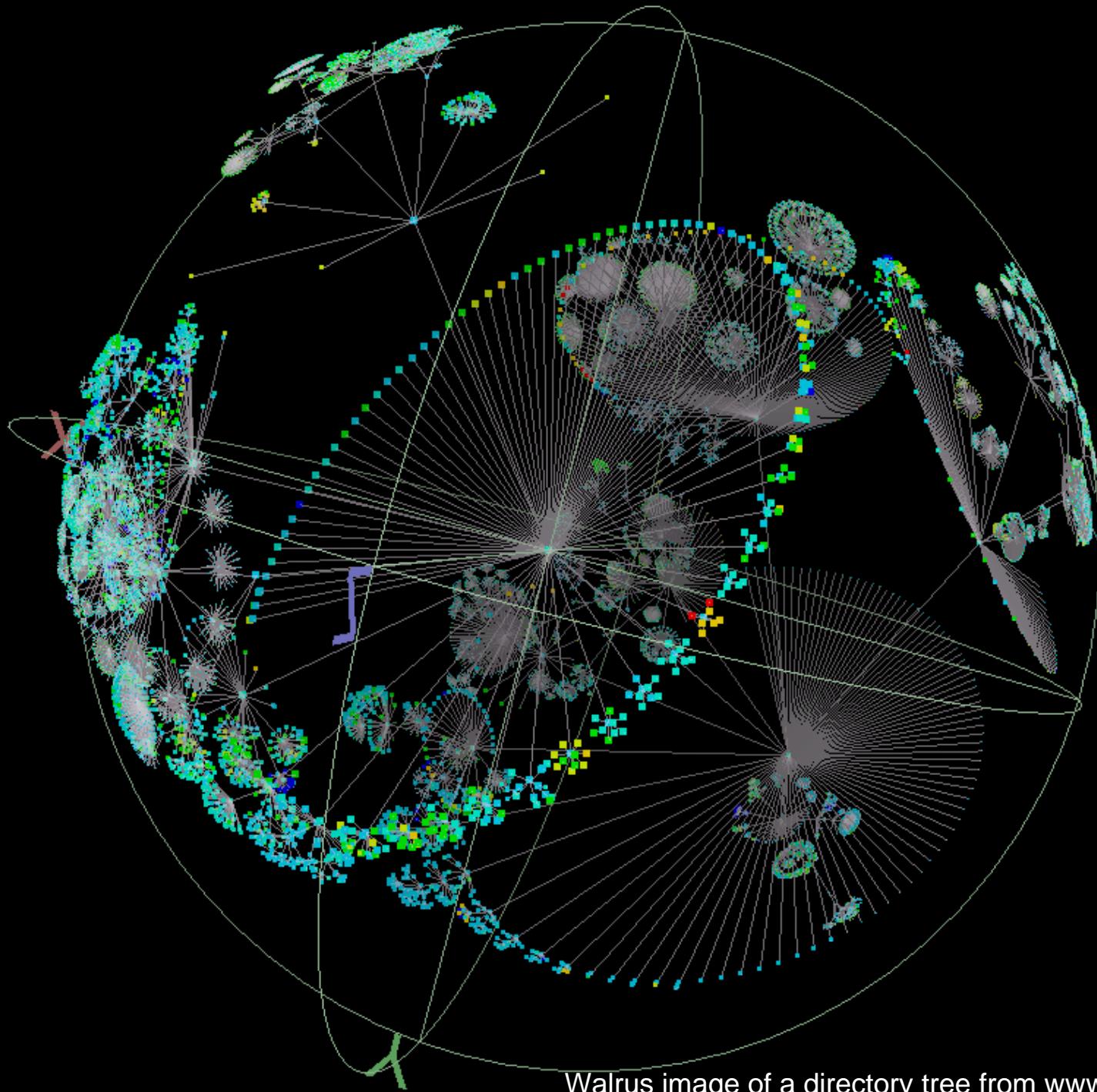


open source

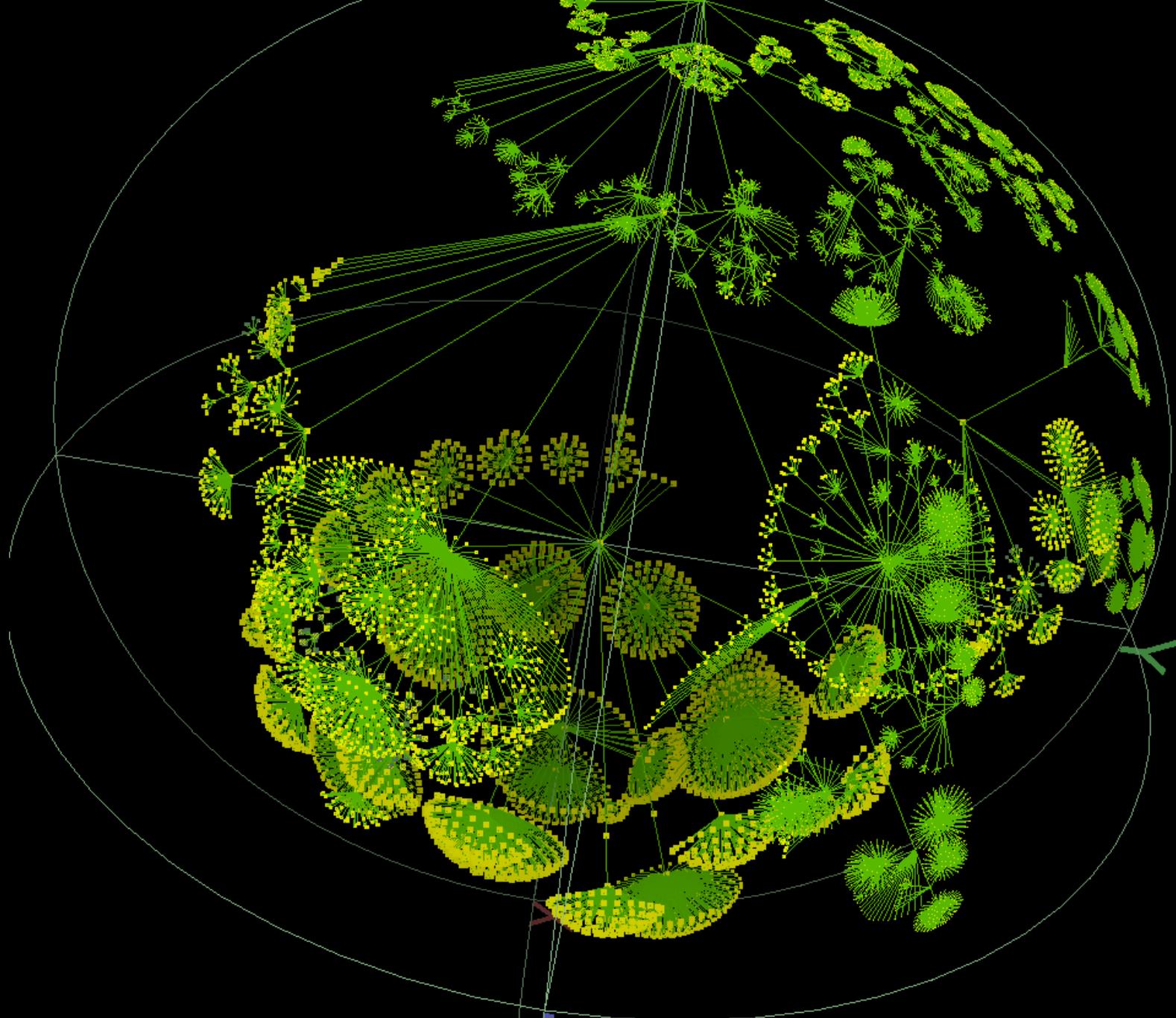
changed







Walrus image of a directory tree from www.caida.org



Walrus image of CVS repository from www.caida.org

Bugzilla@Mozilla – Most Frequently Reported Bugs

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[What is this data?](#)[Change parameters](#)

Bug #	Dupe Count	Change in last 30 day(s)	Component	Severity	Op Sys	Target Milestone	Summary
415252	14	10	English US	normal	All	---	gmail (new version) doesn't show names in contacts list
215055	26	10	Layout: View Rendering	critical	All	---	incorrect rendering of a tall element with overflow: scroll or overflow:auto (16-bit widget coordinates)
411831	11	9	GFX: Thebes	major	Linux	---	Scaled images rendered incorrectly; some images not shown at all (apparently Linux- & Nvidia-related)
419127	7	7	English US	critical	Windows XP	---	Crash with Yahoo State Plugin (from Yahoo Messenger) - using some allocator that isn't NPN_MemAlloc
416396	9	7	Plugins	major	All	---	Firefox doesn't install Flash plugin when it is needed and absent
400318	17	6	Internal Components	normal	All	0.8	Time incorrectly recalculated when Lightning/Sunbird timezone does not match system timezone (datepicker)
425739	5	5	Keyboard Navigation	normal	All	---	Space bar action is reversed (scrolls up page)
387416	5	5	General	normal	All	---	Implement a dynamic UA spoofing mechanism
354527	22	5	Extension/Theme Manager	normal	All	---	Incompatible add-ons list during install : scroll bar for list is not working properly
319196	139	5	Startup and Profile System	critical	Windows XP	Firefox 3 beta3	customized toolbar always reset to default on restart, bookmarks and search engines lost, unable to add search engines (localstore.rdf corruption on upgrade or crash). SEE URL FIELD FOR SUPPORT LINK
359219	10	4	General	major	Mac OS X	0.1	Placeholder: Eudora importers (Mac) to import Mail Store, settings and Address Books
354624	16	4	XPConnect	critical	Windows XP	---	right click on any page will crash firefox with free download manager extension

March 2008 Archives by thread

- **Messages sorted by:** [\[subject \]](#) [\[author \]](#) [\[date \]](#)
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Starting: Fri Feb 29 16:37:00 PDT 2008

Ending: Mon Mar 31 02:04:05 PDT 2008

Messages: 623

- [\[head tinderbox\] failure on i386/pc98](#) FreeBSD Tinderbox
- [\[head tinderbox\] failure on ia64/ia64](#) FreeBSD Tinderbox
- [why vimage?](#) Julian Elischer
 - [why vimage?](#) Outback Dingo
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MediaWiki - MediaWiki - SeaMonkey

page discussion view source history Log in / create account

Welcome to MediaWiki.org

MediaWiki is a free software wiki package originally written for Wikipedia. It is now used by several other projects of the non-profit Wikimedia Foundation and by many other wikis, including this website, the home of MediaWiki.

Use the links below to explore the basic site contents. You'll find some content translated into other languages, but the primary reference language for the whole site is English.

For general questions dealing with the software see the recommended possibilities of communication and maybe our support desk. If you have a suggestion dealing with this wiki, please visit the Forum.

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site <ul style="list-style-type: none">■ Main page■ Browse categories■ Community portal■ Recent changes	download <ul style="list-style-type: none">■ MediaWiki■ Extensions	support <ul style="list-style-type: none">■ User help■ Technical manual■ FAQ■ Support desk
development <ul style="list-style-type: none">■ Bug tracker■ Browse SVN ↗■ Download from SVN■ Code docs ↗	communication <ul style="list-style-type: none">■ IRC (#mediawiki)■ Mailing lists	search <input type="text"/> Go Search
toolbox <ul style="list-style-type: none">■ What links here■ Related changes■ Upload file■ Special pages■ Printable version■ Permanent link		

Users  <ul style="list-style-type: none">■ What is a wiki?■ Navigation■ How to edit a page■ More	System Administrators  <ul style="list-style-type: none">■ Installing/Upgrading■ Configuring■ Third-party Extensions■ More	Developers  <ul style="list-style-type: none">■ Submitting a patch■ SVN commit access■ Reference Manual■ More
--	--	---

News

- 2008-03-20: 1.12.0 quarterly release
✓ [MediaWiki 1.12.0 final release ↗ available](#), see [Manual:Upgrading](#).
- 2008-03-11: 1.12.0rc1 release candidate
✓ [MediaWiki 1.12.0rc1 release candidate ↗ available](#).
- 2008-03-02: 1.11.2 security update, 1.10.4, 1.9.6 bugfix updates
! [Security updates ↗ available](#).
💡 [Bug fixes ↗ for regressions in previous security fix](#)
- 2008-01-23: 1.11.1, 1.10.3, 1.9.5 security updates
! [Security updates ↗ available](#).
- 2007-09-10: 1.11.0 new stable branch
✓ [Quarterly branch ↗ available](#), see [Manual:Upgrading to 1.11](#).
- 2007-09-10: 1.10.2, 1.9.4, 1.8.5 security updates

Current Versions

1.12.0 · 2008-03-20
1.11.2 · 2008-03-02
1.6.10 · 2007-02-20

[Download](#)

Done





important

super-linear

SourceForge.net: Welcome to SourceForge.net - SeaMonkey

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Home **Browse Software** **Marketplace** **Community**

Software  

WHAT'S THE FREQUENCY (Kenneth)?
Optimize your Wi-Fi wth the Wi-Spy Sp
Think Geek

SourceForge.net is the world's largest Open Source software development web site. SourceForge.net provides free hosting to Open Source software development projects with a centralized resource for managing projects, issues, communications, and code.

Registered Projects: **173,347**
Registered Users: **1,820,658**

Project News


FREE
Microsoft® Expression® Web Software & Training


<http://ad.doubleclick.net/click;h=v8/3694/0/...//www.thinkgeek.com/gadgets/electronic/80ce/>

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Technology for better business outcomes



SF.net » Search

Searching projects gives
20279 results

SourceForge.net Results

Projects Projects with Services Service Providers

Options: Filter Details Images Help

latest_file_date:[20070331 TO 20080331] Search Advanced Search Sy

Page: 1 2 3 ... 2028 Next » 1 - 10 of 20279 Results -

Rank	Name	Relevance	Activity	Latest File	Registered
1	Openbravo ERP	100.00%	—	2006-03-09	2008-03-25

Web based ERP for SMEs, built on proven MVC & MDD framework that facilitate customization & maintenance of code. Already in production, it encompasses a broad range of functionalities such as finance, supply chain, project mgmt, manufacturing & much more



Services (3) Members (74)

Topics: Code Generation, Project Management, Point Of Sale, Accounting, ERP, CRM

WHAT'S THE FREQUENCY (Kenneth)?

Optimize your

Done

Welcome! - The Apache Software Foundation - SeaMonkey



The Apache Software Foundation

<http://www.apache.org/>



7-11 April • Amsterdam

Apache Projects

- [HTTP Server](#)
- [ActiveMQ](#)
- [Ant](#)
- [APR](#)
- [Beehive](#)
- [Cayenne](#)
- [Cocoon](#)
- [Commons](#)
- [Continuum](#)
- [DB](#)
- [Directory](#)
- [Excalibur](#)
- [Felix](#)
- [Forrest](#)
- [Geronimo](#)
- [Gump](#)
- [Hadoop](#)
- [Harmony](#)
- [HiveMind](#)
- [HttpComponents](#)
- [iBATIS](#)
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- [Jackrabbit](#)
- [Jakarta](#)
- [James](#)
- [Labs](#)
- [Lenya](#)
- [Logging](#)
- [Lucene](#)
- [Maven](#)
- [Mina](#)
- [MyFaces](#)
- [ODE](#)
- [OFBiz](#)

► Welcome!

The Apache Software Foundation provides support for the Apache community of open-source software projects. The [Apache projects](#) are characterized by a collaborative, consensus based development process, an open and pragmatic software license, and a desire to create high quality software that leads the way in its field. We consider ourselves not simply a group of projects sharing a server, but rather a community of developers and users.

► Support the Apache Software Foundation

You are invited to participate in The Apache Software Foundation. Our [membership](#) consists of those individuals who have demonstrated a commitment to collaborative open-source software development through sustained participation and contributions within the Foundation's projects. Of course, you can contribute to the foundation in many ways:

[Contributing to Apache](#)

[Sponsoring Apache](#)

[Donating to Apache](#)

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► Latest News

If you would like to keep up with news and announcements from the foundation and all its projects, you can subscribe to the [Apache Announcements List](#).

ApacheCon Europe 2008 in Amsterdam - Registration is Open!

