
FLOSSInclude y FLOSSMETRICS

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FLOSSMetrics: base ideas

- There are a lot of opinions about libre software development, but little known facts
- Libre software is specially interesting to study: public data, reproducibility, validation of results, large samples
- Interest by volunteers and companies
- Can libre software development be improved?
- Can software engineering learn from libre software?

<http://flossmetrics.org>

FLOSSMETRICS goals

- Retrieval of data from (thousands of) libre software projects
- Analysis about actors, artefacts and processes involved in development
- Higher level studies: software evolution, human resources, effort estimation, productivity, quality, etc.
- Database available to other researchers
- Focus on dissemination to SMEs and industry in general
- Involvement with the libre software community

<http://flossmetrics.org>

Main results

- Huge database with factual details about libre software development
- Higher level analysis and studies
- Sustainable platform for benchmarking and analysis
- Targeted reports (SMEs, industry, etc.)
- Focus on providing data and information that others can use for research, evaluation, follow-up

<http://flossmetrics.org>

Partners

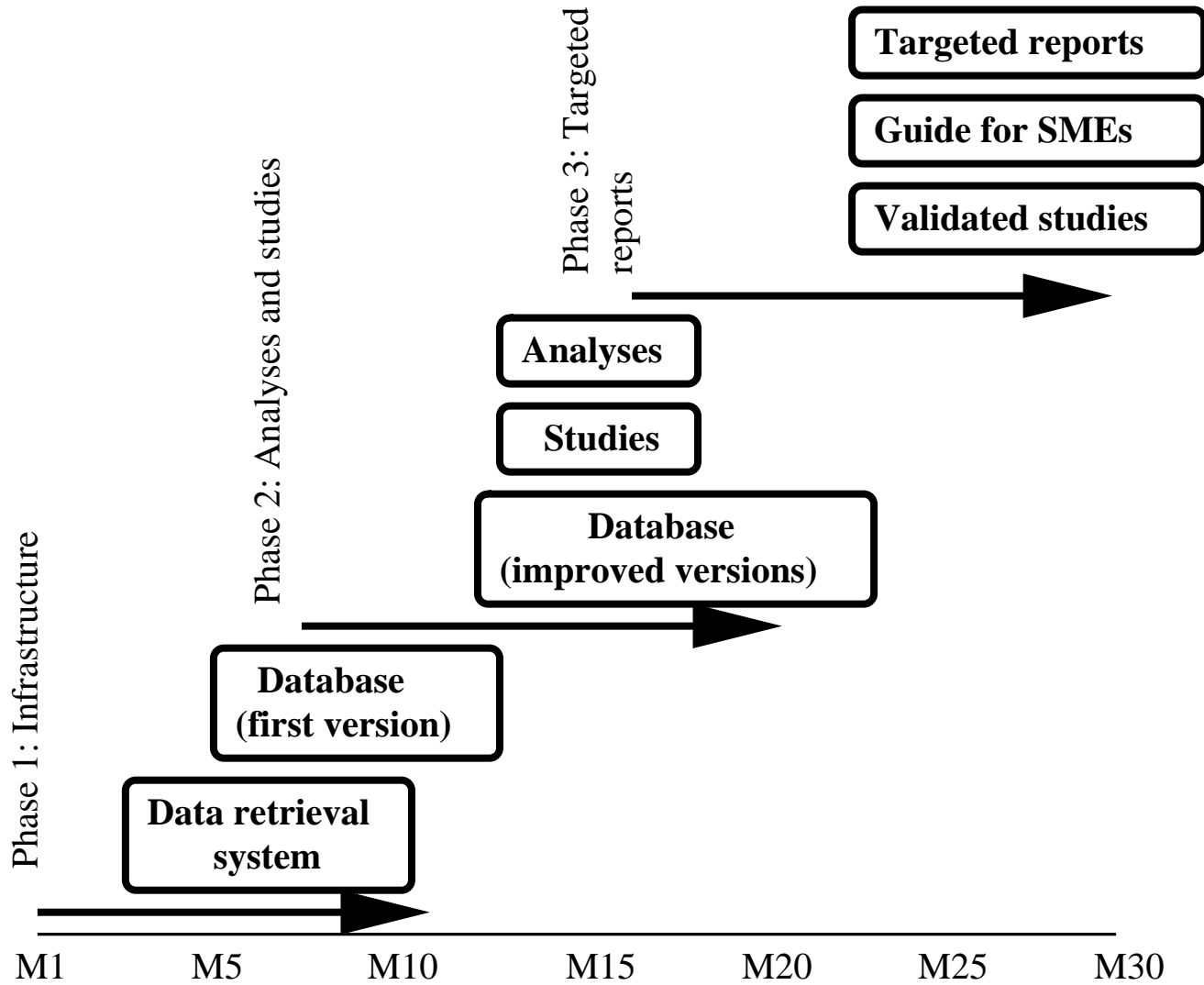
- Universidad Rey Juan Carlos (ES)
- University of Maastricht (NL)
- Wirtsshaftuniversitaet Wien (AT)
- Aristotle Univeristy of Thessaloniki (GR)
- Conecta s.r.l (IT)
- ZEA Partners (BE)
- Philips Medical Systems (NL)

