

兼容与突围

从 Windows 应用到 Linux 生态

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- CodeWeavers
- Wine
- 极客

小调查

- 极客？
- 国人自己的操作系统？！

极客梦， 中国梦

极客梦， 中国梦

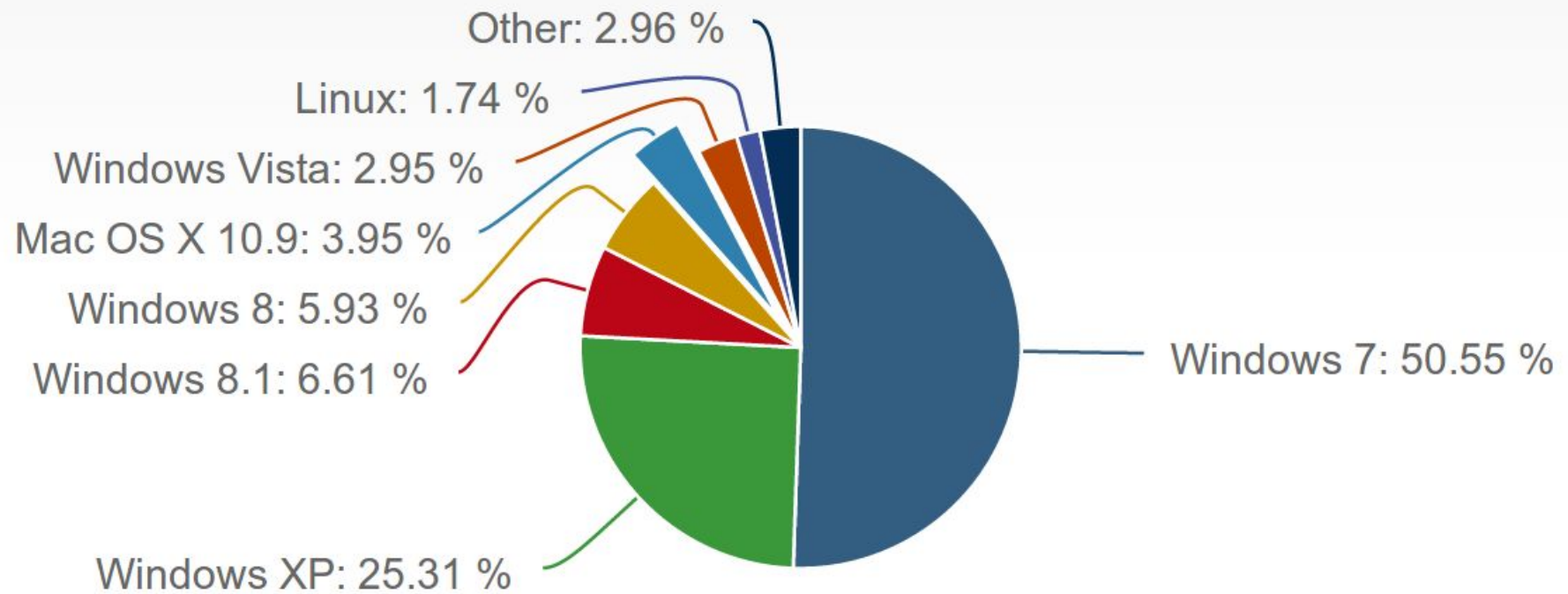
- 极客梦： 自己的操作系统
- 中国梦： 自己的操作系统

极客梦

- 10行代码，1万人用？
- 1万行代码，10人用？

用户与生态

Windows VS 其它



Linux生态

先有鸡还是先有蛋？

- 商业软件少，用户少
- 用户少，商业软件少

解决方案

- 开发Linux应用
- 兼容Windows应用



WINE = Wine

Is

Not

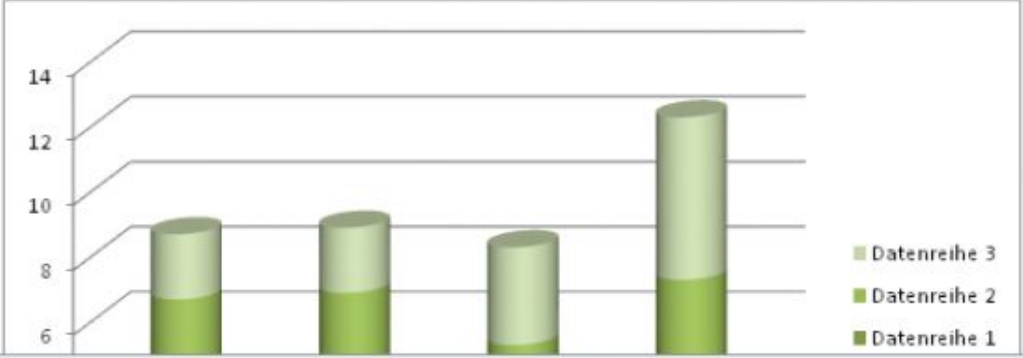

Emulator

Wine 兼容性概览

Dokument1 - Microsoft Word

Datei Start Einfügen Seitenlayout Verweise Sendungen Überprüfen Ansicht

Deckblatt Leere Seite Seitenumbruch
Tabelle Grafik ClipArt Formen SmartArt Diagramm Screenshot
Hyperlink Textmarke Querverweis
Kopfzeile Fußzeile Seitenzahl
Textfeld Schnellbausteine WordArt WordArt Initialen
Signaturzeile Datum und Uhrzeit Objekt
Formel Symbol



Bar	Datenreihe 1	Datenreihe 2	Datenreihe 3	Gesamt
1	7	0	2	9
2	7	0	2	9
3	5	0	4	9
4	8	0	5	13

