

Status Update

- FOSS Evaluation System in Fujitsu-

Jun 1, 2017

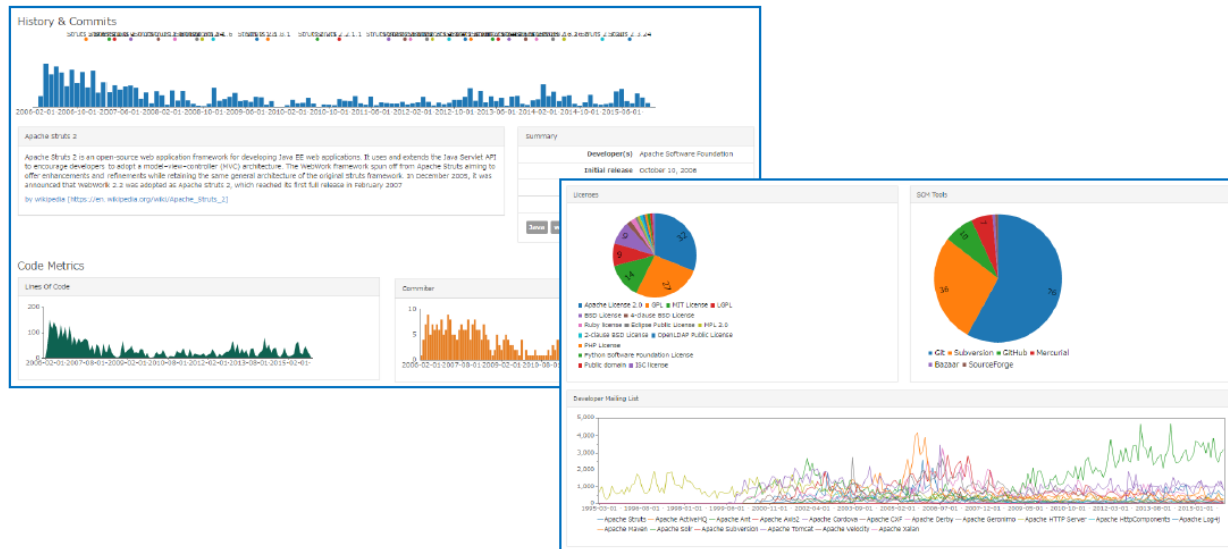
■ Status update of the FOSS Evaluation System in Fujitsu (introduced in the WG3 meeting on July, 2016)

Overview



■ FOSS Evaluation Report Management System

- For Fujitsu, Ltd and some group companies.
- 493 software are registered now.
- Automatically update software information.