<http://flossmetrics.org>

Datasheet

- Duration: Sep. 2006 - Feb. 2009
- Budget: 585,000 euros
- Artifacts to be analyzed:
 - Projects: more than 5,000
 - Lines of code: hundreds of millions
 - Mail messages: tens of millions
 - Bug reports: tens of millions

<http://flossmetrics.org>



Interested?

- Detailed description of work available from the website
- Keep an eye on the website, beta version of the system already available (CVSAnalY, MLStats, SLOCCount analysis)
- Tell us about your pet project, we can analyze it
- Provide feedback about your interests, needs

`http://data.flossmetrics.org`

FLOSSInclude: base ideas

- Libre software potentially providing benefits to developing countries:
 - Low adoption cost
 - High adaptability
 - High quality training environment
 - Good opportunities for technology transfer
- But we lack information about how to foster these benefits
- The project tries to understand the current situation, and looks for ways of improving it
- Building on top of the results of FLOSSWorld

<http://flossinclude.eu>

FLOSSInclude: main goals

- Target regions: Africa, Asia and Latin America
- Understanding of situation and needs of libre software in those regions
- Federation of local and regional initiatives
- Roadmap for future EU research cooperation

FLOSSInclude: core tasks

- Analysis of available data to identify problems and blockers
- Networking and dissemination of local and regional initiatives
- Requirement analysis to identify the environment that would foster libre software deployment and development
- Validation and pilots (to test benefits of libre software)
- Cooperation roadmap

FLOSSInclude: partners (1)

- University of Maastricht - MERIT (NL)
- Universidad Rey Juan Carlos (ES)
- FUNDECYT (ES)
- Canonical Ltd. (UK)