ApacheCon Europe 2008,
the official user



Foundation

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- [Mailing Lists](#)
- [Version Control](#)
- [Developer Info](#)

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Done

K Desktop Environment - Be free - SeaMonkey

K Desktop Environment

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Community

- People
- Mailing Lists
- Forum

Develop

- Getting Involved

Be free

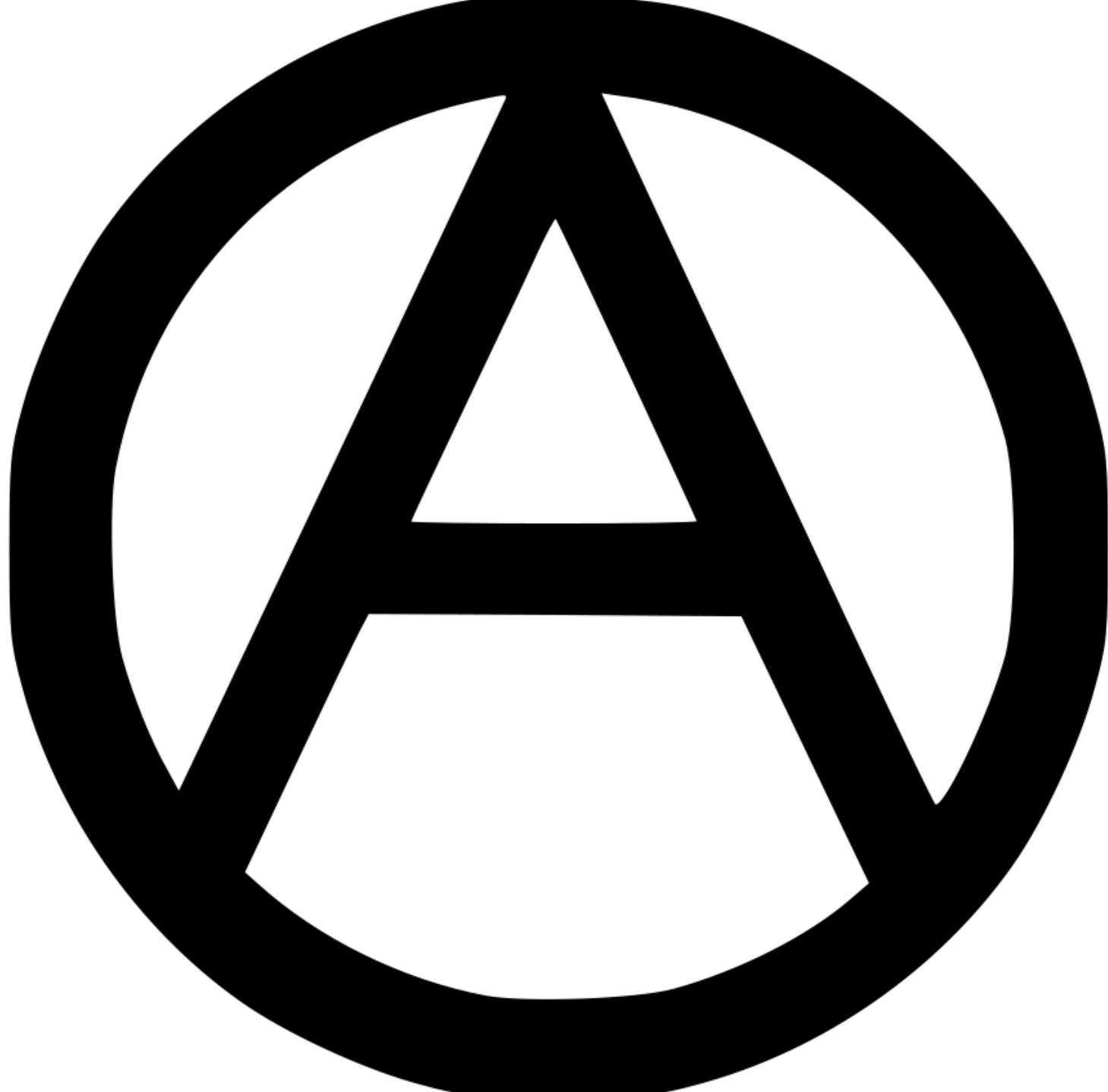
KDE is an international technology team that creates **Free Software** for desktop and portable computing. Among KDE's products are a modern desktop system for Linux and UNIX platforms, comprehensive office productivity and groupware suites and hundreds of software titles in many categories including Internet and web applications, multimedia, entertainment, educational, graphics and software development. KDE software is translated into more than 60 languages and is built with ease of use and modern accessibility principles in mind. KDE4's full-featured applications run natively on Linux, BSD, Solaris, Windows and Mac OS X. [More...](#)

Latest Announcements

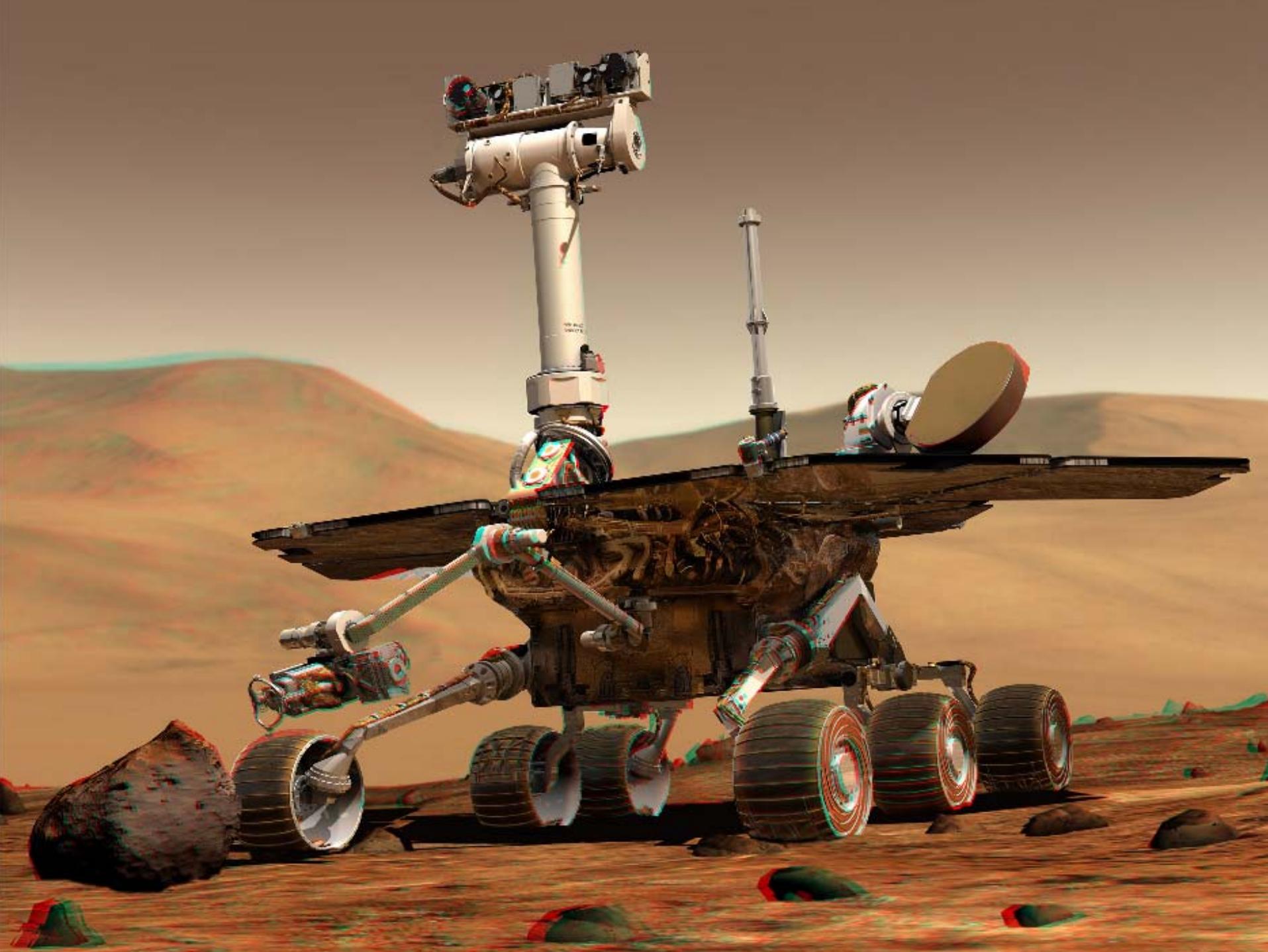
KDE 4.0.2 available.
On 5th March 2008, the KDE Community released the second update to the fourth major version of

Discover

Done







quality

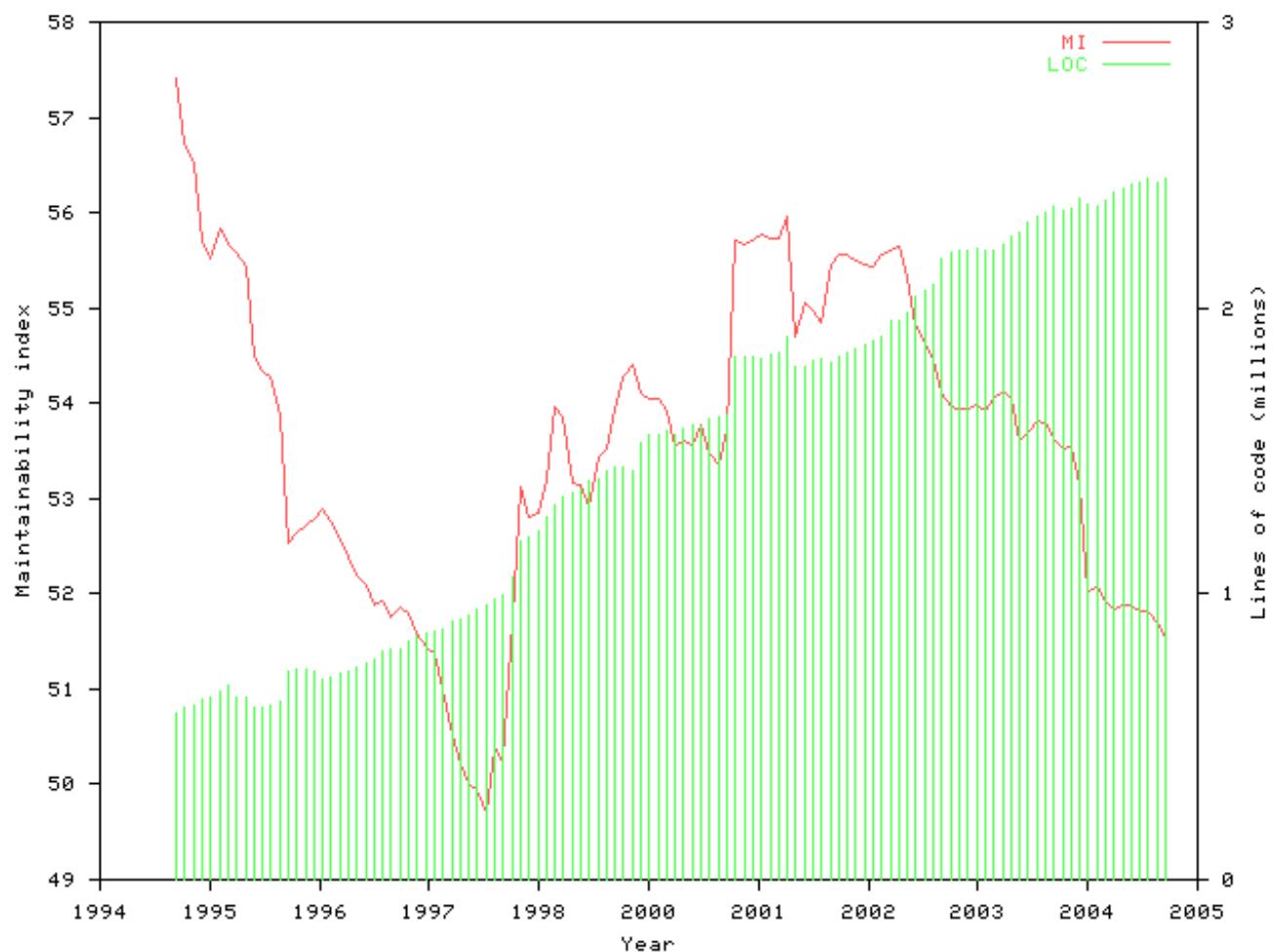
adoption

3

[1] SQO-OSS

[2] structure and operation

[3] research



[1]

SQOÂOSS



8310. P. Z. - KÖNIGSBERG. UNIVERSITÄT & KÖNIGSGARTEN.





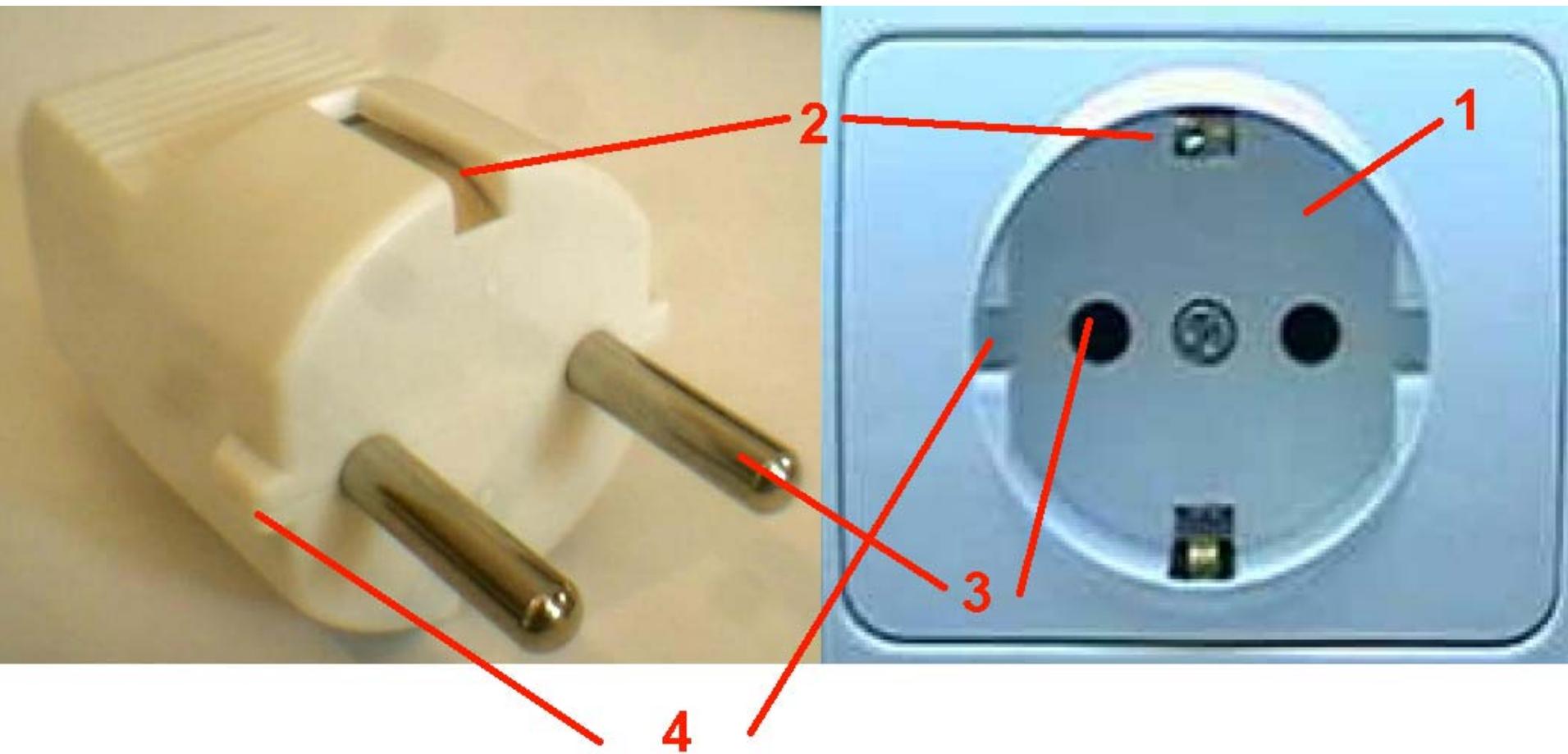


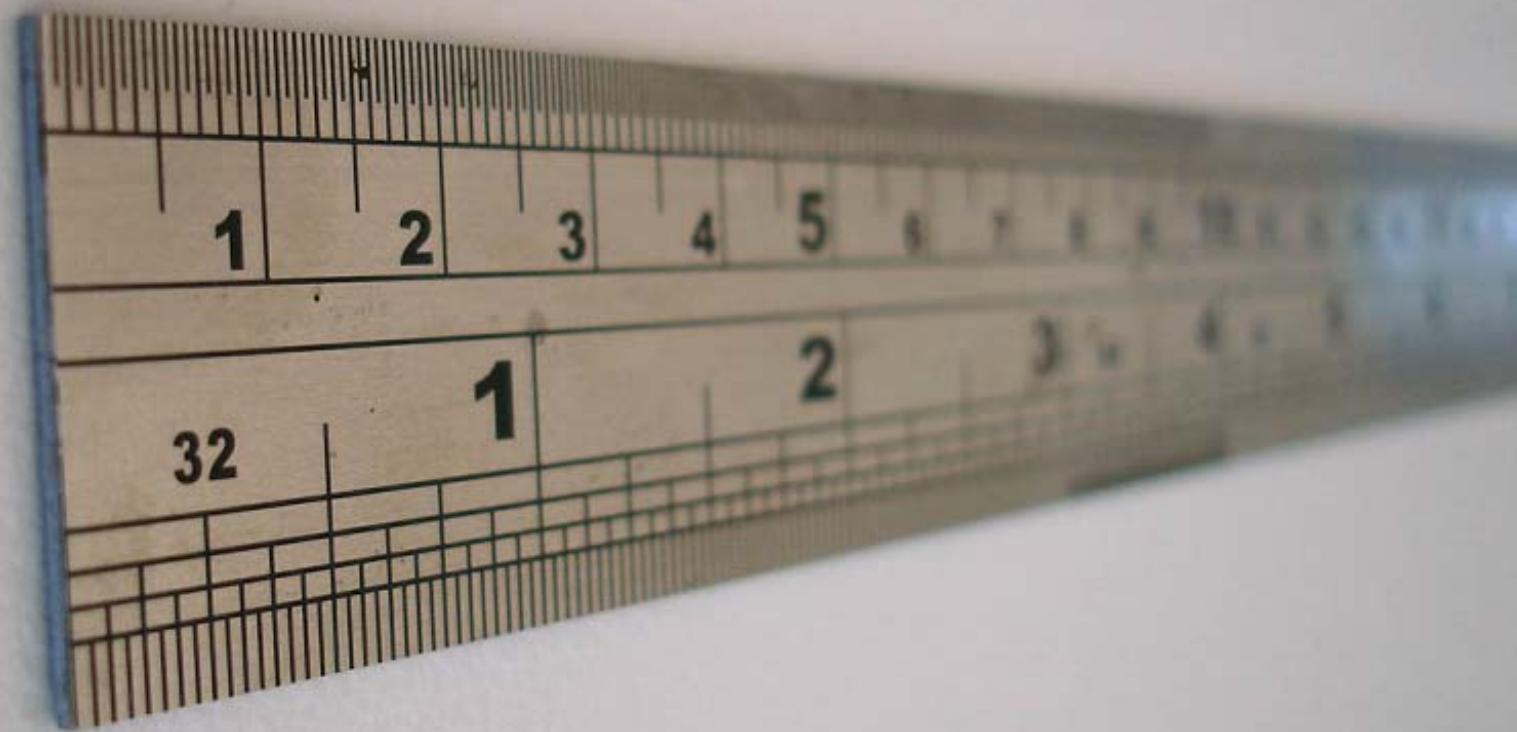


open source



goals





Alitheia :: Homepage

http://localhost:8080/?pid=111047

Google

SQO-OSS : System Bundles Alitheia :: Homepage

SQO OSS

Homepage

[Home](#)