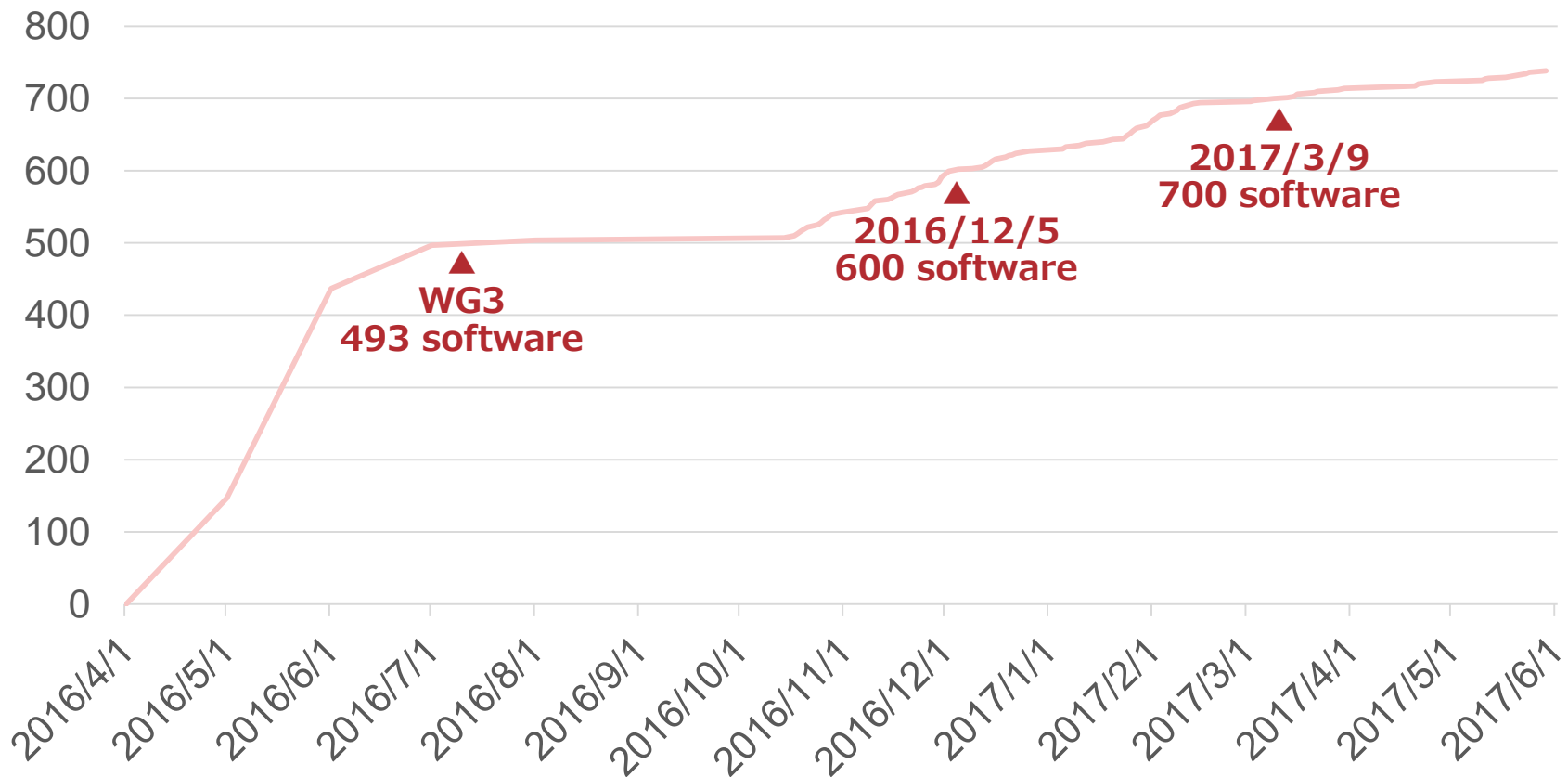
Number of registered software

■ 493 (July, 2016) → 739 (June, 2017)

■ OSS powered by Fujitsu (ex. Open Service Catalog Manager)