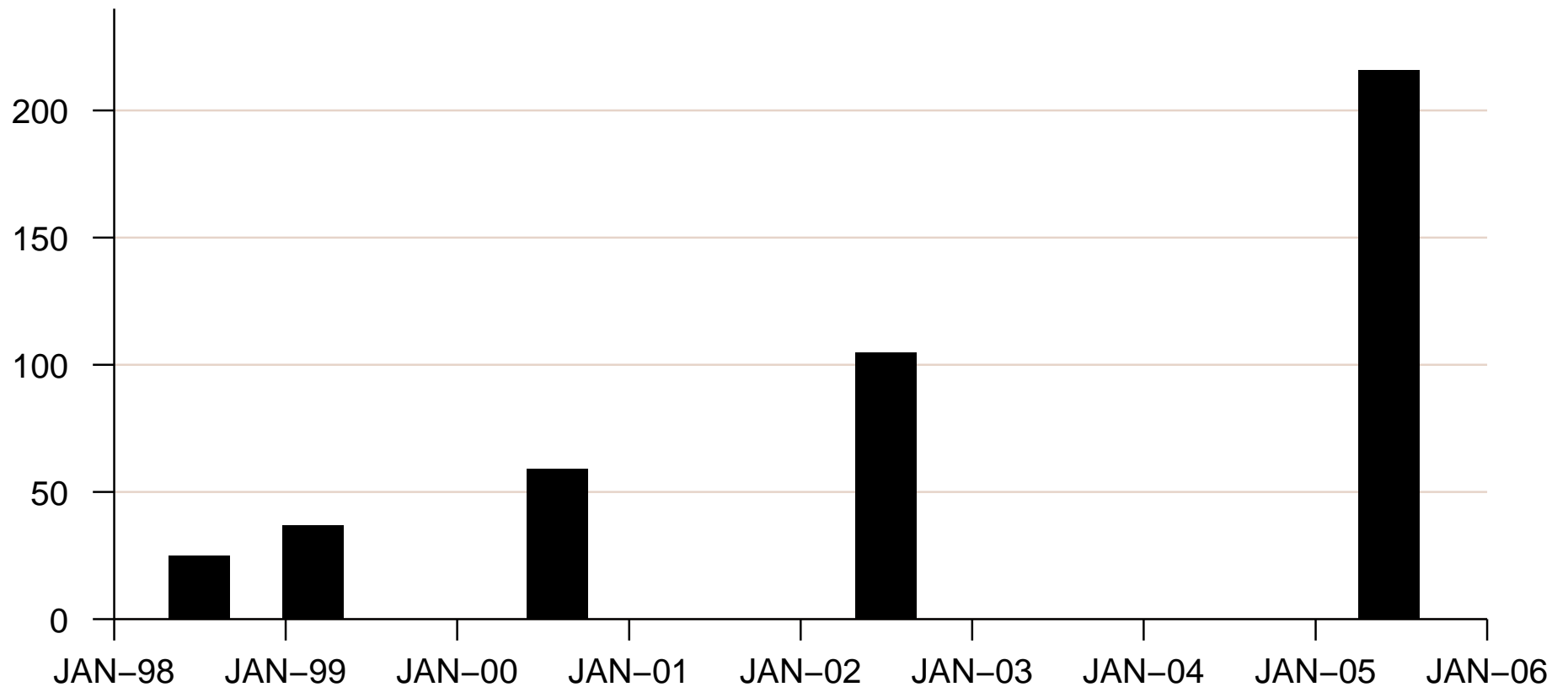
FLOSSInclude: partners (2)

- Fundación Vía Libre (Argentina)
- University of the Western Cape (South Africa)
- Kofi Annan Centre of Excellence in ICT (Ghana)
- IT for Change (India)
- Centre for the Study of Developing Societies (India)
- Open Institute (Cambodia)
- Tsinghua Univ. - CERNET (China)

Interested?