[Projects](#) [JConvert](#)

[Users](#)

[Metrics](#)

[Files](#)

[Terriertest](#)

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Status: The cruncher is offline. (3 hits)

This is the Alitheia System

News items would be here for this specific deployment.

Evaluated Projects

Selected: [JConvert](#)

Website: [JConvert](#)

Contact: [JConvert](#)

SVN Mirror: <file:///Volumes/Files/Developer/JConvert/svn>

Bug Data: <bts:/Volumes/Files/Desktop/JConvert/bug>

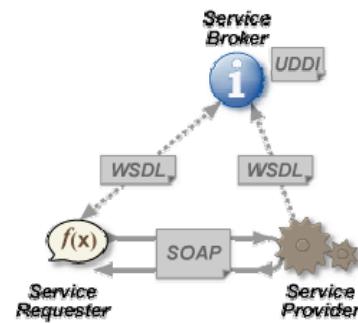
Files: [263](#)

Versions: 111049 - 111457

- [JConvert](#)
- [FileZilla](#)

Available Metrics

This project has not yet been evaluated!



S Q O O S S



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metrics



Arsenal



Aston Villa



Birmingham



Blackburn



Bolton



Charlton



Chelsea



Everton



Fulham



Liverpool



Manchester
City



Manchester
United



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Newcastle



Portsmouth



Sunderland



Tottenham



West Bromwich



West Ham



Wigan

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Technology: SQO-OSS Finds FreeBSD Better than Linux

Posted by [CmdrTaco](#) on Monday March 31, @11:44AM
from the [speaks-at-the-goog dept.](#)

eldavojohn writes

The San Francisco Chronicle is running an interesting story about [Google's involvement with the CIA, NSA, NOAA and several other agencies](#). This has been [speculated before](#) although now Google seems to have several contracts open with several agencies. From the article, "When the nation's intelligence agencies wanted a computer network to better share information about everything from al Qaeda to North Korea, they turned to a big name in the technology industry to supply some of the equipment: Google Inc. The Mountain View company sold the agencies servers for searching documents, marking a small victory for the company and its little-known effort to do business with the government. 'We are a very small group, and even a lot of people in the federal government don't know that we exist,' said Mike Bradshaw, who leads Google's federal government sales team and its 18 employees."

The logo consists of the letters "SQO" in a large, bold, black font, followed by "OSS" in a smaller, red font. A red dot is positioned between the "O" and the "S".

JavaOne

May 6–9, 2008

The Moscone Center
San Francisco, CAjava.sun.com/javaone

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difference



```
*      this entry has been selected by pax. bump up reference count and
*
*      -n and -d processing.
*/
void
ftree_sel(ARCHD *arcn)
{
    /*
     * set reference bit for this pattern. This linked list is only used
     * when file trees are supplied pax as args. The list is not used
     * if the trees are read from stdin.
     */
    if (ftcur != NULL)
        ftcur->refcnt = 1;

    /*
     * if -n we are done with this arg, force a skip to the next arg
     * pax asks for the next file in next_file().
     * if -d we tell fts only to match the directory (if the arg is a
     * directory) and not the entire file tree rooted at that point.
     */
    if (nflag)
        ftree_skip = 1;

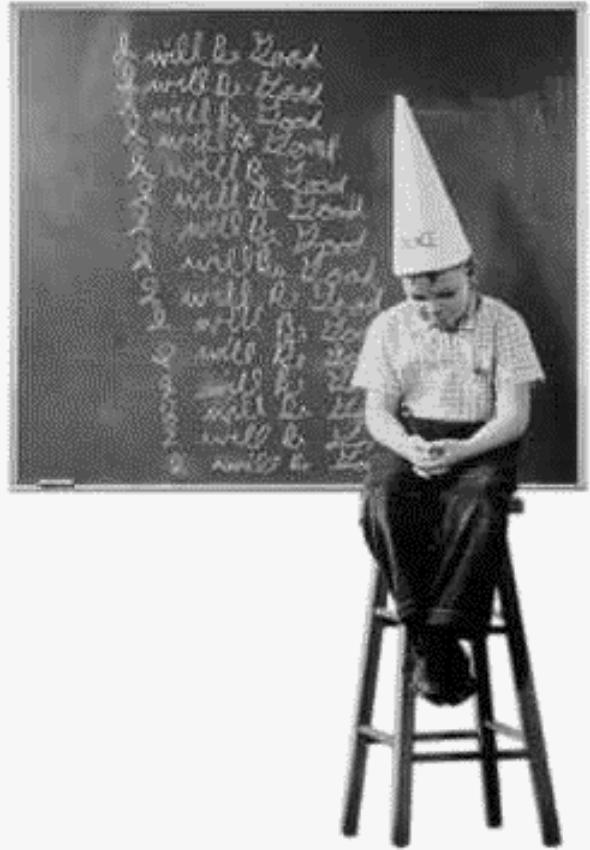
    if (!dflag || (arcn->type != PAX_DIR))
        return;

    if (ftent != NULL)
        (void) fts_set(ftsp, ftent, FTS_SKIP);
```

PR: 47395

style(9)

{man,doc}



March 2008 Archives by thread

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 - [CFT: vr\(4\)](#) Mike Tancsa
 - [CFT: vr\(4\)](#) Pyun YongHyeon



reply(thread)

close(thread)



11:26

9/9

0800 Antran started

1000 "

stopped - antran ✓

13" w.c (032) MP-MC

(033) PRO 2

convict

{ 1.2700 9.037 847 025

9.037 846 995 convict

~~1.982 1.7000~~ ~~2.130476415~~ (2) 4.615925059 (-2)

2.130476415

2.130676415

Relays 6-2 in 033 failed special speed test
in relay " 11.000 test .

Relay
2145
Relay 3370

1100

Started Cosine Tape (Sine check)

1525

Started Multi Adder Test.

1545



Relay #70 Panel F
(moth) in relay.

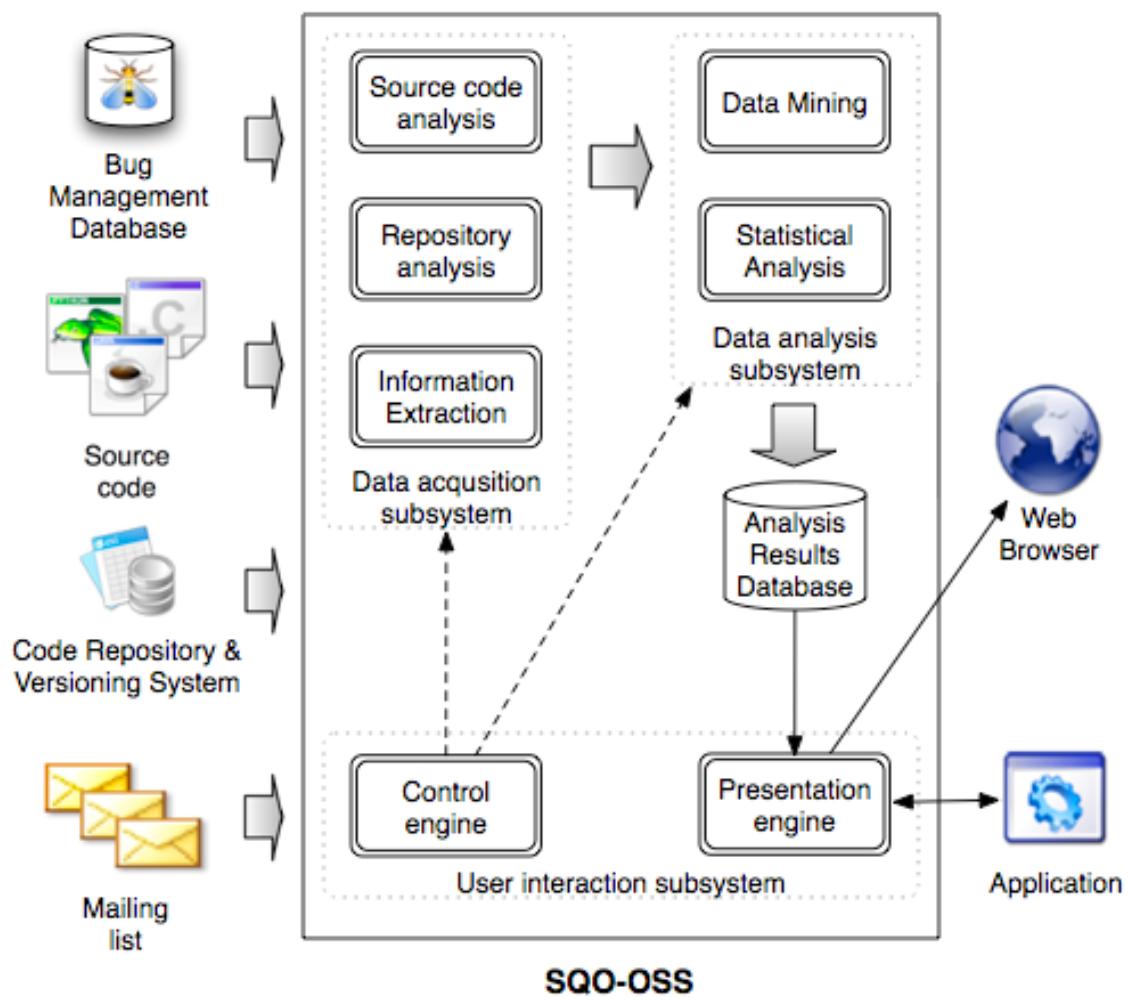
1630 Antran started.

1700 closed down .

First actual case of bug being found.

{report,close}
(in?valid)