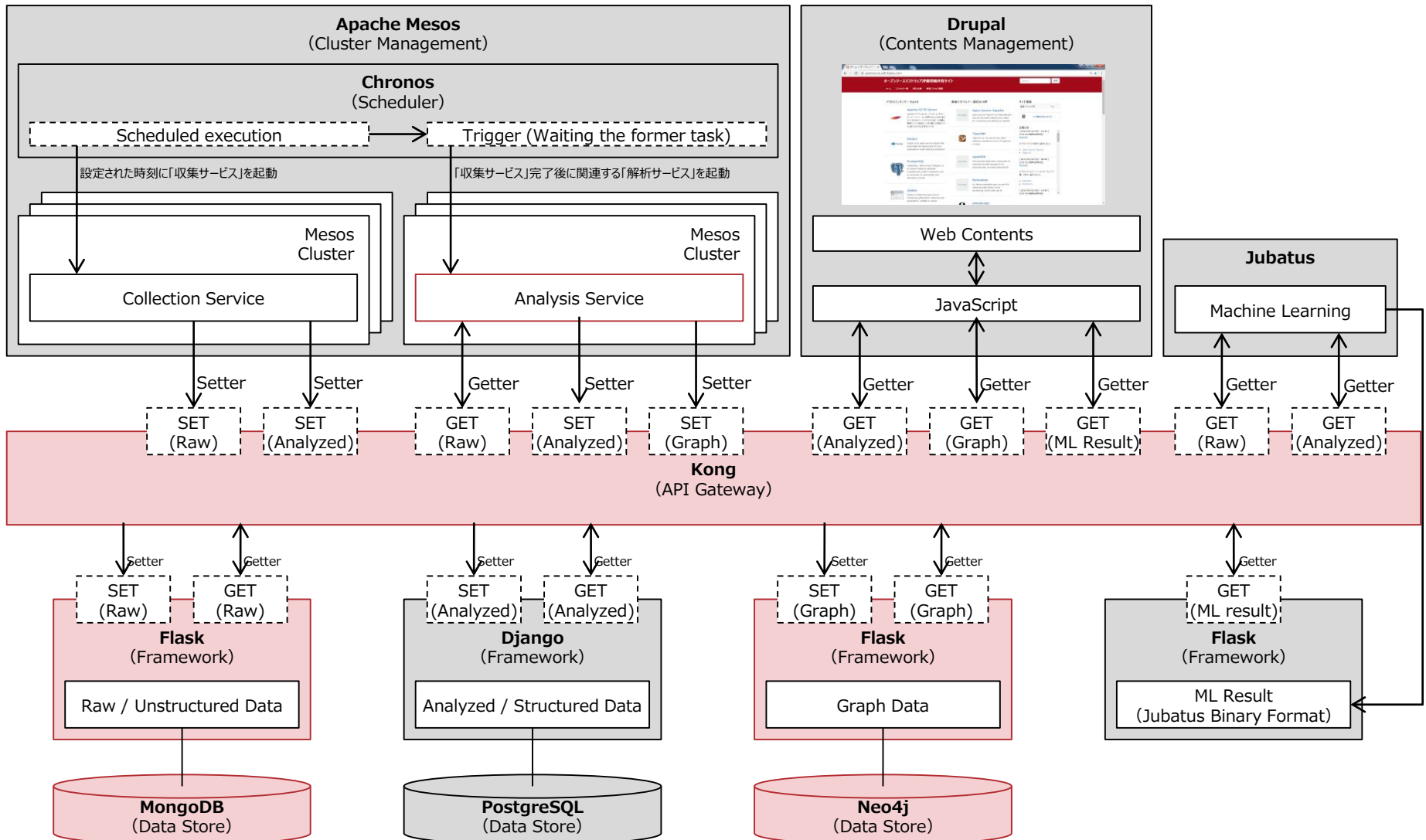
■ Trend software (ex. Mastodon, Tensorflow, etc.)

Number of registered software



Architecture (updated)

■ Add data store (MongoDB, Neo4j) and API Gateway (Kong)



■ Description and Summary page

■ Data from Website (Wikipedia / GitHub / SlideShare / etc...)



PostgreSQL

データベース

PostgreSQL とは

PostgreSQL, often simply Postgres, is an object-relational database management system (ORDBMS) with an emphasis on extensibility and standards-compliance. As a database server, its primary function is to store data securely, and to allow for retrieval at the request of other software applications. It can handle workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users. PostgreSQL is developed by the PostgreSQL Global Development Group, a diverse group of many companies and individual contributors. It is free and open-source software, released under the terms of the PostgreSQL License, a permissive free-software license.

開発状況

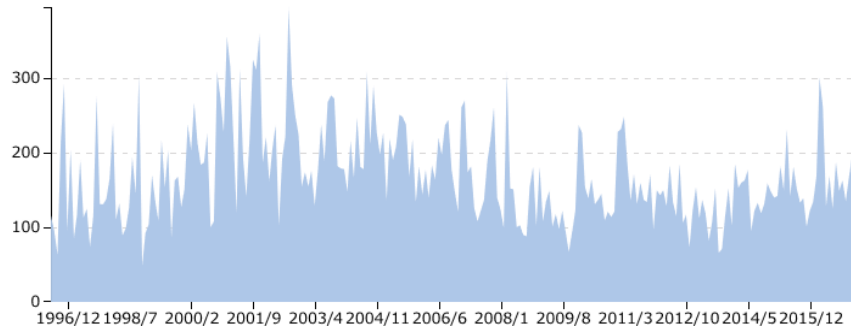
コミュニティ

バグ/課題

人気度

脆弱性

コミット数



コミッター数

1

サマリ

公式サイト <https://www.postgresql.org>

ライセンス PostgreSQL License

開発者 PostgreSQL Global Development Group

開発言語 C

初版 July8, 199620 years ago(1996-07-08)1

最新安定版 9.6.3 / May11, 20171
4 days ago(2017-05-11)2

類似ソフトウェア

- phpPgAdmin
- TYPO3
- Atom
- OpenLDAP
- Samba
- FreeBSD
- Signal
- Hibernate
- Cygwin