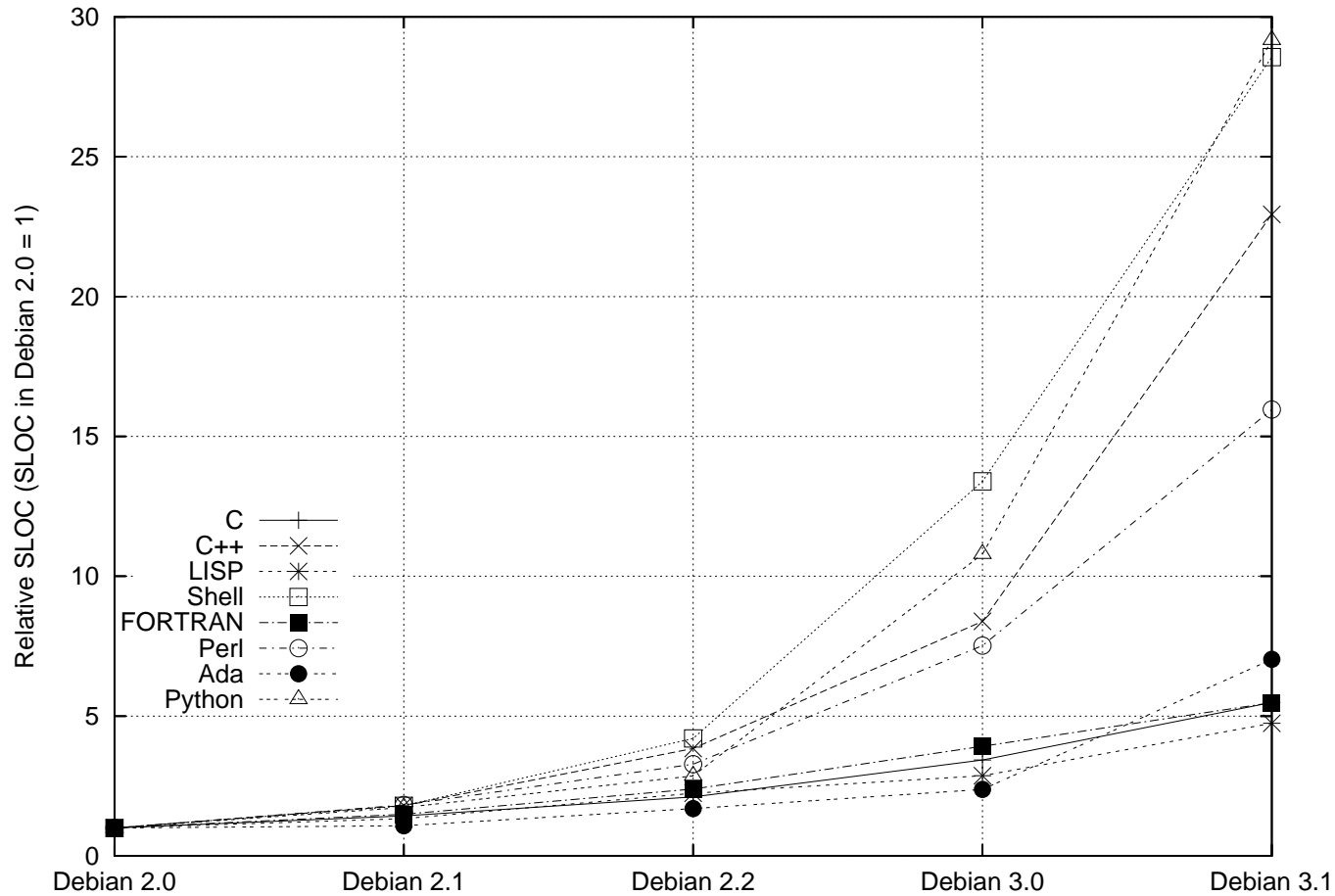
- FLOSSWorld already produced a lot of information in this area
- Have a look at the website in the following months
- Any idea or comment is welcome!

Some examples (work in progress)