[2] structure and operation

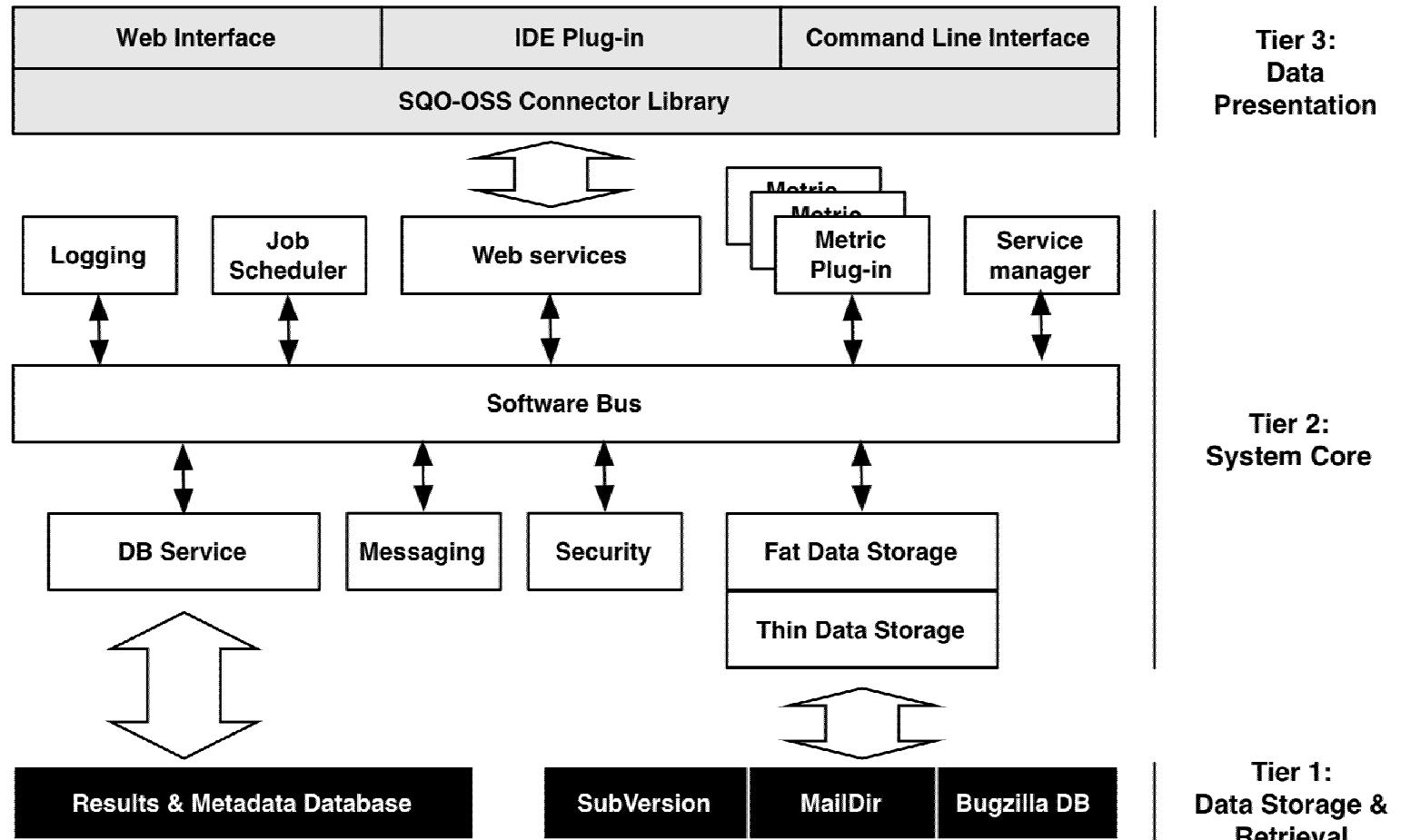




180 SI PHANG VIA
CHOR CHU KANG RD

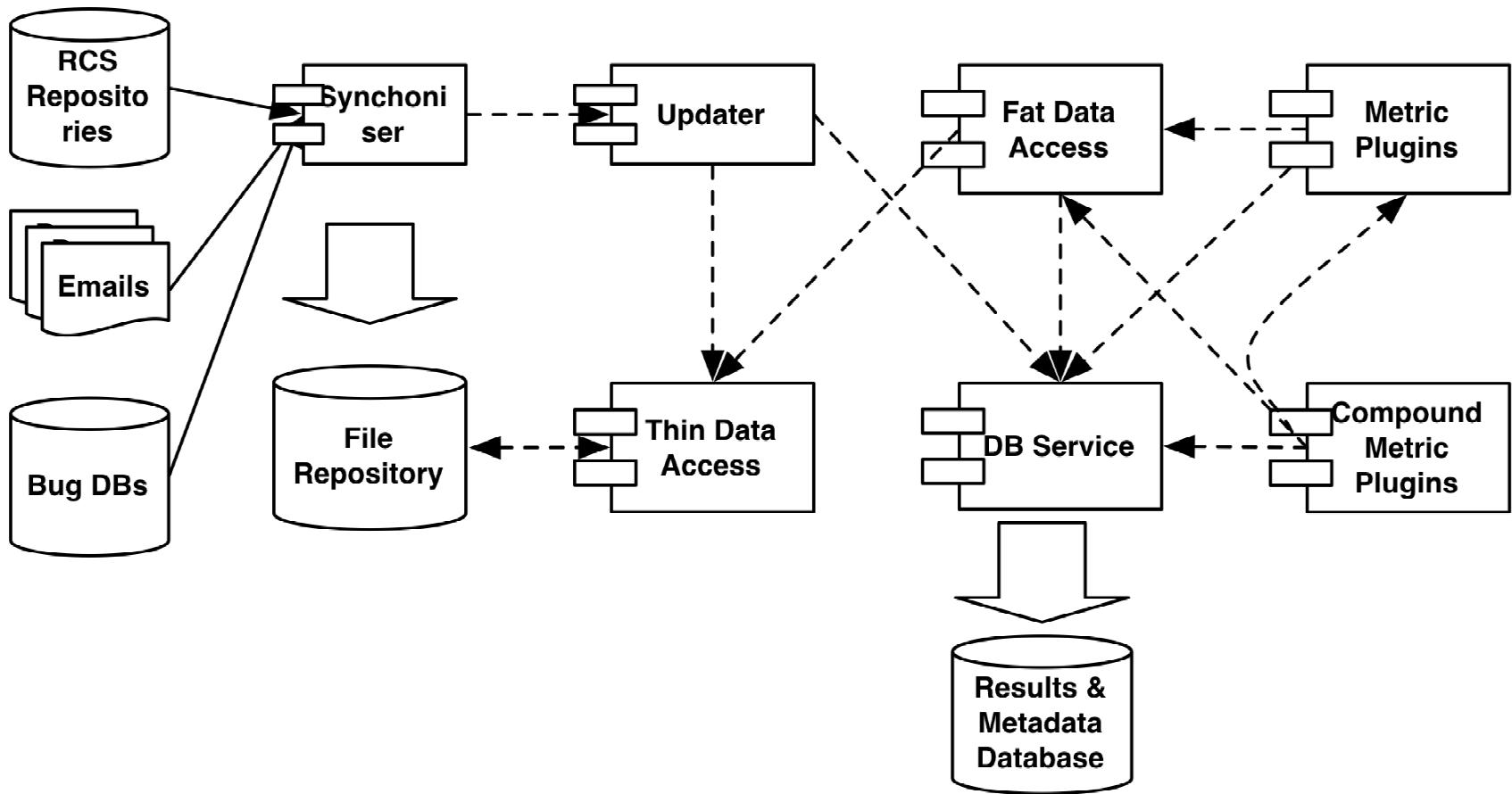
TRANS REAIS

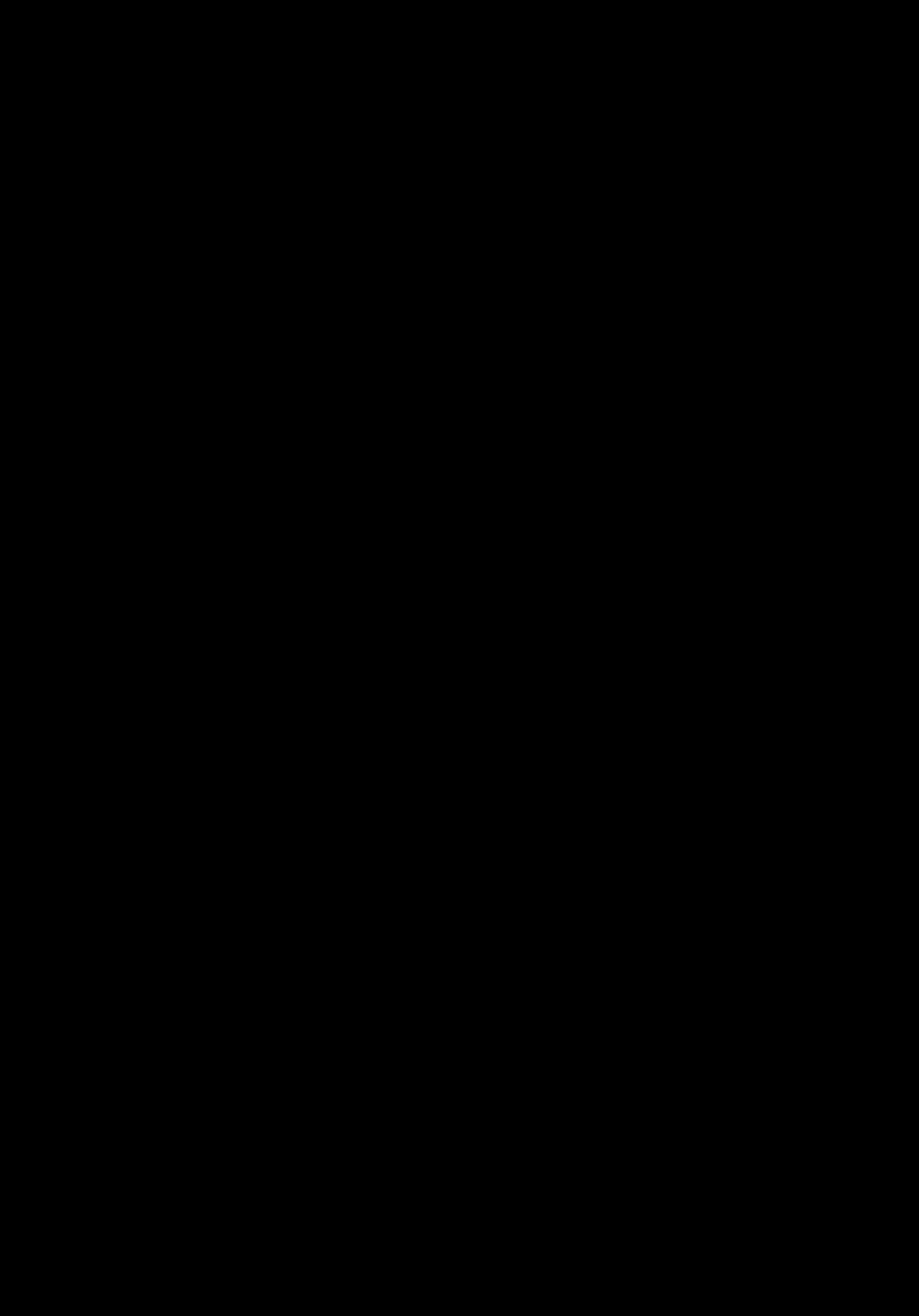
TB1216X

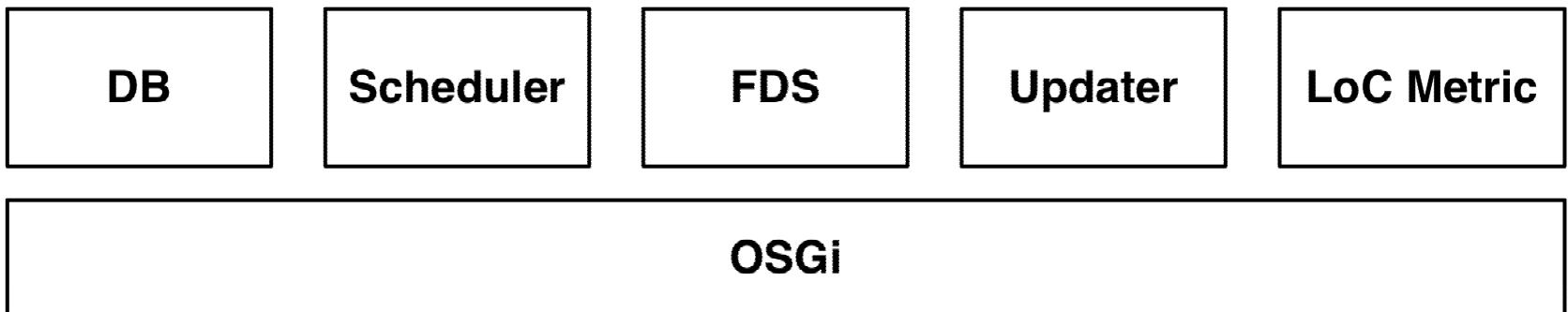


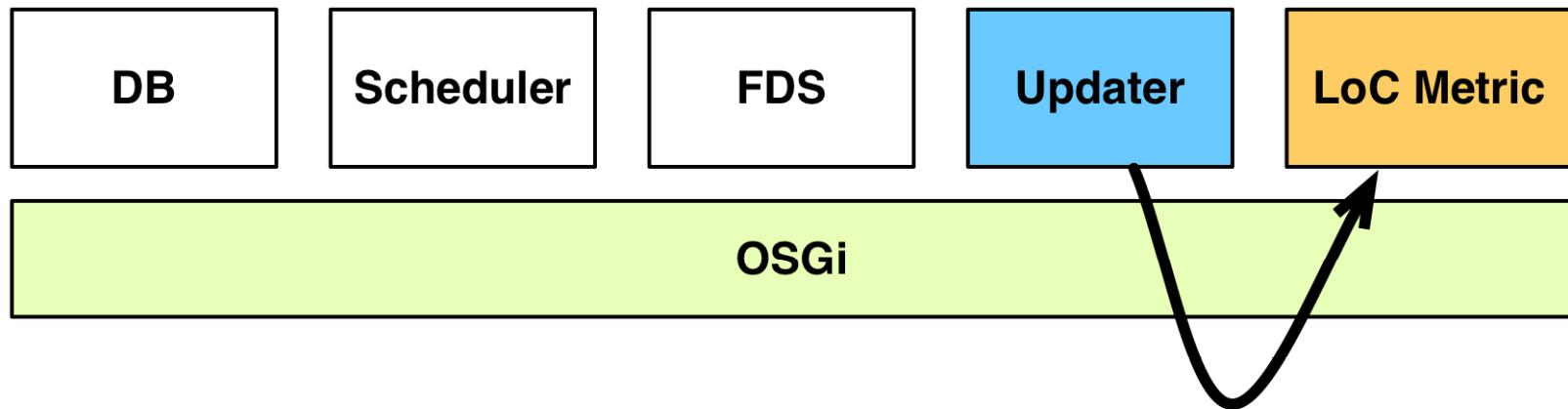