関連キーワード

psql pg libpq
bigm postgres
SQLite MariaDB
Postgres MySQL

- Register software (Specify the URL of data source)
 - Wikipedia / GitHub / Bug Tracker / Mailing List / CVE Details

オープンソースソフトウェア評価情報共有サイト

Search検索

ホームソフトウェア一覧統計／比較ソフトウェア登録／更新

ソフトウェア登録／更新

登録申請後すぐには情報は登録されませんのでご注意ください。
ソフトウェア名称は必須項目となります。
ソフトウェア更新は対象のソフトウェア名称を入力後、参照ボタンよりソフトウェア情報を取得してください。

基本情報

ソフトウェア名称 *

参照

Wikipedia

英語版 URL

日本語版 URL

ソースコード管理システム

リポジトリURL

バグ/課題管理システム

バグ管理ページ URL

開発者メーリングリスト

利用者MLアーカイブURL

開発者MLアーカイブURL

CVE Details

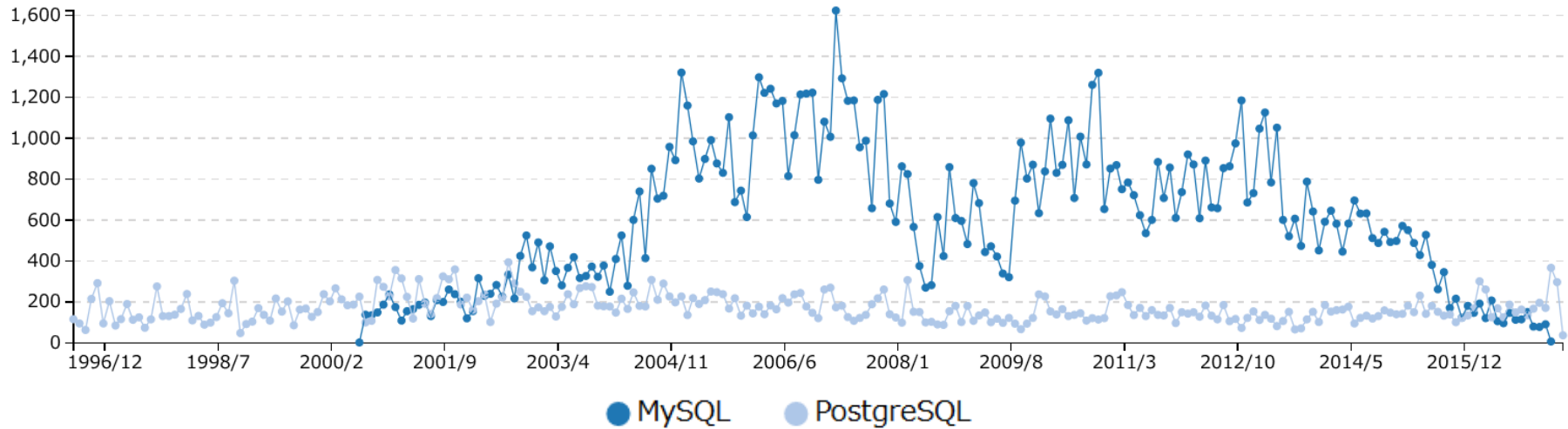
プロダクトID

登録する

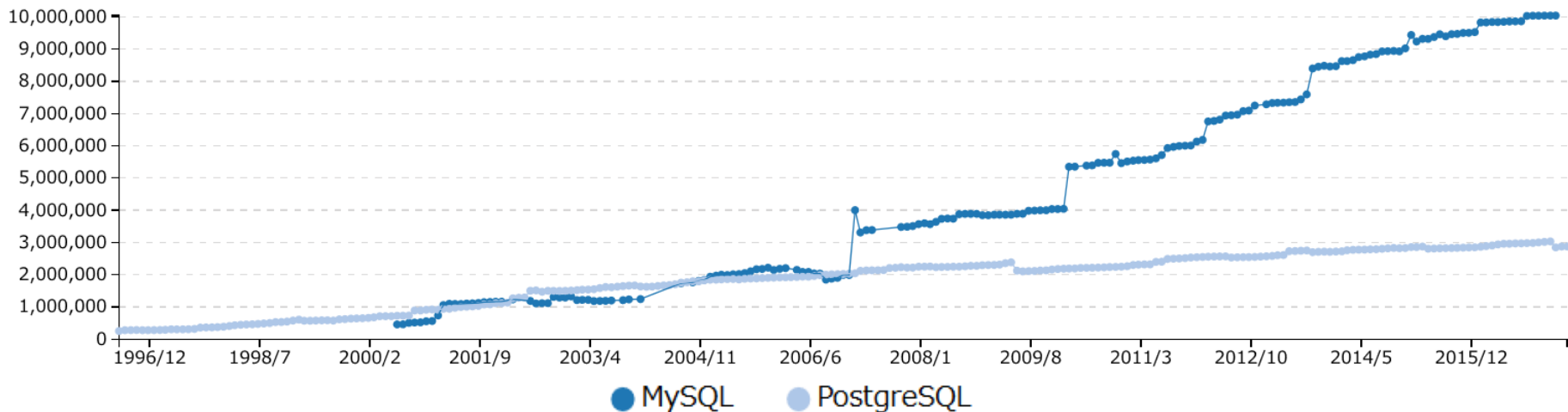
Updated Features

■ Compare software with collected data

■ Ex1: Number of commits



■ Ex2: Lines of code



■ Attach Documents

■ Using Alfresco (OSS : Contents Management System)

Docker



Docker とは

Docker is an open-source project that automates the deployment of Linux applications inside software containers.