Suchen nach: hund

Ergebnisse: Alle Mediendateitypen


Office.com-Inhalte berücksichtigen

Auf Office.com weitersuchen

Hinweise zum Suchen von Bildern

Seite: 1 von 1 Wörter: 0

100 %





Brush Tool Layer Comps

Navigator Info Histogram

50%

Color Swatches Styles

R	0
G	0
B	0

History Actions

Voyage2.jpg

Open

Layers Channels Paths

Normal Opacity: 100%

Lock: Fill: 100%

Background



100

0

2:10

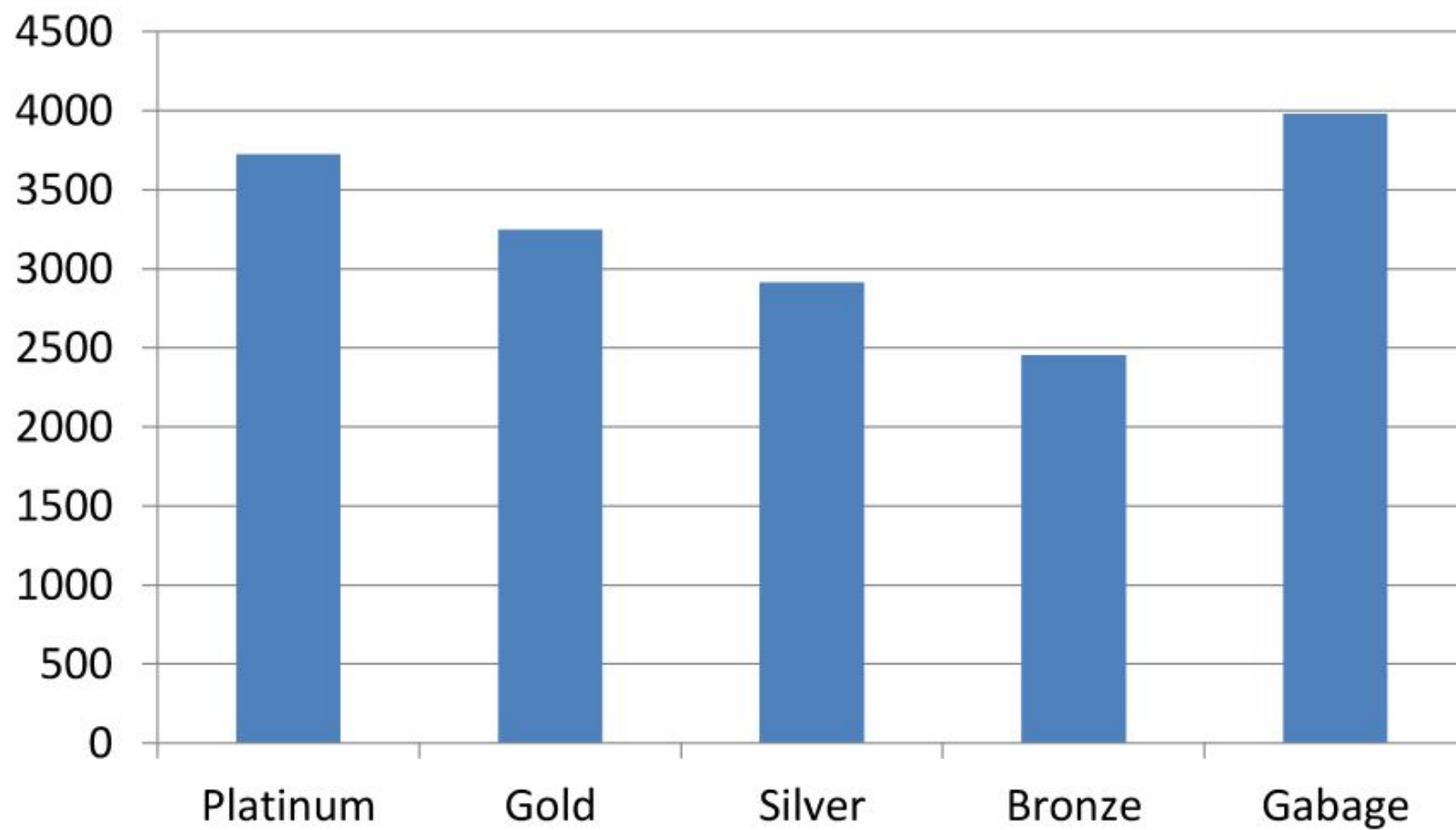
\$ 800

12 | 100

WINE HQ



Wine 应用兼容数据库



原理

- Windows应用 + Linux 系统?
- Gtk?
- Qt?
- Wine : 函数库, 兼容层

Wine可靠吗？

- 测试驱动开发
- 开放源码
- 强烈的知识产权意识
- 社区支持
- 商业支持
- 企业用户认可

Main summary for build f9f3b21fb3a8

platforms	2000 newtb-w2000pro	XP 7 reports	2003 2 reports	2008 newtb-w2008s64-32	Win7 newtb-w7u	Win8 newtb-w8	Linux 3 reports	
errors	4 0.7%	23 4.1%	1 0.2%	3 0.5%	13 2.3%	41 7.3%	23+260 4.1+46.5%	
advapi32:cred	0	0	0	0	0	0	4	history source all builds
advapi32:crypt	0	0	0	0	0	0	0	history source all builds
advapi32:crypt_lmhash	0	0	0	0	0	0	0	history source all builds
advapi32:crypt_md4	0	0	0	0	0	0	0	history source all builds
advapi32:crypt_md5	0	0	0	0	0	0	0	history source all builds
advapi32:crypt_sha	0	0	0	0	0	0	0	history source all builds
advapi32:eventlog	0	0	0	0	0	0	56	history source all builds
advapi32:lsa	0	0	0	0	0	0	0	history source all builds
advapi32:registry	0	0	0	0	0	0	7	history source all builds