OSGi



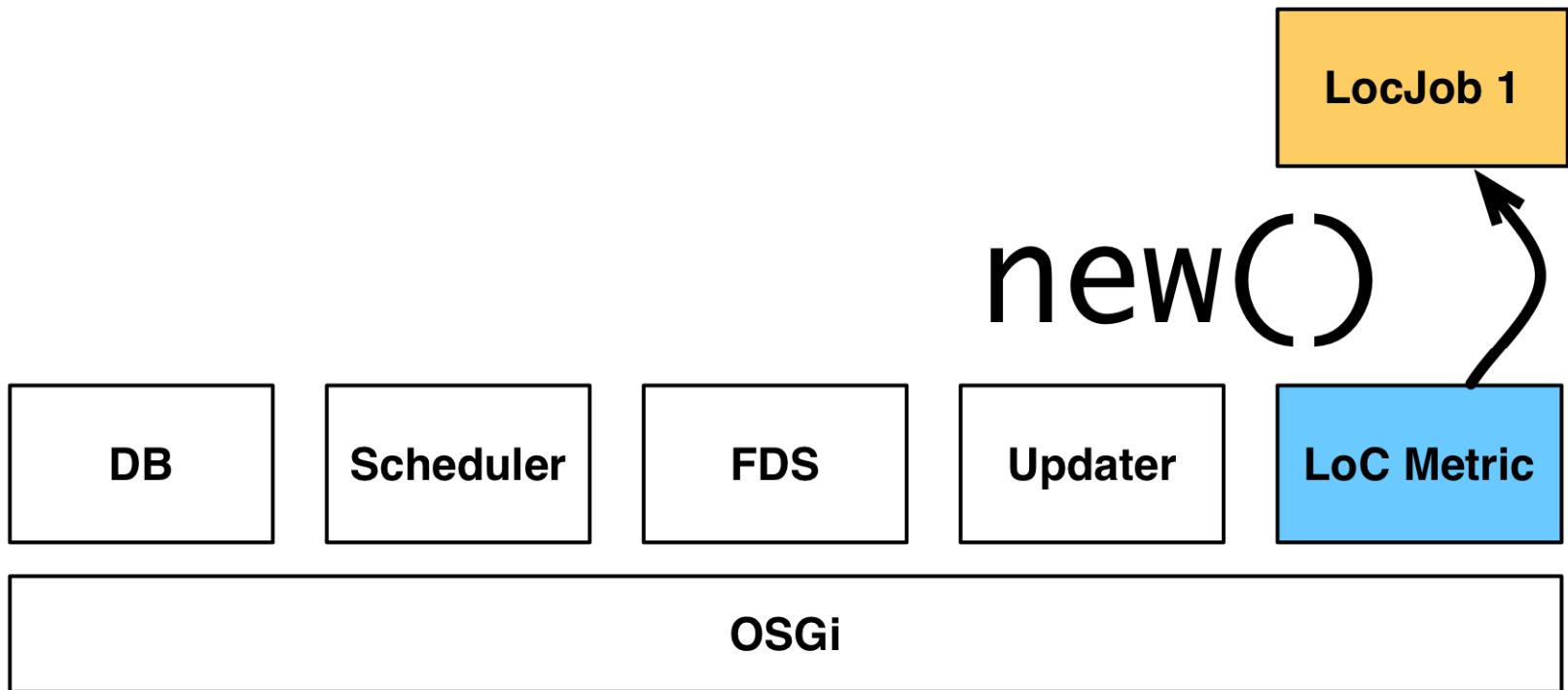


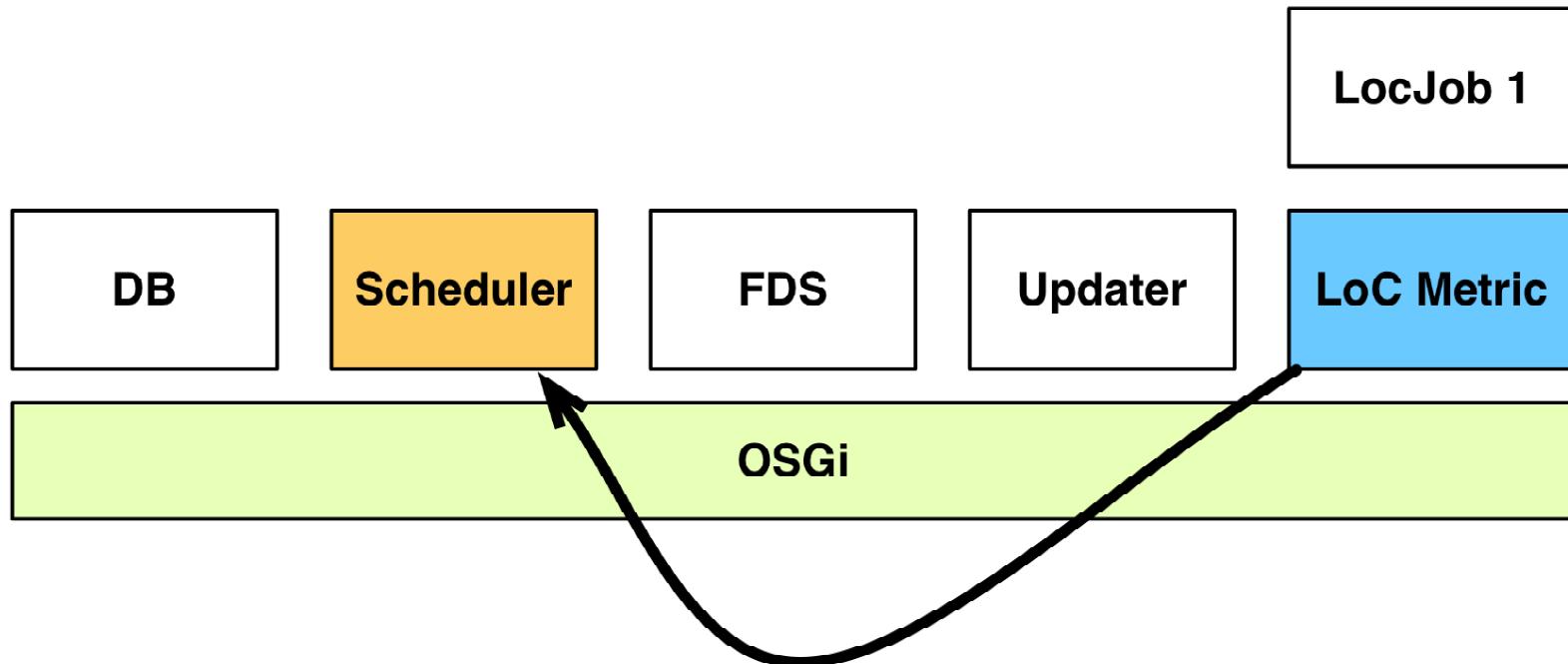




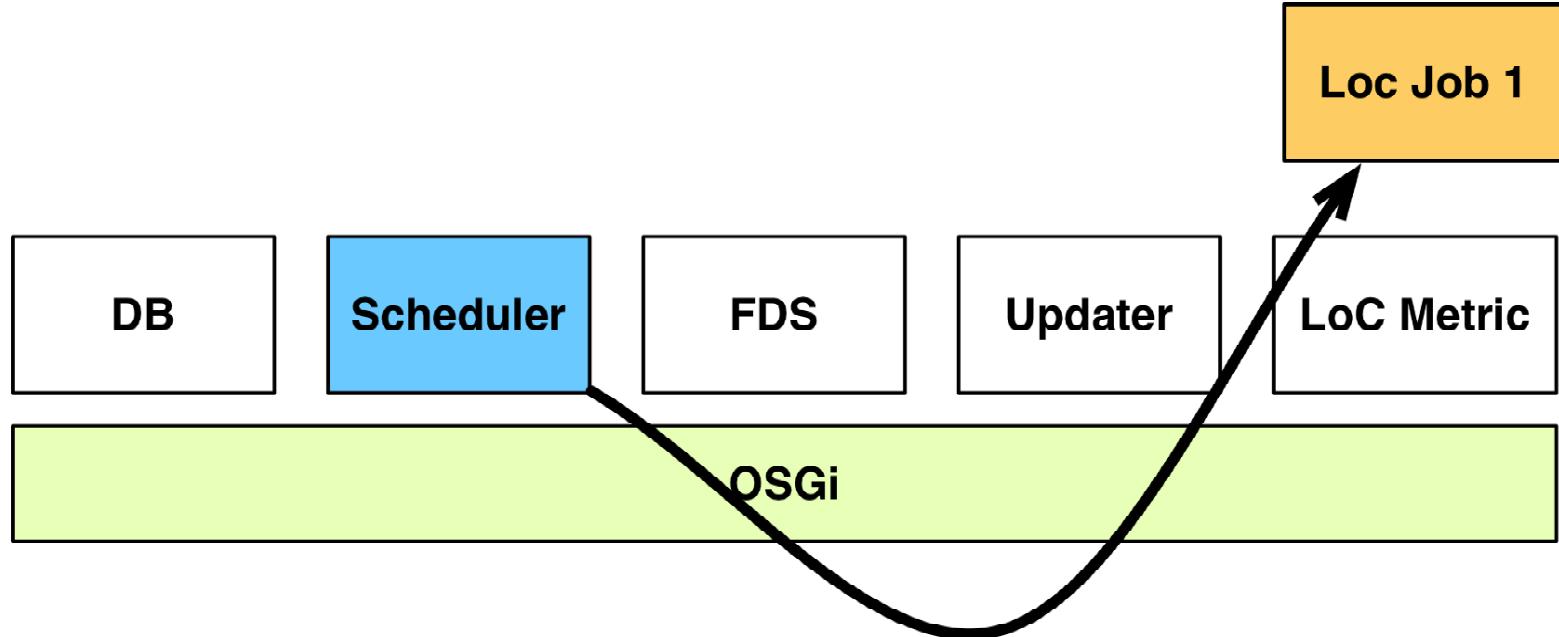


`run(ProjectFile)`

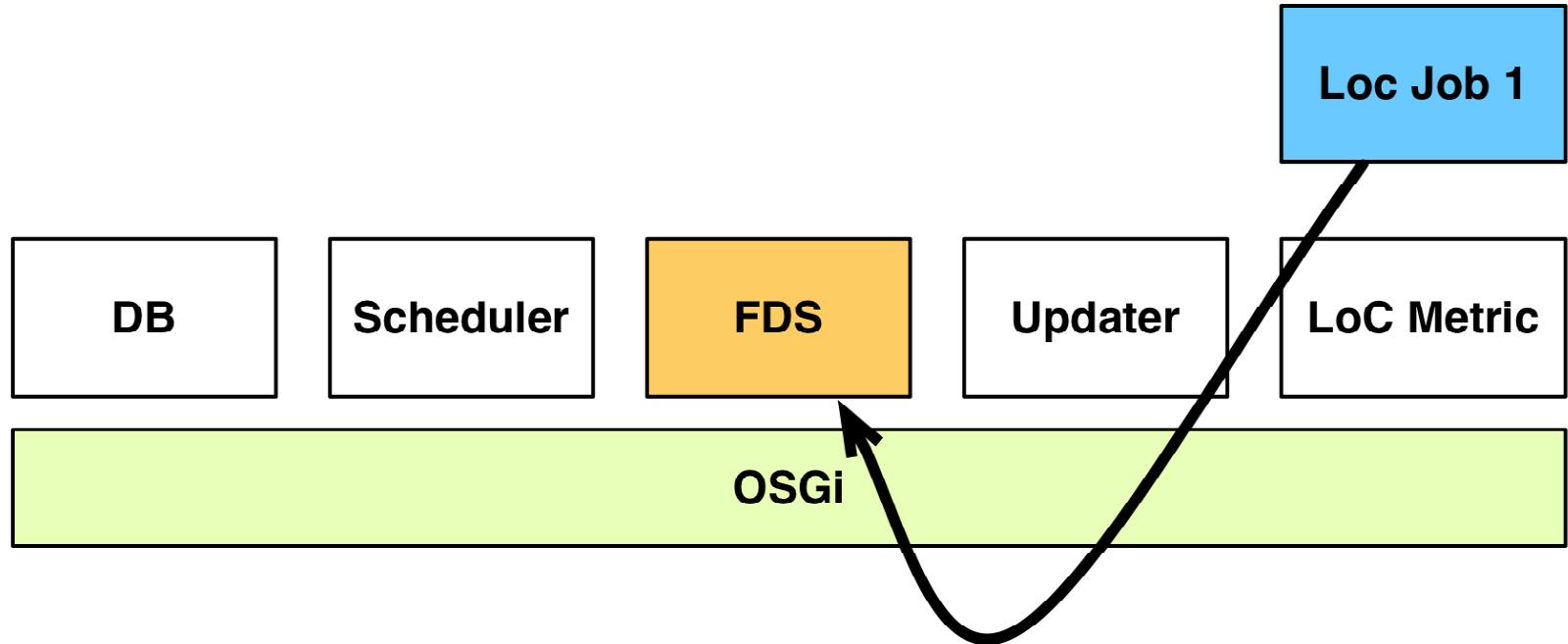




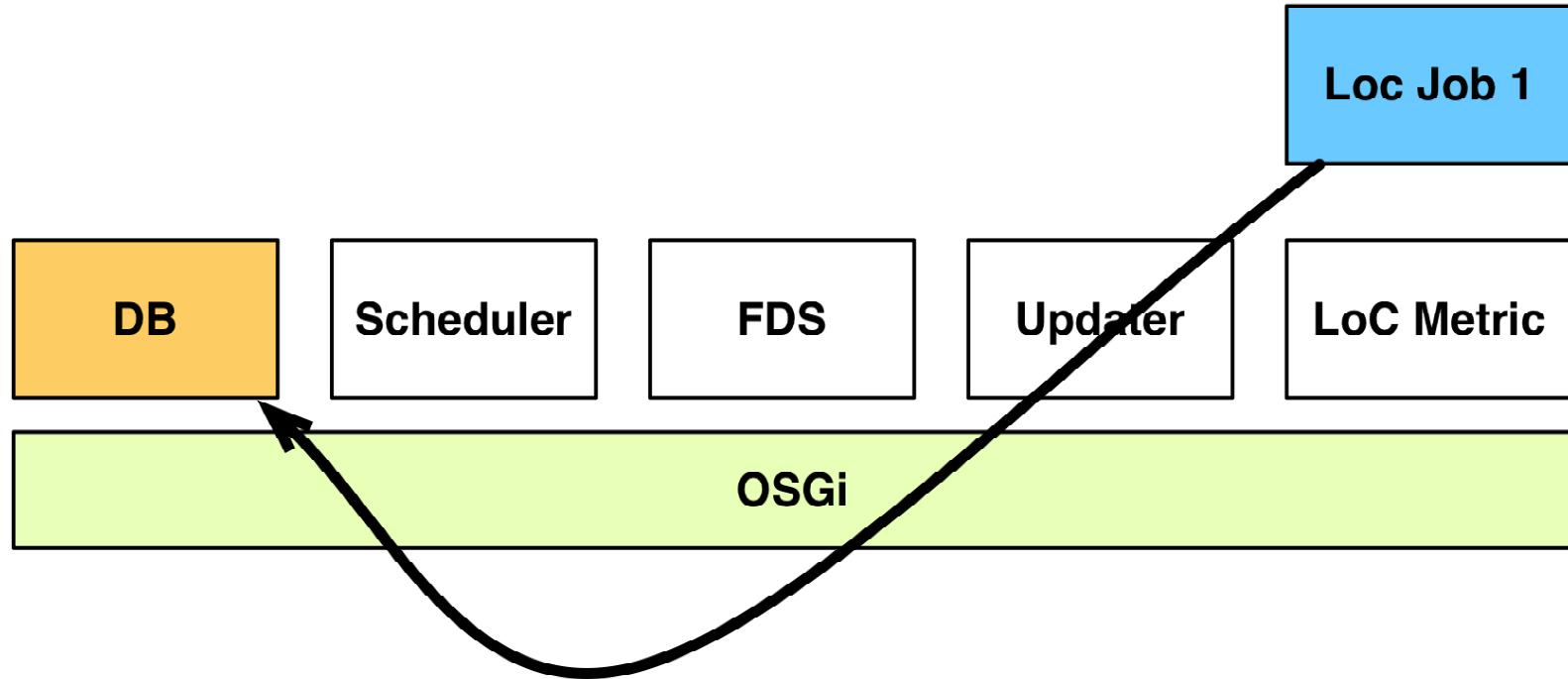
enqueue(LocJob)



run()