Quote of features from Docker web pages:

Docker containers wrap up a piece of software in a complete filesystem that contains everything it needs to run: code, runtime, system tools, system libraries – anything you can install on a server. This guarantees that it will always run the same, regardless of the environment it is running in.

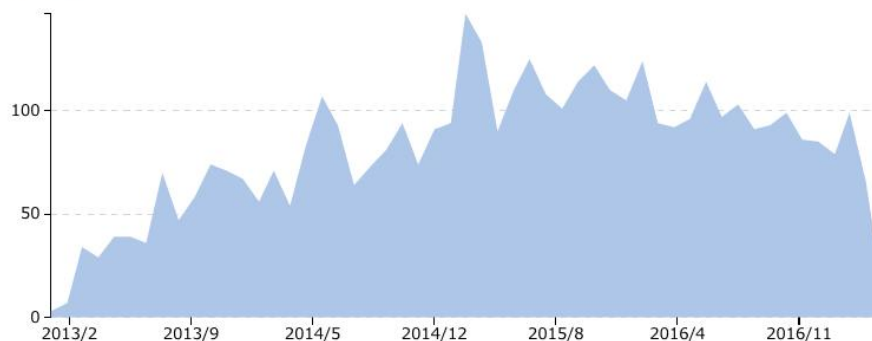
Docker provides an additional layer of abstraction and automation of operating-system-level virtualization on Linux.

Docker uses the resource isolation features of the Linux kernel such as cgroups and kernel namespaces, and a union-capable file system such as aufs and others to allow independent "containers" to run within a single Linux instance, avoiding the overhead of starting and maintaining virtual machines.

サマリ

公式サイト	https://www.docker.com/
ライセンス	Apache License 2.0
開発者	Docker, Inc.
開発言語	Go
初版	13March 2013 4 years ago(2013-03-13)