advapi32:security	0	0	0	0	0	0	145	history source all builds
advapi32:service	0	0	0	0	0	0	mixed	history source all builds
advpack:advpack	0	0	0	0	0	0	12	history source all builds
advpack:files	0	0	0	0	0	0	0	history source all builds
advpack:install	0	0	0	0	0	0	0	history source all builds
amstream:amstream	0	0	0	0	0	0	0	history source all builds
apphelp:apphelp	n/a	0	0	0	0	0	0	history source all builds
atl100:atl	n/a	0	n/a	n/a	n/a	0	0	history source all builds
atl80:atl	0	0	n/a	n/a	n/a	0	0	history source all builds
atl:atl_ax	0	0	0	0	0	0	0	history source all builds
atl:module	0	0	0	0	0	0	0	history source all builds
atl:registrar	0	0	0	0	0	0	0	history source all builds
avifil32:api	0	0	0	0	0	0	0	history source all builds
bcrypt:bcrypt	n/a	n/a	n/a	0	0	0	0	history source all builds
browseui:autocomplete	0	0	0	0	0	0	1	history source all builds
browseui:proaressdla	0	0	0	0	0	0	0	history source all builds

Languages



C

97%



15 Other

3%

Lines of Code

2.5M

0M

1994

1998

2002

2006

2010

2014



Code



Comments



Blanks

知识产权

- LGPL开源协议，允许绑定厂商程序
- 严格黑盒净室开发，拒绝侵权代码
- Software Freedom Conservancy 法律支持

社区支持

- 累计1000+开发者
- 20年历史
- 80% 开发工作由 20% 核心开发者完成

商业支持

- CodeWeavers
- > 10年 Wine 开发经验
- 贡献 Wine 项目一半代码
- 客户：50强企业

Wine与开源大家庭

- 上游
 - Gcc, clang
 - Kernel
 - Freedesktop
 - Gecko (Firefox)
 - Mono
- 工具
 - Git, Emacs, ...

