

OpenAFS Status

Nothing to see here. Move along.

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The OpenAFS project
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We're 6 and a half

- **Windows XP port has been greatly improved.**
- **We had Vista support on day 1.**
- **MacOS 10.5 client nearly done. I just need some peace.**
- **The documentation is finally modernized!**

Linux

- **We do have non-group-based PAGs on Linux, and use a single large group when we do use one**
- **Integrated with Linux locking model**
- **Continued syscall fun, especially s390x**

Clients

- **Locking**
 - **Client tracks locking thread rather than just pid so we dont leak locks**
- **Fixes to single-interface clients to actually time out vlserver**
- **Largefile support on MacOS 10.4**

Servers

- **Improved support for behind-NAT file servers**
- **Deal better with very old (AFS 3.4) clients**
- **vldb repair tool**
- **Issues with Solaris stdio**

Servers ...

- **Eliminate global prucient in the fileserver**
- **Only annoying on congested server networks, but...**
- **NAMEI salvager improvements**
- **NAMEI volserver improvements**

Oh yeah

- and we killed `ubik_Call`

It does stuff.

- **A Kerberos 5 solution.**
- **Kerberos 5 tools integrated, some polishing needed.**

Miles to go

- **2 security advisories. (We did address them)**
- **Cache manager not authenticated.**
- **Byte-range locking not ready.**
 - **But Matt Benjamin is working on it.**
- **Many ports could be changed to work better with modern VFS layers.**

Advisories

- **Setuid attack**
 - **More issues**
 - **More to do**
- **Windows AFSlogon**

Fundamentals.

- **IPv6 (no work in progress now)**
- **TCP (currently on hold until others bite)**
- **And then there is the security class work**

We had a hackathon

it was cold there

- rxk5 merged
- rxgk work
 - but it's not done yet

Seriously. We aren't there.

- **rxk5 isn't polished**
- **rxk5 lacks support for many OSes**
- **rxgk isn't done yet**
 - **unless Love finished it last night instead of sleeping**
 - **and even then it would need work**

Security is unity

- **Better Active Directory integration?
(Windows 2003 ktpass hates you)**
- **MacOS, Linuxes ship MIT krb5**
- **Older Solaris Kerberos API isn't public.**

Why the _{poor} model we have

- **Limited developer time available.**
 - Busy doing support.
- **1.5 is Windows focus release**
 - **But we need time and resources to stabilize Unix support.**

Not all the pain is my fault

- Reproducing and resolving issues is sometimes a problem due to lack of developers.
- Some hardware would be cool, too.
- Some of this could be solved by OpenAFS, Inc. But USENIX takes donations.
- Developers still hard to find. AFS is a rare skill. If you have it, people will hire you.

Nagging issues

- **The backup suite we ship is still awful. Buy something.**
- **Good admin suite not included. Sadly, nothing to buy.**
- **Are you still running the kaserver? Could you stop? Thanks.**

Future expectations

- **Resolve fileserv issues in 1.5**
- **Test fast server restart/online salvage**
- **Split cache by volume type support exists, just needs more testing**

What else ?

- **Protection Server work**
 - **AFS ID aliases**
- **Capabilities RPCs for all services**
- **Lock upgrading/downgrading**

And ?

- **Windows**
- **Installable Filesystem**
 - Nothing further from Eric Williams
- **Removal of submounts**

And ?...

- **Fileserver**
 - **Mandatory locks**
 - **Unicode paths**
 - **Multiple data streams**

Great Expectations

- **Disconnected work is finally moving**
 - **Its been in the tree for quite some time but Simon somehow had free time.**
- **And then, instrumentation**

I'm a broken record

- **Fileserver optimization: host failover, performance optimization.**
- **Client improvements for clustering environments but what?**
- **Optimization for laptops (disconnected, power management, network) ... but Windows has most of it.**

And if somehow we get bored

- long volume names.
- volserver enhancements (want large partitions?)
- ptserver LDAP proxy?
- Multiprotocol file service?
(NFSv4? CIFS? WebDAV?)

**Hello, my name is Derrick and Im a
workaholic (or, why we're not bored)**

- **And then there's support**
 - **Day to day Linux issues are fewer, but we have a handful of bugs to look at.**
 - **A few Solaris issues as we track OpenSolaris progress**
 - **Fewer MacOS issues, but there's one infrequent nagging halt-time issue**

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May 9, 2007

Tomorrow's my birthday.

If your cell phone went off, you owe me a beer.