コミッター数



関連資料



コンテナ型仮想化技術 Docker (ドッカー) .pptx
作成者 : noyama@jp.fujitsu.com
更新日 : 2016/11/07

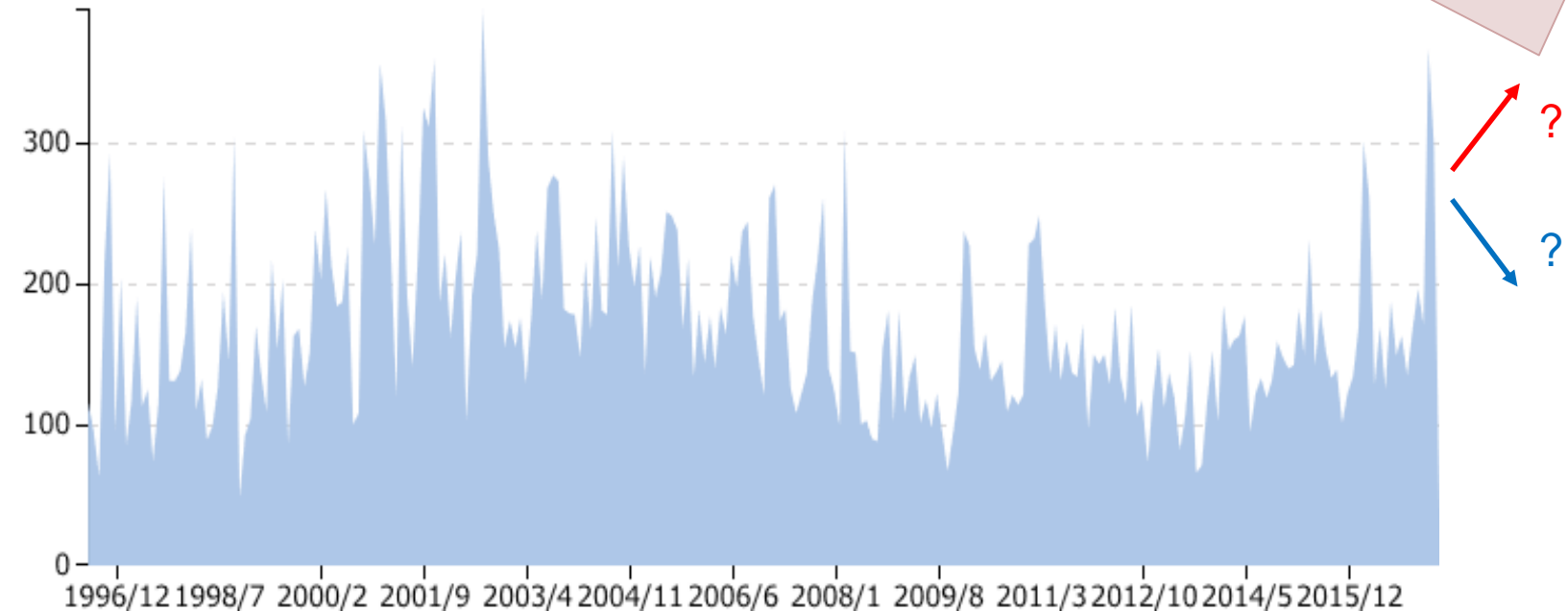
■ Machine Learning + Web API

■ Predict the tendency of time series data (Positive/Negative)

