

Wine 1.0

LugRadio Live '08

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Wine 1.0 Release Manager

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Disclaimer

Although I work at Google,
these are my personal views, and may
not represent the views of my
employer.

State of Desktop Linux

Userland development healthy

- Firefox 3
- OpenOffice 2.4
- Scribus
- Inkscape
- Eclipse

Kernel development healthy

- 483 developers contributed to 2.6.11
- 1057 contributed to 2.6.24

State of Desktop Linux

Preloaded by many PC vendors

- Asus
- Dell
- HP
- Lenovo
- OLPC

State of Desktop Linux

Large migration projects underway:

- Munich, Germany (14000 seats)
- Tamil Nadu, India (30000 seats)
- Kerala, India (40000 seats)
- Extremadura, Spain (90000 seats)
- France (Police) (70000 seats)
- Russia (schools, post office)
- ...

State of Desktop Linux

BUT: market share still tiny!

	5/2007	3/2008
hitslink.com	0.4	0.6
ranking.pl	0.7	0.7
w3counter.com	1.3	2.0

State of Desktop Linux

Why is market share so small?

Known problems:

- Microsoft Integration
- Drivers / Codecs
- Laptop Suspend
- Dell, HP, Lenovo don't advertise Linux
- Commercial Applications

State of Desktop Linux

Top-requested commercial apps:

- Microsoft Office
- Adobe Photoshop
- Autocad
- iTunes

All have Linux substitutes...

... not close enough for some users

State of Desktop Linux

Adobe's position on Linux port of Photoshop:

“The question is, and always has been, whether Adobe could achieve meaningful revenue growth by offering a third version of Photoshop. Would porting to Linux bring in tens of thousands of new users, or would it simply shift part of the existing user base to a different OS?”

State of Desktop Linux

The long tail of desktop apps:

- Most Windows apps custom-written
- Mostly VB or MS Access
- Mission critical for a few users
- Developer either too busy or long gone

Huge disincentive to rewrite!

State of Desktop Linux

So a large fraction of potential Linux users absolutely need to run old Windows apps!

Our options:

- give up on these users
- make them run Windows virtually
- support their apps directly on Linux

Should we support Windows apps?

Some people object to supporting non-free software

The road to 100% free software starts with free applications

But users shouldn't have to wait until all apps are free before migrating to a free operating system!

Can we support Windows apps?

Eric Schmidt, “Unwinnable Wars”, 1999:
“Everyone was using Office [so we cloned win16]. Why didn't it work? Against a fast competitor, a cloning strategy doesn't work, at all. If you want to do this, you're welcome to do it. But I've done mine, right. And I had the best team in the world.”

Judge Jackson, U.S. vs. Microsoft, 2001:
“Attempting to clone [win32] is such an expensive, uncertain undertaking that it fails to present a practical option for a would-be competitor to Windows.”

Should we support Windows apps?

Can we support Windows apps?

HELL

YEAH!

Enter Wine

Wine Is Not an Emulator

Code is 1.5 MLOC of C. License is LGPL.

Implements most needed win32 API calls

Runs on Linux, MacOSX, BSD, Solaris

Project started in 1993

Commercial support since 2001 (Codeweavers)

Conformance test suite since 2002

Coverity scans since 2006

Valgrind scans since 2007

Pleasing Friendly Users Since 1997

From: Martin Boehme

Subject: Wine and Word95 - Success!

Date: 1997/11/18

Wine-971116 has been one of the most exciting releases of Wine for me... I tried

```
$ wine -dll -shell32 -winver win95 winword
```

I stared. I goggled. I gaped. Shock. Disbelief. Amazement. There was Word 95. On my Linux desktop. Word 95. A mainstream 32-bit application.

To whoever made this possible: You are my God.

Wine Developers

~1000 contributors on five continents

2001: 140 contributors, 150-200 commits/month

2004: 214 contributors, 250-500 commits/month

2006: 225 contributors, 500-1000 commits/month

2007: 241 contributors, 600-1000 commits/month

2008Q1: 105 contributors, 700-1000 commits/month

80%-90% are hobbyists

Wine Developers

Commercial interest supports ~10 fulltime developers:

1999: Corel hires engineers to improve Wine

1999: Codeweavers funded to improve Wine

2000: Borland hires Codeweavers to improve Wine

2001: Lindows hires Codeweavers to improve Wine

2002: Codeweavers releases Crossover Office

2003: Disney pays to support Photoshop 7

2005: Google Summer of Code

2006: Google pays to support Picasa

2006: Google starts summer wine internships

2007: Google pays to support Photoshop CS2

Wine Status

Most Windows apps do not run yet

But appdb.winehq.org lists 1000+ 'platinum' apps:

- Photoshop CS2
- Dreamweaver 8
- World of Warcraft
- Guild Wars
- Call Of Duty 1, 2

Users reporting rapid progress

Please test your favorite app and report bugs!

Still Pleasing Friendly Users

From: Variant
To: Enemy Territory Quake Wars Forum
Subject: Great, GREAT news...!
Date: 10 April 2008

Thanks to the amazing work by the wine developers in bringing us wine version 0.9.59, ETQW SDK tools such as world edit and the others now work under wine on linux!

I think this calls for a dancing banana!



The tools have gone from not working at all in wine 0.9.58 to working (so far) flawlessly in wine 0.9.59.

Wine 1.0 Release Criteria

We're already ready, just cleaning up loose ends

Regressions in these apps would block release:

- Photoshop CS2 tryout
- Microsoft Powerpoint Viewer 97 and 2003
- Microsoft Word Viewer 97 and 2003
- Microsoft Excel Viewer 97 and 2003

See wiki.winehq.org/WineReleaseCriteria

Wine 1.0 Release Plan

May 2008: code freeze, 1.0 release candidate

June 2008: Wine-1.0.0 branched, released

June 2008: Development continues with Wine-1.1.0

See wiki.winehq.org/WineReleasePlan

Please test your favorite apps and report any regressions!

What to expect after 1.0?

A few things the community might try:

- Photoshop CS3
- .NET
- Mono
- Jscript
- DirectShow
- DIB Engine

What to expect after 1.0?

Summer of Code proposals include:

- Improve MSXML
- Improve common print dialog
- Implement DirectPlay
- Implement VBScript

Questions

Wine home page:
winehq.org

Slides online at
<http://kegel.com/wine/lugradiolive2008>