Infrastructure for Open Source Development

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Introduction
OpenAFS

- 802,400 lines of code
- Over 200 contributors
- 6,858 commits on the mainline
- 30 branches
Years of CVS
Reasons for Migration
Reasons for Migration
Choice of VCS

Mercurial

Subversion

Git
Translation

No entry for heavy goods vehicles.
Residential site only

Nid wyf yn y swyddfa ar hyn o bryd. Anfonwch unrhyw waith i'w gyfieithu.

Por favor, tiren los papeles a la papelera por motivos de Atasco

Please throw the papers to the frounds of jam

Liberare rapidamente lo sgancio
Liberate this area quickly
Liberer rapidemente l'arrivée
Complications: History

“Those who cannot remember the past are condemned to repeat it”

George Santayana
Complications: Reassembling the pieces

photo: Hussain Isa on flickr
Reassembling the pieces
Reassembling the pieces
Complications : Branches
Branches and Tags

Version 1

A
B
C
D
E
F
G
H
I

Version 2

3
4
3
1
2
3
4
Branches and Tags

Version 1

A 1
B 1 2
C 1
D 1
E 1 2
F 1 2
G 1
H 1
I 1

Version 2

2
3
1
2
3
1
2
3
4
Complications: Time travel
A solution
“The perfect is the enemy of the good”
Voltaire
Code review
Timing is all
Code Review

Composition in Red, Blue and Yellow  Piet Mondrian  photo: watz on flickr

Schröderhouse  Gerrit Rietveld  photo: on1stsite on flickr
### Code Review Dashboard for Simon Wilkinson

#### Started by Simon Wilkinson

<table>
<thead>
<tr>
<th>ID</th>
<th>Subject</th>
<th>Owner</th>
<th>Project</th>
<th>Branch</th>
<th>Updated</th>
<th>V</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>I012e587b</td>
<td>Unix CM: Conflate rxf_[store,fetch]Variables</td>
<td>Simon Wilkinson</td>
<td>openafs</td>
<td>master</td>
<td>Feb 2</td>
<td>✓</td>
<td>-1</td>
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<td>I9cc2671f</td>
<td>Unix CM: Include memcache's lv in rxf_context</td>
<td>Simon Wilkinson</td>
<td>openafs</td>
<td>master</td>
<td>Jan 20</td>
<td>-</td>
<td>-1</td>
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<tr>
<td>I53f4539e</td>
<td>XDR: Stop the madness</td>
<td>Simon Wilkinson</td>
<td>openafs</td>
<td>master</td>
<td>Feb 18</td>
<td>+</td>
<td>1</td>
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<tr>
<td>Ic1e5c74e</td>
<td>More warnings cleanup</td>
<td>Simon Wilkinson</td>
<td>openafs</td>
<td>master</td>
<td>Feb 24</td>
<td>✗</td>
<td>-1</td>
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#### Reviewable by Simon Wilkinson

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<th>V</th>
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<tbody>
<tr>
<td>I96c1fd36</td>
<td>preparing rxos integration: change in AFSFetchStatus</td>
<td>Hartmut Reuter</td>
<td>openafs</td>
<td>master</td>
<td>Jul 24, 2009</td>
<td>-1</td>
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<td>I3ee1ea82</td>
<td>Fix bosserver directory creation</td>
<td>Michael Meffie</td>
<td>openafs</td>
<td>master</td>
<td>Jul 29, 2009</td>
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<td>I46d5af6f</td>
<td>KSSL by Marcus Watts</td>
<td>Matt Benjamin</td>
<td>openafs</td>
<td>master</td>
<td>Aug 29, 2009</td>
<td></td>
</tr>
<tr>
<td>I37b6170d</td>
<td>make knote fsevents hinting</td>
<td>Derrick Brashear</td>
<td>openafs</td>
<td>master</td>
<td>Jan 14</td>
<td></td>
</tr>
<tr>
<td>I3d5a5d73</td>
<td>return an error from afs_readaddr when out of buffers</td>
<td>Andrew Deason</td>
<td>openafs</td>
<td>master</td>
<td>Nov 29</td>
<td></td>
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<tr>
<td>I59b0252</td>
<td>linux mmap anti-deadlock shouldn't break StoreAllSegments</td>
<td>Derrick Brashear</td>
<td>openafs</td>
<td>master</td>
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<td>Ic5dc6eef</td>
<td>runningCalls: VOL_COUNT_LOCK vs VTRANS_LOCK</td>
<td>Dan Hyde</td>
<td>openafs</td>
<td>master</td>
<td>Feb 3</td>
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<td>Iaf5896f3</td>
<td>basic kernel event system for afs cm</td>
<td>Derrick Brashear</td>
<td>openafs</td>
<td>master</td>
<td>Feb 3</td>
<td></td>
</tr>
</tbody>
</table>

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**Gerrit**
Testing and Verification
Bug Tracking
Lies, damn lies and statistics

Commits per month, November 2000 to February 2010
Bringing it home
Projects

LCFG
Large Scale UNIX Configuration System

Prometheus
Differences
Questions

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