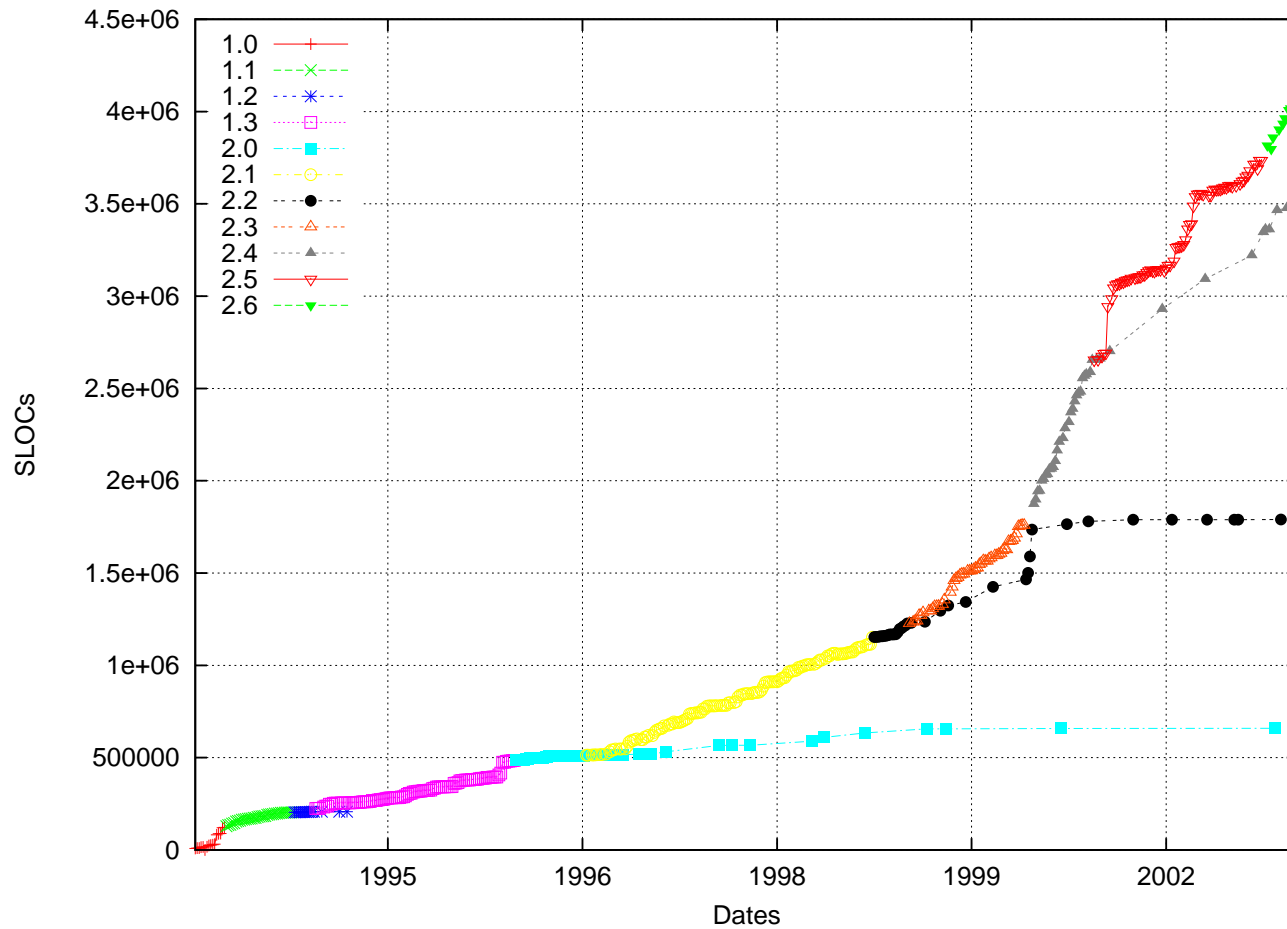
Source code in Debian (MSLOC)

Some examples (work in progress)