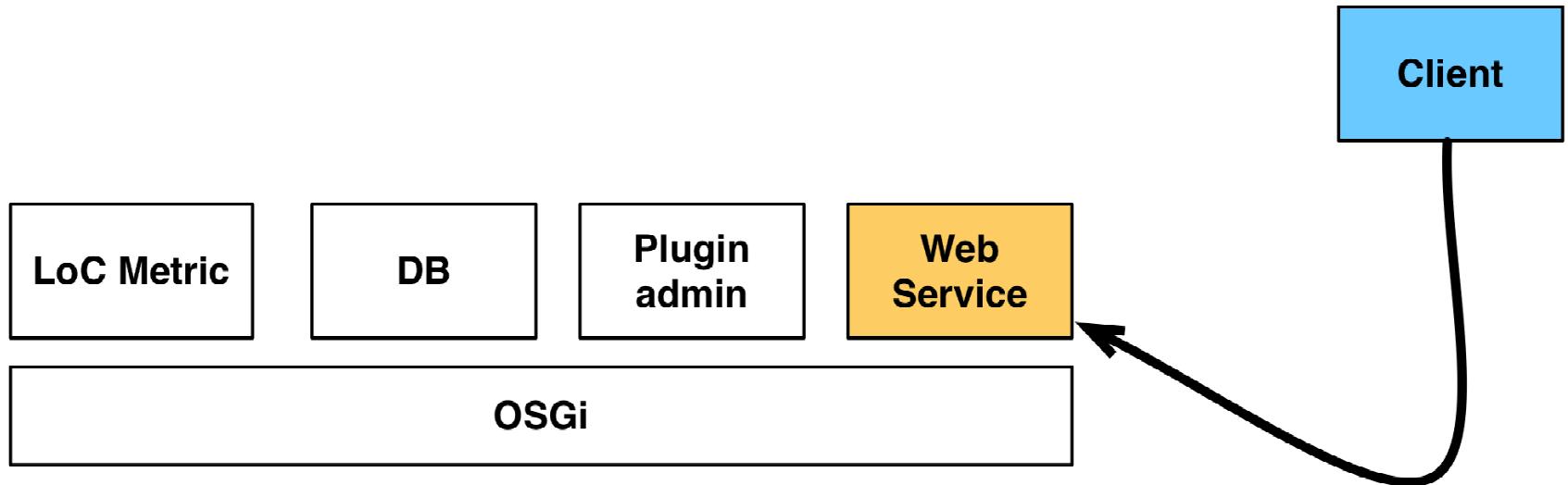


`getData(ProjectFile)`

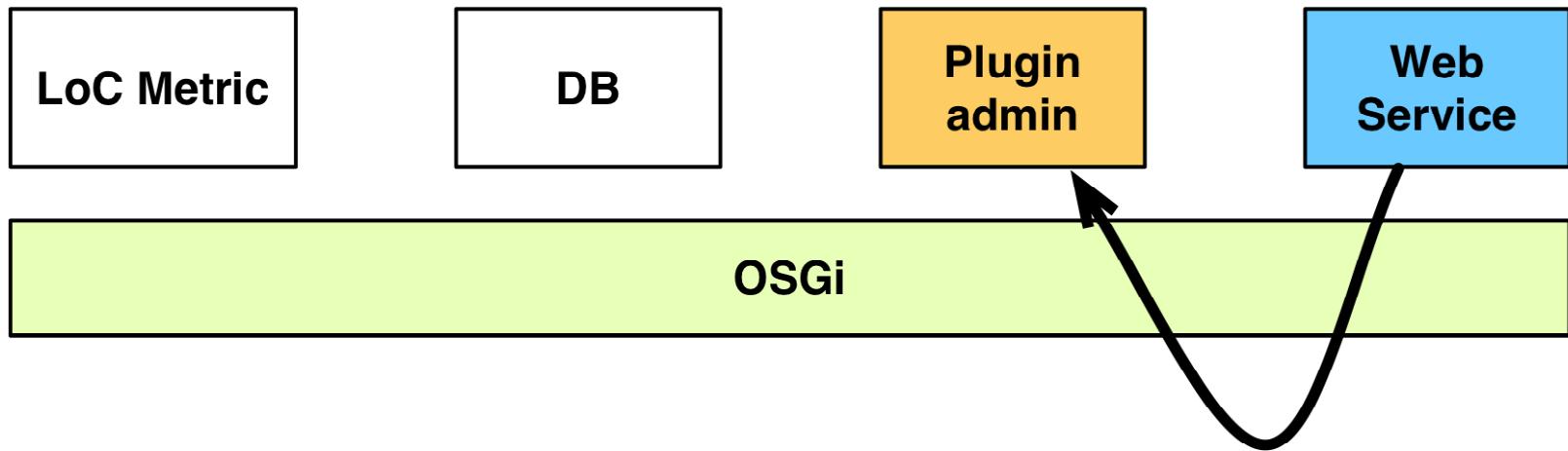


`addRecord(Result)`

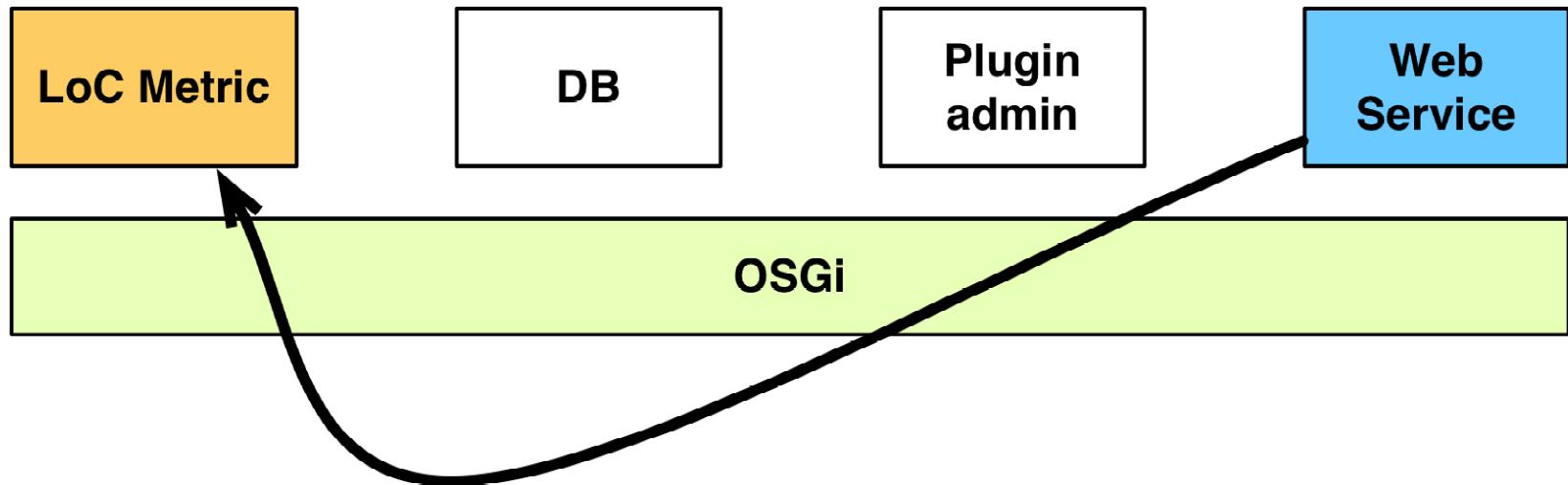




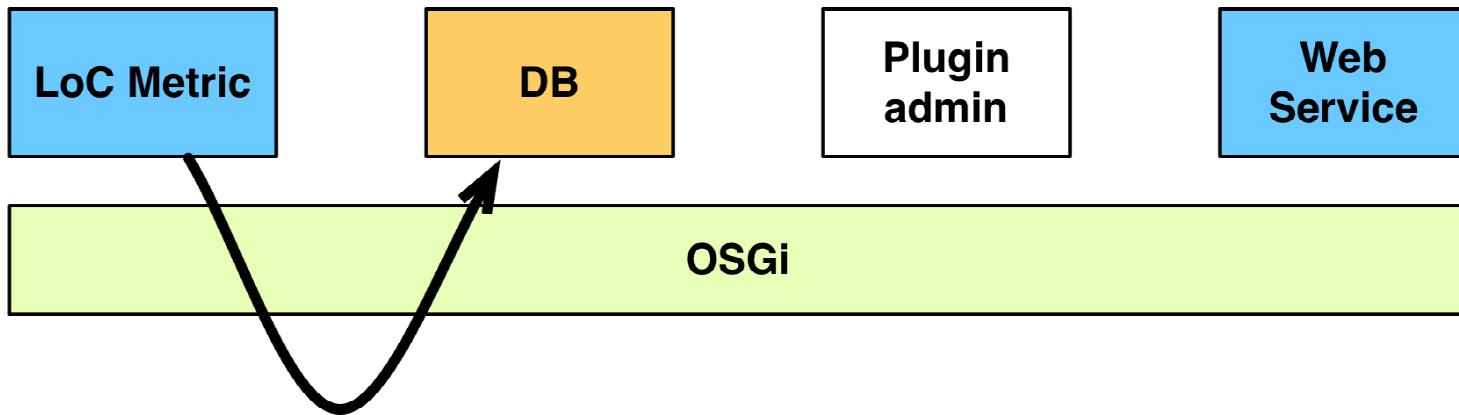
`getResult(Metric, File)`



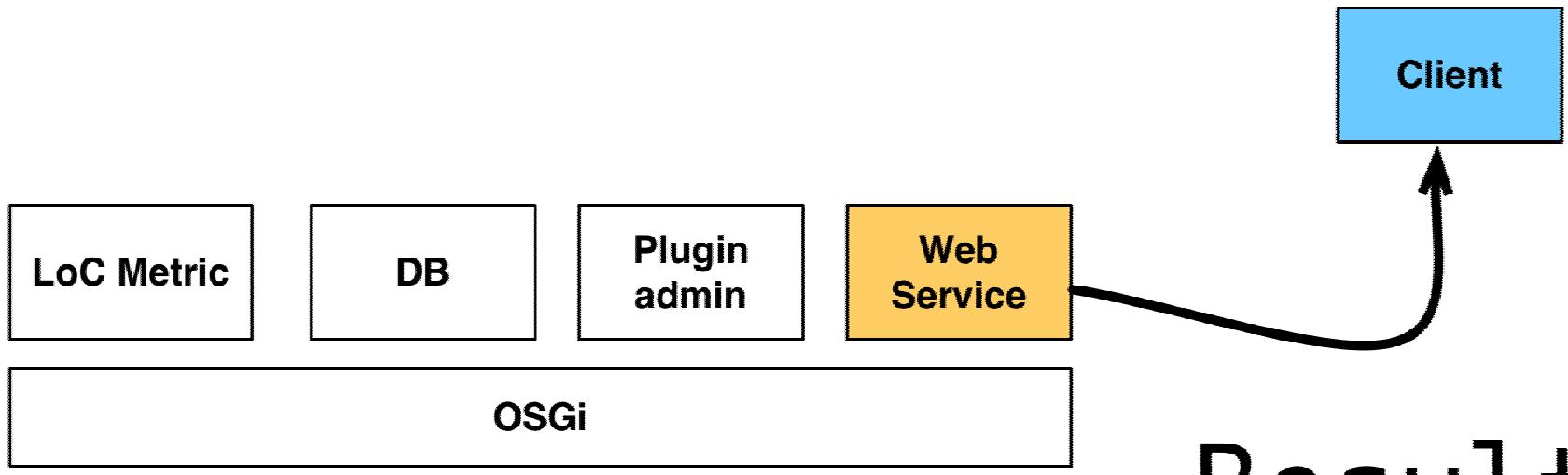
`getMetricRef(Metric)`



`getResult(File)`



`findResultObject(File)`



Result

```
public interface Metric {  
  
    String getVersion();  
    String getAuthor();  
    Date getDateInstalled();  
    String getName();  
    String getDescription();  
    Result getResult(DAOObject o);  
    void run(DAOObject o);  
    boolean update();  
    boolean install();  
    boolean remove();  
}
```

```
public void run() {
    Measurement m = new Measurement();

    int lines = 0;
    File f = fds.getFile(pf);
    try {
        LineNumberReader lnr = new LineNumberReader(new
            FileReader(f));
        for (;;) {
            lnr.readLine();
            lines++;
        }
    } catch (FileNotFoundException e) {
        log.error(this.getClass().getName() + " Cannot open file: " +
            f.getAbsolutePath());
    } catch (IOException ignored) {
    }
    m.setMeasurement(lines);
    m.setProjectVersion(pf.getProjectVersion());
    db.addRecord(m);
}
```

administration

**Admin Panel**

Bundles

Logs

Projects

Jobs

Installed Bundles

Bundle	Status	Services Utilised
org.eclipse.osgi	active	<ul style="list-style-type: none"> • org.osgi.service.packageadmin.PackageAdmin • org.osgi.service.startlevel.StartLevel • org.eclipse.osgi.framework.log.FrameworkLog • org.eclipse.osgi.framework.log.FrameworkLog • javax.xml.parsers.SAXParserFactory • javax.xml.parsers.DocumentBuilderFactory • org.eclipse.osgi.service.datalocation.Location • org.eclipse.osgi.service.datalocation.Location • org.eclipse.osgi.service.datalocation.Location • org.eclipse.osgi.service.datalocation.Location • org.eclipse.osgi.service.urlconversion.URLConverter • org.eclipse.osgi.service.environment.EnvironmentInfo • org.eclipse.osgi.service.resolver.PlatformAdmin • org.eclipse.osgi.service.pluginconversion.PluginConverter • org.eclipse.osgi.framework.console.CommandProvider • org.eclipse.osgi.service.localization.BundleLocalization • org.eclipse.osgi.internal.provisional.verifier.CertificateVerifierFactory • org.eclipse.osgi.internal.provisional.verifier.CertificateTrustAuthority • org.eclipse.osgi.framework.console.CommandProvider • org.eclipse.osgi.service.runnable.ApplicationLauncher
org.eclipse.osgi.util	active	<ul style="list-style-type: none"> • <none>
org.eclipse.osgi.services	active	<ul style="list-style-type: none"> • <none>

Status

Uptime: 0:00:01:32

Job Queue Length: 0

Job Info

Jobs Executing: 0

Jobs Waiting: 0

Failed Jobs: 0

Worker Threads: 2

Total Jobs: 265

Options

Restart

Stop

SQO-OSS : System Bundles

Alitheia :: Homepage

org.dom4j	active	• <none>
org.hibernate	active	• <none>
org.postgresql.jdbc	active	• <none>
org.apache.derby	active	• <none>
org.tmatesoft.svn	active	• <none>
eu.sqooss.lib.result	active	• <none>
eu.sqooss.service.core	active	<ul style="list-style-type: none">• eu.sqooss.core.AlitheiaCore• org.eclipse.osgi.framework.console.CommandProvider
eu.sqooss.service.web.services	active	<ul style="list-style-type: none">• eu.sqooss.service.web.services.WebServices
eu.sqooss.metric.wc	active	<ul style="list-style-type: none">• eu.sqooss.impl.metrics.wc.WcImplementation
eu.sqooss.metric.productivity	active	<ul style="list-style-type: none">• eu.sqooss.impl.metrics.productivity.ProductivityMetricImpl
eu.sqooss.service.tester	active	<ul style="list-style-type: none">• <none>

Admin Panel

Bundles



Logs

**Alitheia Logs**

- WARN [Start Level Event Dispatcher] sqooss.tds - Mail access uses an unsupported URL scheme <>
- WARN [Start Level Event Dispatcher] sqooss.metric - Plugin <Wc metric plug-in> is already installed, won't re-install.
- WARN [SocketListener0-3] sqooss.tds - Could not get latest revision of JConvertsvn: Unable to open an ra_local session to URL svn: Unable to open repository
'file:///Volumes/Files/Desktop/JConvert svn' svn: Unable to open repository
'file:///Volumes/Files/Desktop/JConvert svn'
- WARN [SocketListener0-3] sqooss.webadmin - Error accessing repository. Project not added
- WARN [Thread-10] sqooss.updater - MailingList - No list found for project JConvert
- WARN [Thread-11] sqooss.updater - No last stored version of project JConvert

Status

Uptime: 0:00:03:09

Job Queue Length: 0

Job Info

Executing:	0
Waiting:	0
Failed:	0
Total:	265
Workers:	2

Options**Restart****Stop**

Admin Panel

**Install new project**Project Name: Website: Contact: Bug Database: Mail: Subversion: **Installed Projects**

- JConvert ([id=111047]) Update:[CODE](#) [MAIL](#) [BUGS](#) [ALL](#)

Status

Uptime: 0:00:03:27

Job Queue Length: 0

Job Info

Jobs Executing: 0

Jobs Waiting: 0

Failed Jobs: 0

Worker Threads: 2

Total Jobs: 265

Options

Admin Panel



Install new project

Project Name: Website: Contact: Bug Database: Mail: Subversion:

Installed Projects

- JConvert ([id=111047]) Update:[CODE](#) [MAIL](#) [BUGS](#) [ALL](#)

Status

Uptime: 0:00:03:27

Job Queue Length: 0

Job Info

Jobs Executing: 0

Jobs Waiting: 0

Failed Jobs: 0

Worker Threads: 2

Total Jobs: 265

Options



 Bundles  Logs  Projects  Jobs

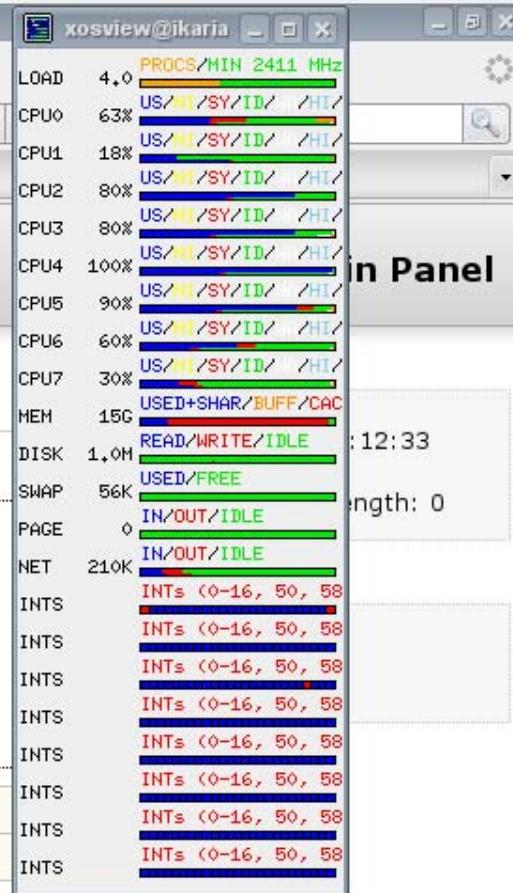
Job statistics

- ◆ Jobs Executing: 2
 - ◆ Jobs Waiting: 0
 - ◆ Failed Jobs: 0
 - ◆ Worker Threads: 8
 - ◆ Total Jobs: 16705

Job details

Job failure statistics

Job Type	Num Jobs Failed
null	null

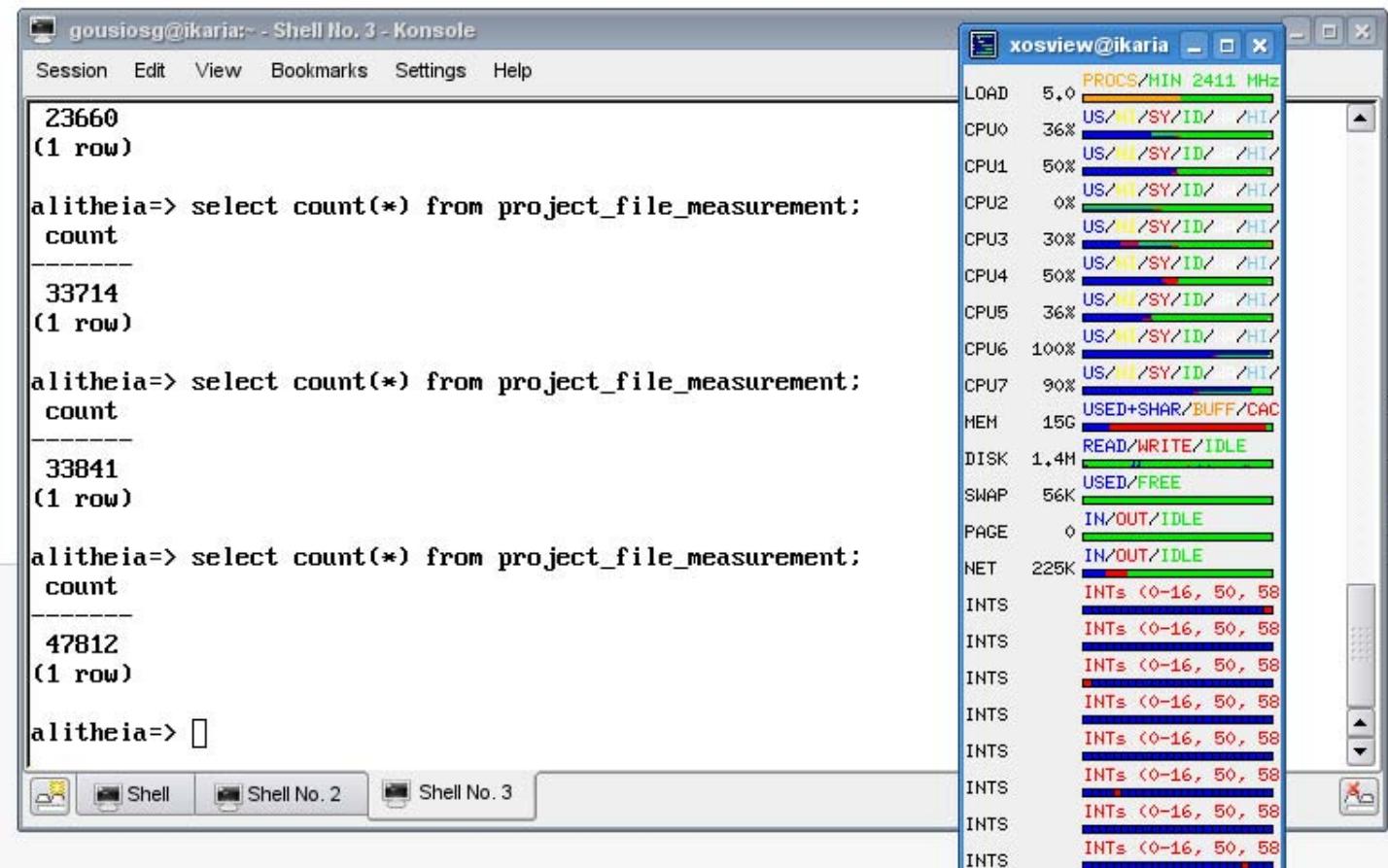


```
gousiosg@ikaria:...qo-oss-devel/trunk - Shell - Konsole
Session Edit View Bookmarks Settings Help

Hibernate: insert into PROJECT_FILE_MEASUREMENT (METRIC_ID, PROJECT_FILE_ID, WHEN_RUN, RES
ULT, PROJECT_FILE_MEASUREMENT_ID) values (?, ?, ?, ?, ?)
Hibernate: select nextval ('hibernate_sequence')
Hibernate: insert into PROJECT_FILE_MEASUREMENT (METRIC_ID, PROJECT_FILE_ID, WHEN_RUN, RES
ULT, PROJECT_FILE_MEASUREMENT_ID) values (?, ?, ?, ?, ?)
Hibernate: insert into PROJECT_FILE_MEASUREMENT (METRIC_ID, PROJECT_FILE_ID, WHEN_RUN, RES
ULT, PROJECT_FILE_MEASUREMENT_ID) values (?, ?, ?, ?, ?)
Hibernate: insert into PROJECT_FILE_MEASUREMENT (METRIC_ID, PROJECT_FILE_ID, WHEN_RUN, RES
ULT, PROJECT_FILE_MEASUREMENT_ID) values (?, ?, ?, ?, ?)
Hibernate: select nextval ('hibernate_sequence')
Hibernate: insert into PROJECT_FILE_MEASUREMENT (METRIC_ID, PROJECT_FILE_ID, WHEN_RUN, RES
ULT, PROJECT_FILE_MEASUREMENT_ID) values (?, ?, ?, ?, ?)
Hibernate: insert into PROJECT_FILE_MEASUREMENT (METRIC_ID, PROJECT_FILE_ID, WHEN_RUN, RES
ULT, PROJECT_FILE_MEASUREMENT_ID) values (?, ?, ?, ?, ?)
```



Admin Panel



Status

Uptime: 0:00:17:11

Job Queue Length: 0

Options

Restart

Stop

Admin Panel

Bundles

Logs

Projects

Jobs

Job statistics

- Jobs Executing: 2
- Jobs Waiting: 5068
- Failed Jobs: 0
- Worker Threads: 2
- Total Jobs: 7080

[Job details](#)**Job failure statistics**

Job Type	Num Jobs Failed
null	null

Status

Uptime: 0:00:05:31

 Job Queue Length:
5068**Options**

Restart

Stop

WWW



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[Metrics](#)
[Terriertest](#)
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Status: The cruncher is offline. (2 hits)

This is the Alitheia System

News items would be here for this specific deployment.