- Number of commits
- Number of committers
- Lines of code

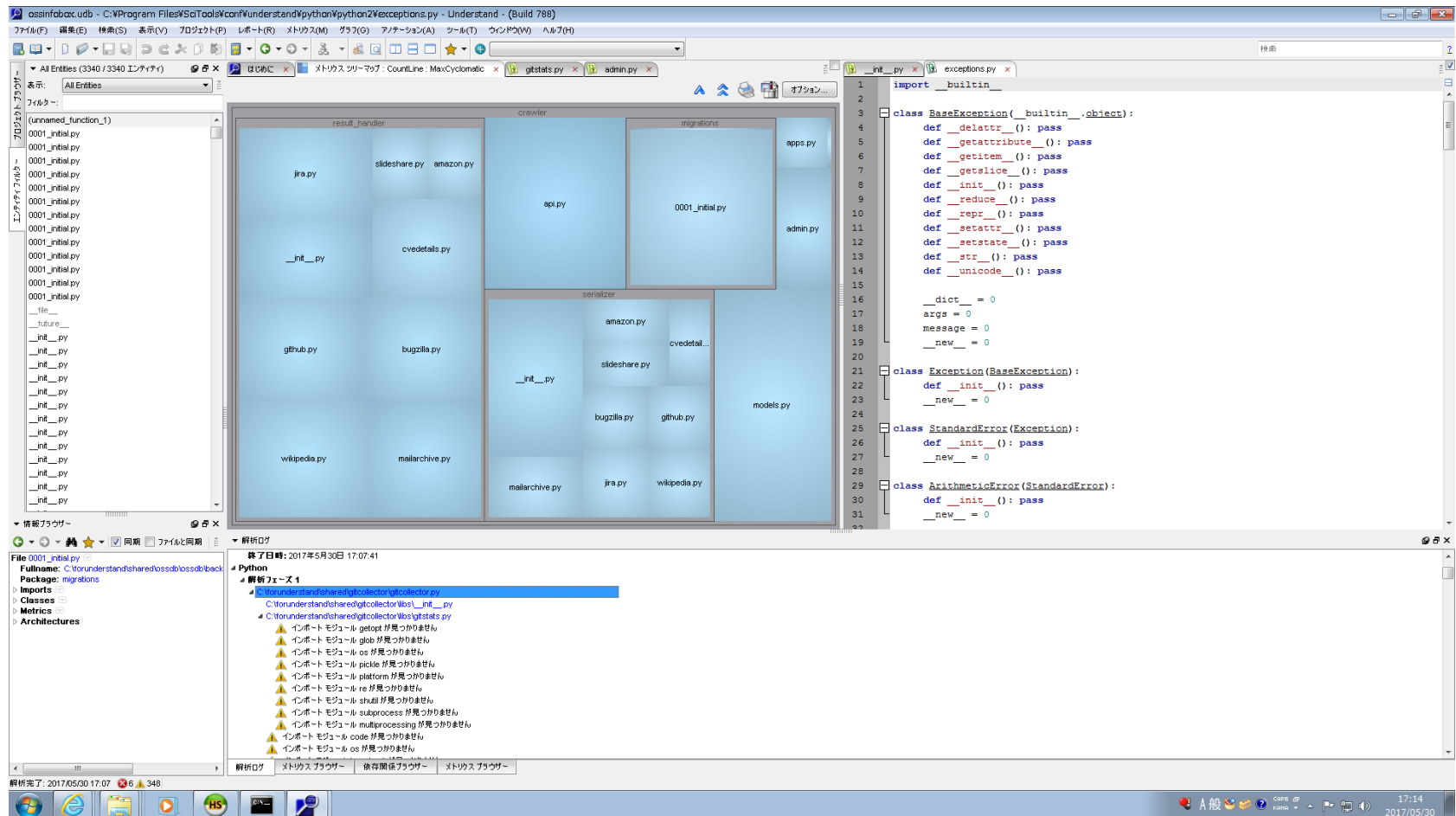
■ Get the results via REST API

■ Ex: number of commits in PostgreSQL



■ Software metrics analysis (using Understand)

- Test coverage
- Cyclomatic Complexity etc...

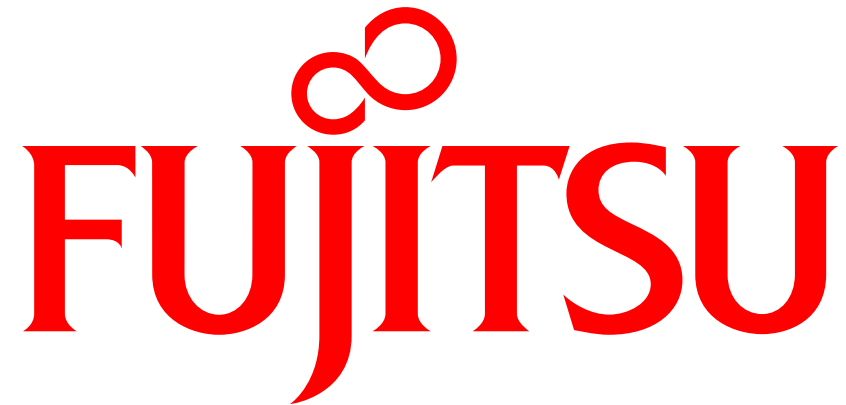


■ Updated features

- Refine Architecture and UI
- Compare Software
- Attach Documents
- Machine Learning + Web API

■ Future work

- Software Metrics Analysis
 - Test coverage
 - Cyclomatic complexity etc ...
- Data Analyze
 - Categorize software (using Machine Learning)
- Quality Analysis
 - Bug fix prediction (using Bug Tracker Data / Machine Learning)



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