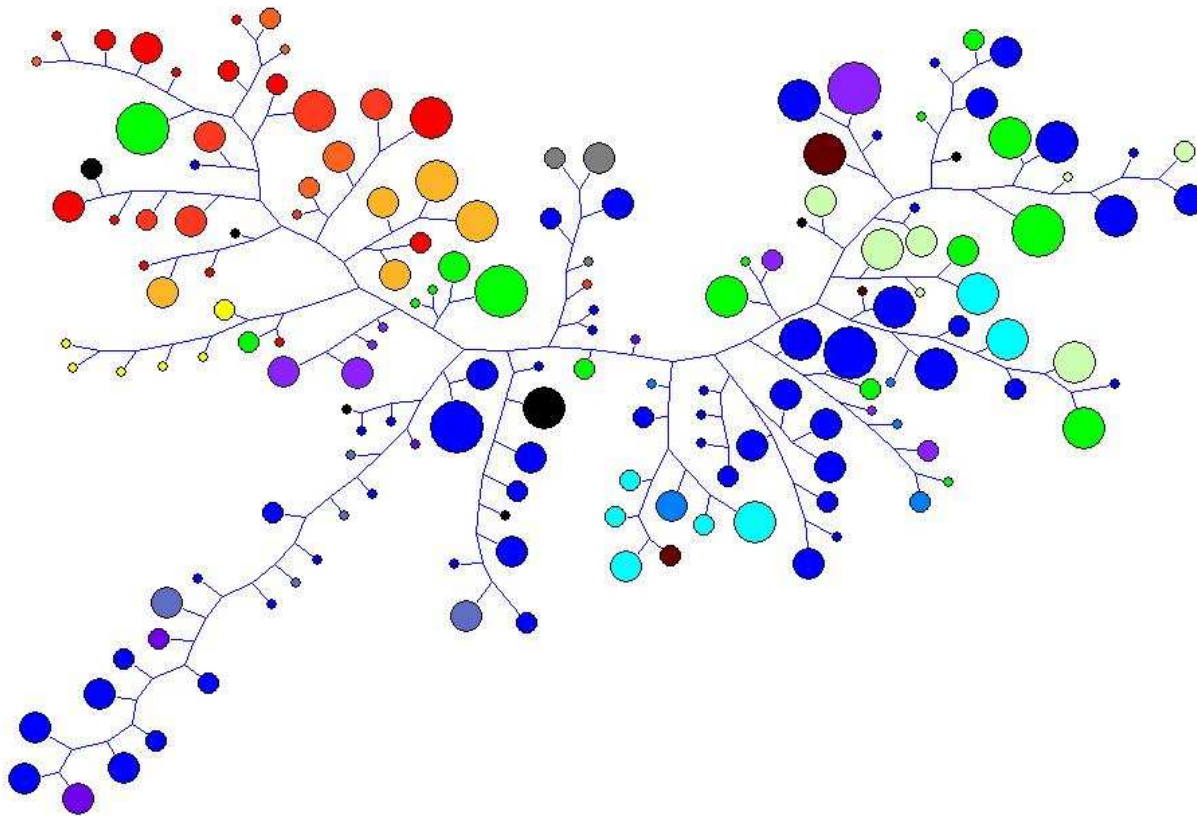
Languages in Debian (relative)

Some examples (work in progress)