社区愿景

- Wine是突破点
 - 支持更多软件
 - 帮助更多用户和企业迁移到Linux
 - 吸引更多厂商开发Linux软件
- Wine会消亡吗？

中国社区贡献

- Google 代码夏令营
 - Wine 2012: 1名中国学生
 - Wine 2013: 2名中国学生
 - Wine 2014: 3名中国学生
 - Wine 2015: ?
- 合作社区
 - Deepin

riched20: Return nonzero value instead of zero when EM_SETREADONLY succeeds.

106 min ago	Jactory Zeng	riched20: Return nonzero value instead of zero when...	commit commitdiff tree
26 hours ago	Jactory Zeng	riched20: Initialize ed->reOle in ME_MakeEditor().	commit commitdiff tree
3 days ago	Jactory Zeng	riched20: Don't create too many IRichEditOle interface...	commit commitdiff tree
2014-03-27	Jactory Zeng	riched20: Fix a typo in CreateIRichEditOle.	commit commitdiff tree
2014-03-26	Jactory Zeng	riched20: Return E_INVALIDARG for empty ppSel in ITextDocume...	commit commitdiff tree
2014-03-13	Jactory Zeng	riched20/tests: Fix a SysAllocString leak.	commit commitdiff tree
2014-03-12	Jactory Zeng	include: Fix a typo in ITextServices method named TxGetCurTa...	commit commitdiff tree
2014-02-12	Jactory Zeng	riched20/tests: Add tests to check the content open...	commit commitdiff tree
2014-01-27	Jactory Zeng	riched20: Add UTF8 support for EM_SETTEXTEX.	commit commitdiff tree
2014-01-27	Jactory Zeng	riched20: Use codepage in ME_ToUnicode.	commit commitdiff tree
2014-01-06	Jactory Zeng	riched20: Use CP_UNICODE instead of 1200.	commit commitdiff tree
2013-09-27	Jactory Zeng	riched20/tests: Add UTF8 BOM tests for EM_SETTEXTEX.	commit commitdiff tree
2013-09-10	Jactory Zeng	riched20: Add a length return parameter to ME_ToUnicode.	commit commitdiff tree
2013-09-05	Jactory Zeng	riched20/tests: Add tests of ITextDocument_Open.	commit commitdiff tree
2013-08-19	Jactory Zeng	include: Add definition of ST_UNICODE.	commit commitdiff tree
2013-07-12	Jactory Zeng	po: Update Simplified Chinese translation.	commit commitdiff tree
2013-07-09	Jactory Zeng	po: Update Simplified Chinese translation.	commit commitdiff tree
2013-07-08	Jactory Zeng	po: Update Simplified Chinese translation.	commit commitdiff tree
2013-04-29	Jactory Zeng	msvcrt: Fixed typo of _strncoll and _strncoll_l.	commit commitdiff tree
2013-04-19	Jactory Zeng	msvcrt: Added _wfindfirst32 implementation.	commit commitdiff tree
2013-04-19	Jactory Zeng	include: Added missing declarations to msvcrt.	commit commitdiff tree
2013-04-01	Jactory Zeng	msvcrt: Add missing declarations for _wcsncoll, _wcsncoll_l...	commit commitdiff tree
2013-04-01	Jactory Zeng	msvcrt: Added _wcsnicoll_l implementation.	commit commitdiff tree
2013-04-01	Jactory Zeng	msvcrt: Added _wcsicoll_l implementation.	commit commitdiff tree
2013-04-01	Jactory Zeng	msvcrt: Added _wcscoll_l implementation.	commit commitdiff tree
2013-03-29	Jactory Zeng	msvcrt: Added _wcsncoll and _wcsncoll_l implementation.	commit commitdiff tree
2013-03-14	Jactory Zeng	atl100: Added AtlSetPerUserRegistration stub implementation.	commit commitdiff tree
2013-02-14	Jactory Zeng	msvcrt90: Sync _wstat32i64 and _stat32i64 implementation.	commit commitdiff tree

riched20: Return nonzero value instead of zero when EM_SETREADONLY succeeds.