Evaluated Projects

Selected: **No project selected.**

- [JConvert](#)
- [FileZilla](#)

Available Metrics

- Developer Interaction
- Mailing List Activity
- Cyclomatic Complexity
- Commit Statistics
- Line Count

Alitheia :: Homepage

http://localhost:8080/?pid=111047

Google

SQO-OSS : System Bundles Alitheia :: Homepage

SQO OSS

Homepage

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Status: The cruncher is offline. (3 hits)

This is the Alitheia System

News items would be here for this specific deployment.

Evaluated Projects

Selected: [JConvert](#)

Website: [JConvert](#)

Contact: [JConvert](#)

SVN Mirror: <file:///Volumes/Files/Developer/JConvert/svn>

Bug Data: <bts:/Volumes/Files/Desktop/JConvert/bug>

Files: [263](#)

Versions: 111049 - 111457

- [JConvert](#)
- [FileZilla](#)

Available Metrics

This project has not yet been evaluated!

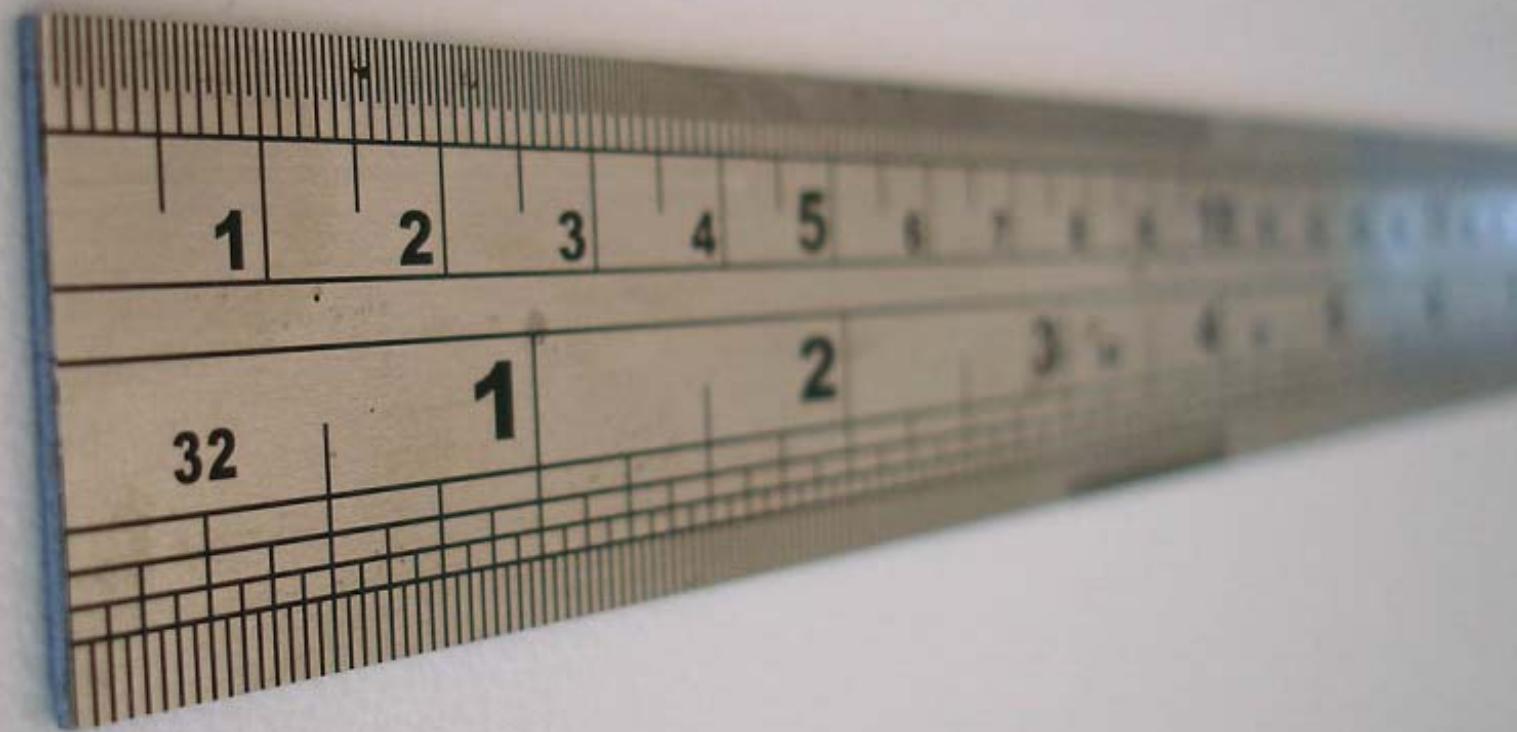


performance

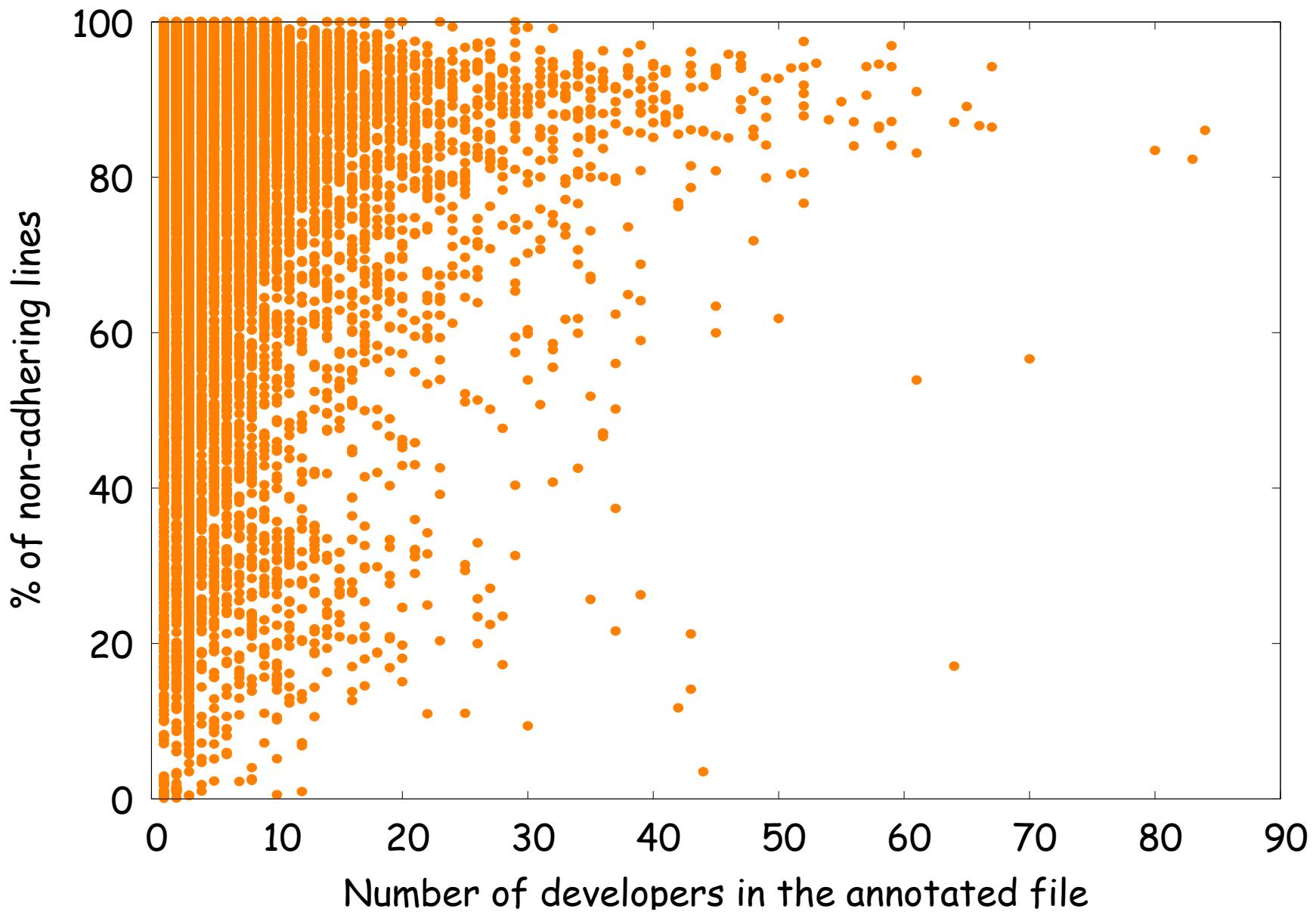
```
select d.path||'/'||head.fname, pf.project_file_id, pf.file_status, pfm.result
from
(
select pf.directory_id as dir, pf.file_name as fname, max(pv.project_version_id) as headrev
from project_file pf, project_version pv
where pf.project_version_id=pv.project_version_id
    and pv.stored_project_id = 61661
    and pv.timestamp <= (
        select pv2.timestamp
        from project_version pv2
        where pv2.project_version_id = 62095
    )
group by pf.directory_id, pf.file_name
) head, project_file pf, directory d, project_file_measurement pfm
where d.directory_id = pf.directory_id
    and pfm.project_file_id = pf.project_file_id
    and head.dir = pf.directory_id
    and head.fname = pf.file_name
    and pf.project_version_id = head.headrev
    and pf.file_status<>'DELETED'
order by d.path, head.fname
```

sh

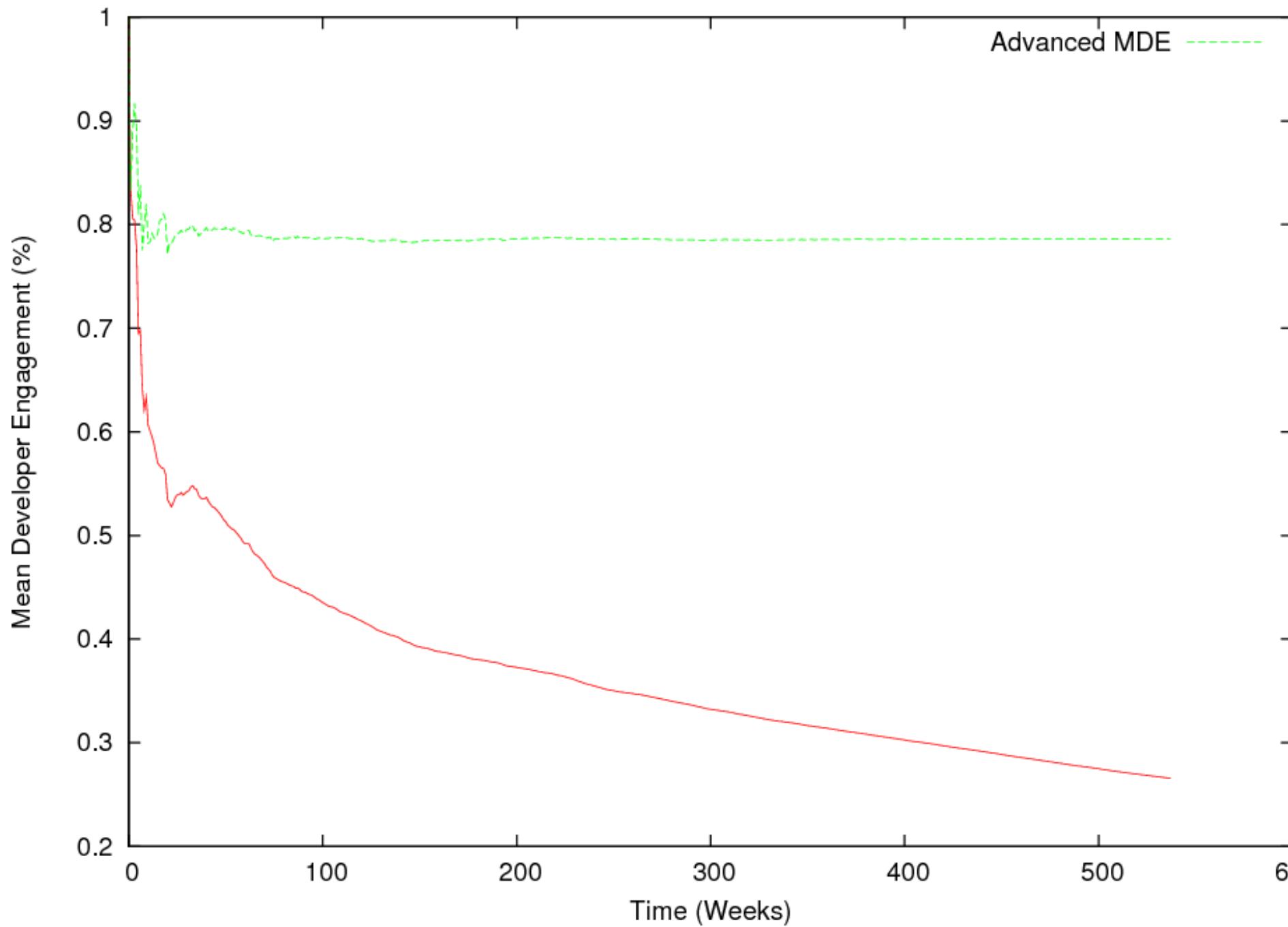
[3] research



Developers v Quality

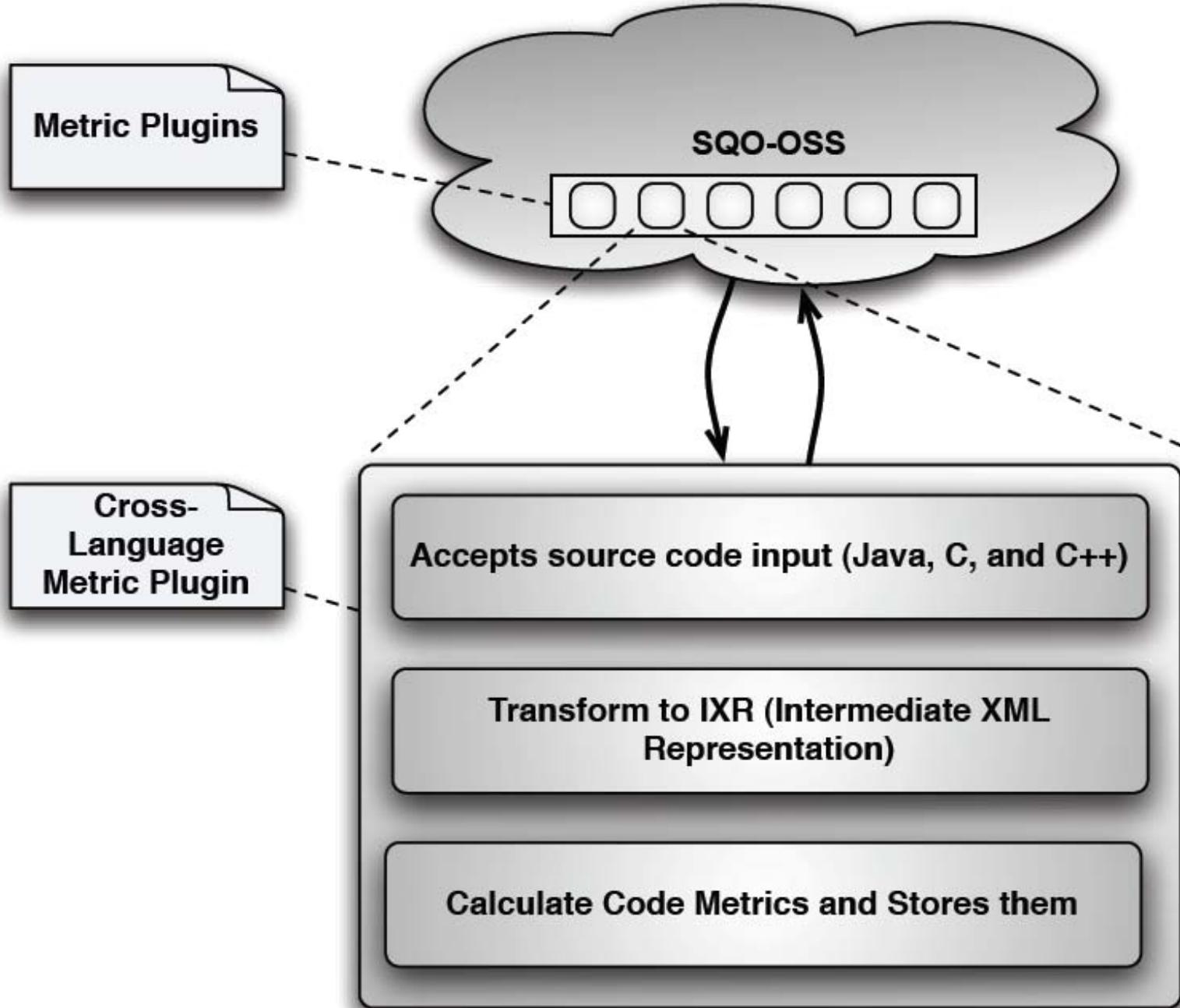


Mean Developer Engagement



KDE != SF

Cross-Language Metric Tool



Developer Contribution

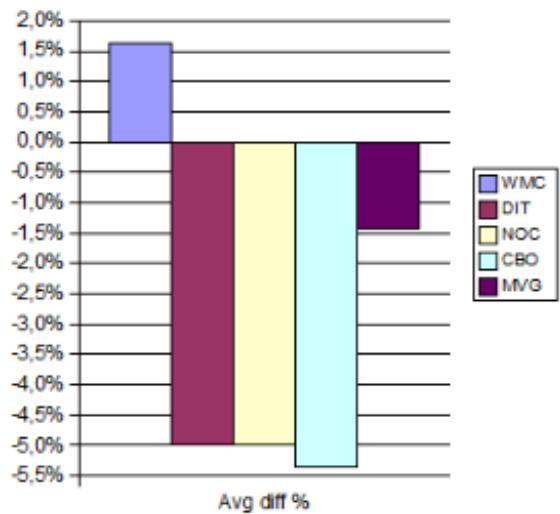
LoC

Still relevant?