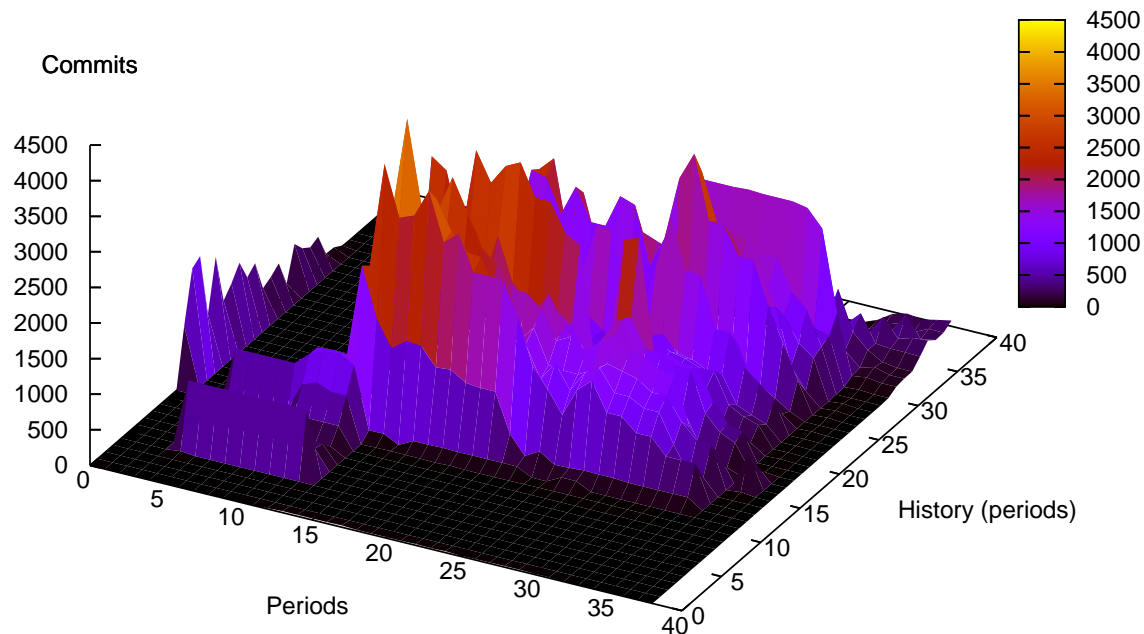
Growth of the Linux kernel

Some examples (work in progress)



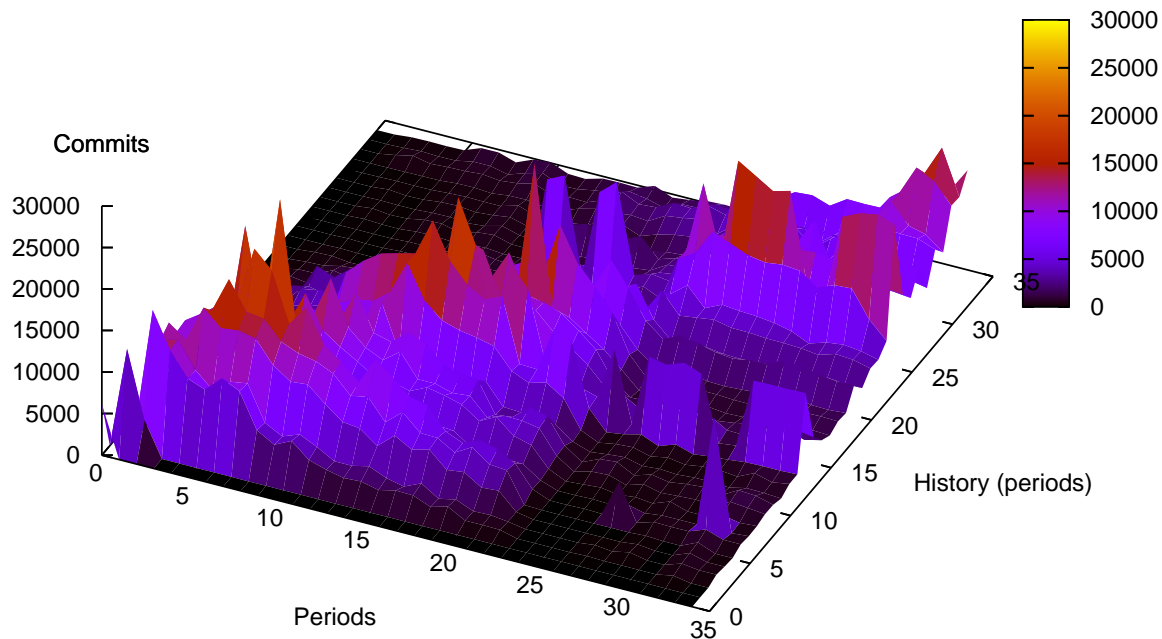
Communities in the Apache project (circa 2004)

Some examples (work in progress)