- 2 days ago Zhenbo Li **shlwapi/tests: Add tests for PathsRelativeA/W.** [commit](#) | [commitdiff](#) | [tree](#)
- 9 days ago Zhenbo Li **shell32: Fix SHFileOperation when deleting a nonexistent...** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-06-16 Zhenbo Li **mshtml: Added IHTMLTableCell::cellIndex method implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-06-12 Zhenbo Li **mshtml: Added IHTMLTableRow::insertCell method implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-06-12 Zhenbo Li **mshtml: Added IHTMLDocument2::toString method.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-05-19 Zhenbo Li **mshtml: Added IHTMLLinkElement::media property.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-05-19 Zhenbo Li **mshtml: Added IHTMLTableRow::deleteCell method implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-05-19 Zhenbo Li **mshtml: Added nsIDOMHTMLTableCellElement declaration.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-05-19 Zhenbo Li **mshtml: Added IHTMLLocation::assign method implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-05-08 Zhenbo Li **mshtml: Added IHTMLSelectElement::remove method implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-05-05 Zhenbo Li **mshtml: Removed invalid nsAString_InitDepend from HTMLTableR...** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-05-02 Zhenbo Li **mshtml: Added IHTMLTable::width property implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-04-25 Zhenbo Li **mshtml: Added IHTMLTable::width property implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-04-08 Zhenbo Li **mshtml: Added IHTMLTable::bgColor property implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-04-08 Zhenbo Li **mshtml: Don't free a string too early.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-03-26 Zhenbo Li **mshtml: Added IHTMLTable::bgColor property implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-03-21 Zhenbo Li **mshtml: Added IHTMLTable::align property implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-03-18 Zhenbo Li **mshtml: Added IHTMLTable::sectionRowIndex property...** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-03-17 Zhenbo Li **mshtml: Added IHTMLTable::rowIndex property implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-03-13 Zhenbo Li **mshtml: Added IHTMLTable::vAlign property implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-03-12 Zhenbo Li **mshtml: Added IHTMLTable::align property implementation.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-01-02 Zhenbo Li **wineps.drv: Constify a few pointers.** [commit](#) | [commitdiff](#) | [tree](#)
- 2014-01-02 Zhenbo Li **kernel32/tests: Add one more test for FindFirstFileA.** [commit](#) | [commitdiff](#) | [tree](#)
- 2013-12-23 Zhenbo Li **kernel32/tests: Add some tests for DeleteFileA.** [commit](#) | [commitdiff](#) | [tree](#)
- 2013-11-20 Zhenbo Li **shell32/tests: Delete a nonexistent file in an existent...** [commit](#) | [commitdiff](#) | [tree](#)
- 2013-11-13 Zhenbo Li **shell32/tests: Add a missed init_shfo_tests() call.** [commit](#) | [commitdiff](#) | [tree](#)
- 2013-11-11 Zhenbo Li **shell32/tests: Add tests for SHFileOperationA.** [commit](#) | [commitdiff](#) | [tree](#)
- 2013-10-15 Zhenbo Li **atl90: Added new dll.** [commit](#) | [commitdiff](#) | [tree](#)

[summary](#) | [shortlog](#) | [log](#) | [commit](#) | [commitdiff](#) | [tree](#)

[first](#) · [prev](#) · [next](#)

riched20: Return nonzero value instead of zero when EM_SETREADONLY succeeds.

9 days ago	Shuai Meng	vbscript: Implemented TypeName.	commit commitdiff tree
2014-06-16	Shuai Meng	vbscript: Implemented CSng.	commit commitdiff tree
2014-06-12	Shuai Meng	vbscript: Fixed Cint.	commit commitdiff tree
2014-06-12	Shuai Meng	vbscript: Implemented CLng.	commit commitdiff tree
2014-06-12	Shuai Meng	vbscript: Implemented CDbt.	commit commitdiff tree
2014-05-20	Shuai Meng	vbscript: Implemented CCur.	commit commitdiff tree
2014-05-14	Shuai Meng	vbscript: Implemented CByte.	commit commitdiff tree
2014-05-08	Shuai Meng	vbscript: Fixed CBool handling.	commit commitdiff tree
2014-03-25	Shuai Meng	oleaut32: Fixed bounds of VarIntFromFloat.	commit commitdiff tree

极客梦， 中国梦

- 跨越长城， 走向世界

欢迎加入

- 世界上最苦逼的开源项目
 - <http://www.winehq.org>
 - 技术挑战
 - 啤酒盛会
 - fracting@gmail.com
 - qhong@codeweavers.com