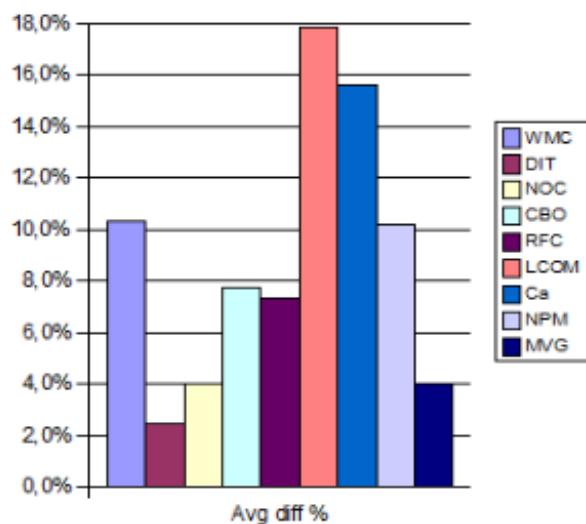
$$CF(d) = \alpha\sum_{i=0}^n w_i^{rep}A_i^{rep}(d)+\cdots+\epsilon\sum_{i=0}^n w_i^{irc}A_i^{irc}(d)$$

Refactoring v Software Quality

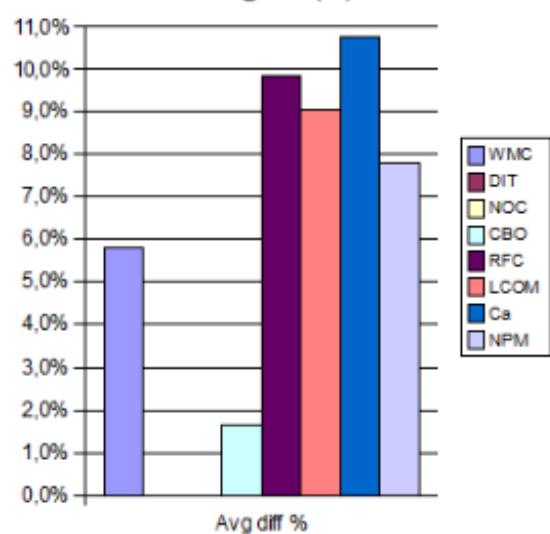
Connector/J



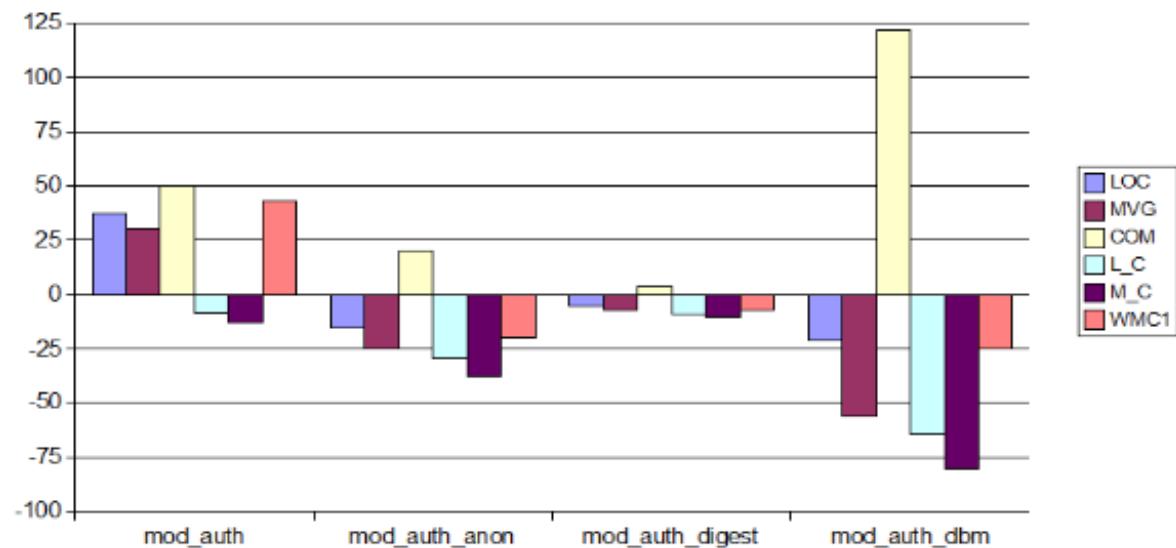
Hibernate



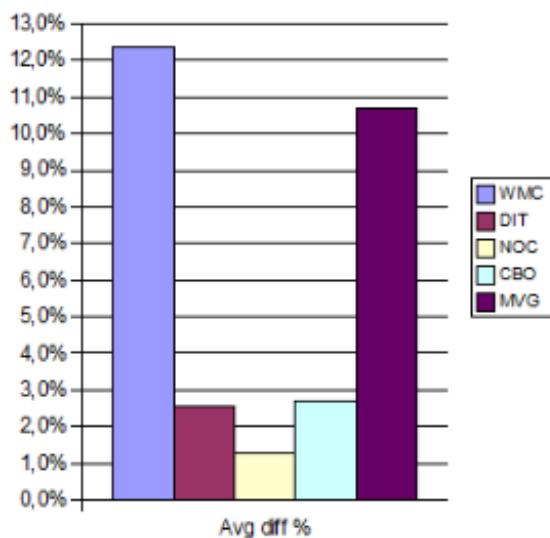
Log4J (a)



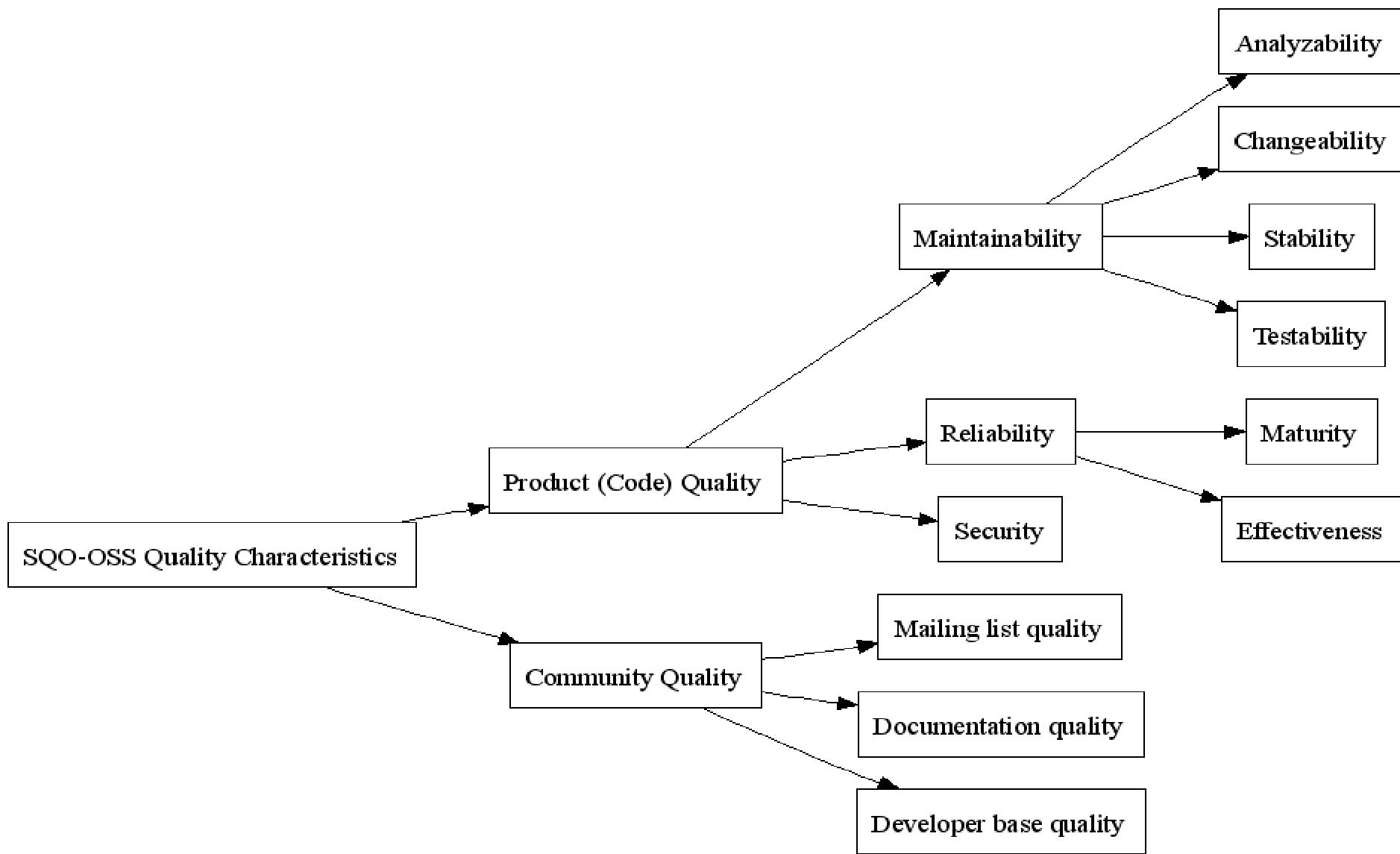
Apache httpd modules



Log4J (b)



SQO-OSS quality model



Slashdot

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Technology: SQO-OSS Finds FreeBSD Better than Linux

Posted by [CmdrTaco](#) on Monday March 31, @11:44AM
from the [speaks-at-the-goog dept.](#)

eldavojohn writes

The San Francisco Chronicle is running an interesting story about [Google's involvement with the CIA, NSA, NOAA and several other agencies](#). This has been [speculated before](#) although now Google seems to have several contracts open with several agencies. From the article, "When the nation's intelligence agencies wanted a computer network to better share information about everything from al Qaeda to North Korea, they turned to a big name in the technology industry to supply some of the equipment: Google Inc. The Mountain View company sold the agencies servers for searching documents, marking a small victory for the company and its little-known effort to do business with the government. 'We are a very small group, and even a lot of people in the federal government don't know that we exist,' said Mike Bradshaw, who leads Google's federal government sales team and its 18 employees."

The logo consists of the letters "SQO" in a large, bold, black font, followed by "OSS" in a smaller, red font. A red dot is positioned between the "O" and the "S".

JavaOne

May 6–9, 2008

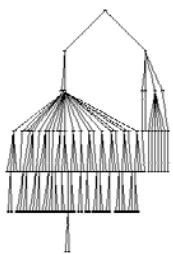
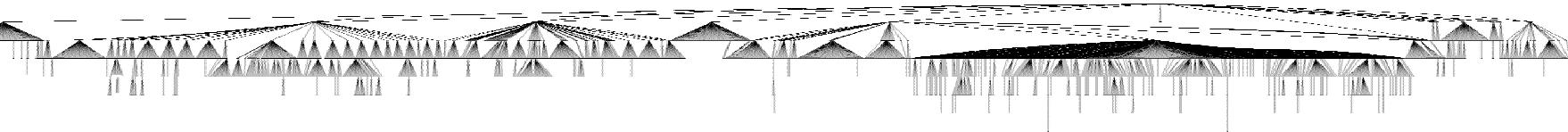
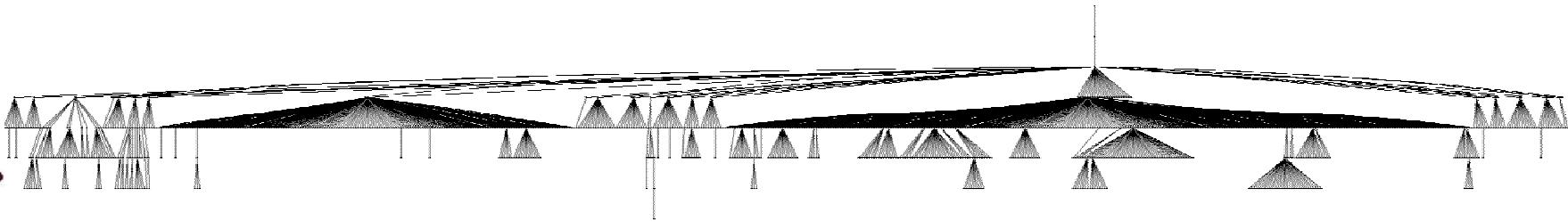
The Moscone Center
San Francisco, CAjava.sun.com/javaone

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Linux v FreeBSD v Solaris v Windows





	FreeBSD	Linux	Solaris	WRK
File Organization				
Length of C files			-	-
Length of header files	+		-	-
Defined global functions in C files		-	-	-
Defined structures in header files				-
Files per directory	-			
Header files per C source file				
Average structure complexity in files	-		+	
Code Structure				
Extended cyclomatic complexity		+		-
Statements per function		+		
Halstead complexity		+		-
Common coupling at file scope		-		
Common coupling at global scope		+		
% global functions		+		-
% strictly structured functions	-			
% labeled statements	-			+
Average number of parameters to functions				
Average depth of maximum nesting			-	-
Tokens per statement				
% of tokens in replicated code	-	-	+	
Average structure complexity in functions	+	-		

	FreeBSD	Linux	Solaris	WRK
Code Style				
Length of global identifiers				+
Length of aggregate identifiers				+
% style conforming lines			+	-
% style conforming typedef identifiers	-	-		+
% style conforming aggregate tags	-	-	-	+
Characters per line				
% of numeric constants in operands	-		+	+
% unsafe function-like macros			-	
Comment density in C files	-			+
Comment density in header files	-			+
% misspelled comment words				+
% unique misspelled comment words				+
Preprocessing				
Preprocessing expansion in functions	-		+	
Preprocessing expansion in files				+
% of preprocessor directives in header files	-		-	+
% of non-#include directives in C files	-		+	
% of preprocessor directives in functions	-		+	
% of preprocessor conditionals in functions	-	+	+	
% of function-like macros in defined functions	+			-
% of macros in unique identifiers	-		+	+
% of macros in identifiers	-		+	
Data Organization				
Average level of namespace pollution in C files	+			-
% of variable declarations with global scope			+	
% of variable operands with global scope	-	+		
% of identifiers with wrongly global scope		+		
% of variable declarations with file scope	+			-
% of variable operands with file scope		+		-
Variables per typedef or aggregate	-			+
Data elements per aggregate or enumeration	-			+

Wählen Sie zwischen
Reisekoffer oder
Koffer



product + process

SQOÂOSS

<http://www.sqo-oss.eu>
<http://www.dmst.aueb.gr/dds>