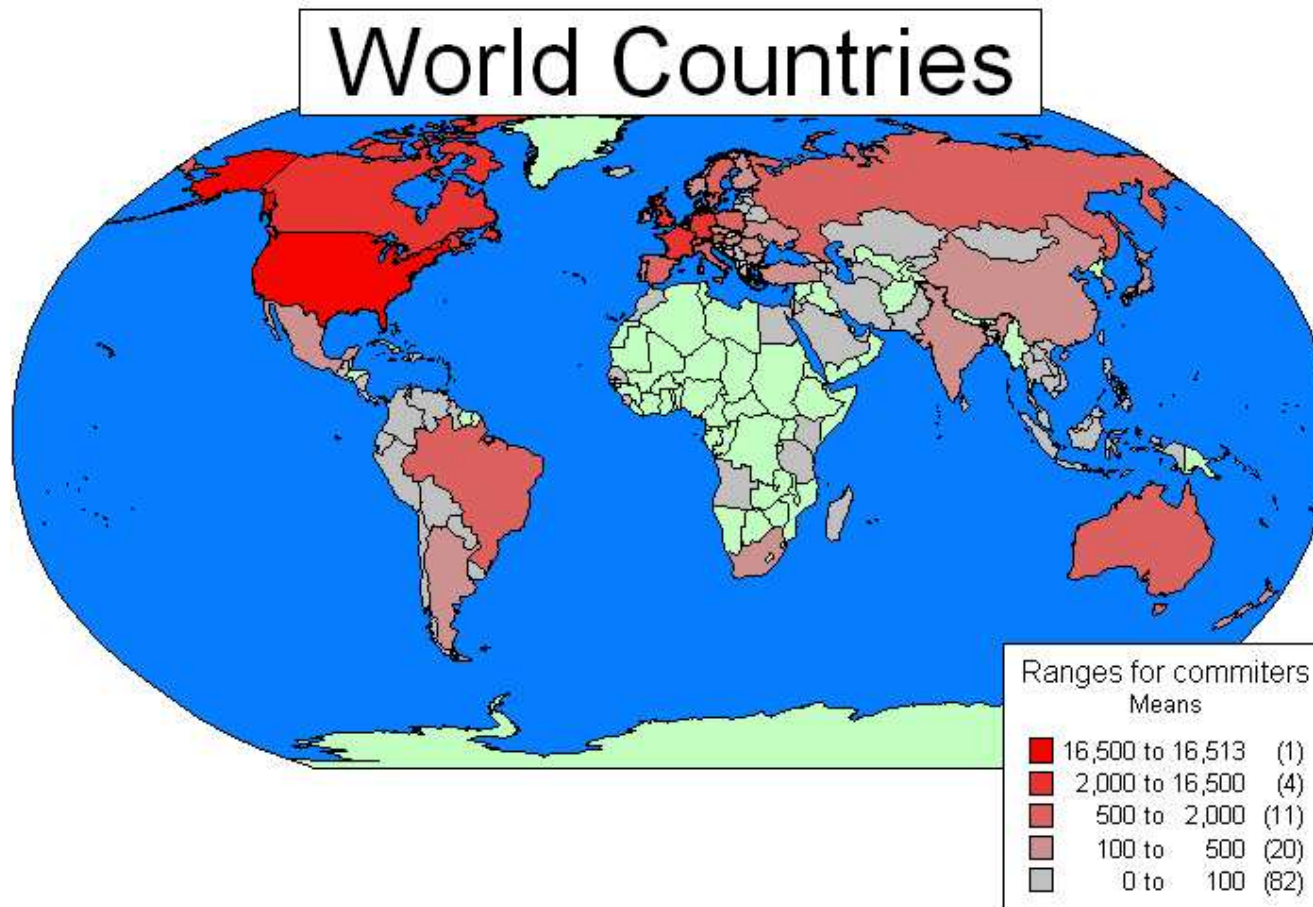
Activity of core teams over time (Evolution)

Some examples (work in progress)



Activity of core teams over time (Mozilla)

Some examples (work in progress)



SourceForge developers with activity in CVS (LibreSoft/MERIT 2006)