

# **Sun and Open Source**

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# Agenda

- **About Sun Microsystems**
- Why is Sun doing Open Source?
- Overview of Sun open source projects
- Conclusion
- Q & A

# About Sun Microsystems

- Founded in 1982
- Fortune 500 company
- Vision: “Network is the computer”
- Offers:
  - > Servers
  - > Storage
  - > Software
  - > Services
- 33,000 employees

# Oracle to Acquire Sun Microsystems

- Acquisition announced on April 20
- Sun acquired for \$9.50 per share (7.4 billion USD)
- Oracle expected to continue to invest in Sun's technology and communities
- Main reasons: Solaris and Java
- More details:
  - > [www.sun.com/oracle](http://www.sun.com/oracle)
  - > [www.oracle.com/sun](http://www.oracle.com/sun)

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# Why is Sun Doing Open Source?

- Open Source is good for business
  - > Decreases barriers to entry
  - > Everyone can use free software
  - > Monetize at the point of value
- Sun has a smaller sales force than IBM, HP or Dell
  - > The idea is that many people will try Sun software because it is free
  - > Those who try Sun software might like it and buy from Sun
  - > If only 5% buys Sun it will be good for Sun

# Sun's Contribution to Linux

Rank	Company	Estimated \$ value
1	Sun Microsystems Inc	404 m
2	IBM Corp	116 m
3	Red Hat Corp	76 m
4	Silicon Graphics Corp	61 m
5	SAP AG	60 m
6	MySQL AB	45 m
7	Netscape Communications Corp	41 m
8	Ximian Inc	39 m
9	RealNetworks Inc	35 m
10	AT&T	34 m

## Estimated Substitution Cost of Sun's contribution to Debian GNU/Linux

includes code in  
**GNOME**  
**Linux kernel**  
**Mozilla**  
**OpenOffice.org**  
**X.org**  
**and other projects**

Source: UNU-MERIT report for the European Commission  
 "Economic impact of FLOSS on innovation and competitiveness of the EU ICT sector"  
 January 2007

# Sun's Contribution to FOSS

Project	Estimated \$ value
OpenJDK (Java SE)	399 m
GlassFish (Java EE)	193 m
Mobile & Embedded (Java ME)	248 m
OpenSolaris	236 m
NetBeans	75 m
OpenSPARC	408 m
GridEngine	24 m
Open SSO	21 m
LookingGlass	2 m
Sun's Contribution to GNU/Linux	404 m
<b>Total</b>	<b>2 bn</b>

## Estimated Substitution Cost Sun's contribution to Free and Open Source Software

not exhaustive:  
 not all projects counted  
 some Java SE code still to be released in 2007  
 Method: COCOMO 1



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# OpenOffice

- Office suite comparable to Microsoft Office
- Uses open format – ODF
  - > Guarantee that you will be able to open your documents in the future
  - > Some governments require open document formats
- More than 100.000.000 downloads
- Good compatibility with Microsoft Office
- Extensible using NetBeans

# OpenSolaris

- Sun's operating system
- Known for it's stability, reliability, security and scalability
- Similar to Linux but has advantages
  - > ZFS - revolutionary file system
  - > Dtrace - dynamic tracing / debugging
  - > IPS - easier updates of OS
- Available as Live CD

# NetBeans

- One of the most popular IDEs
- Great for Java, but also for other languages
  - > PHP, Groovy, Python, C/C++, JavaScript and others
- Easily extensible using plug-ins
- Also serves as a platform
  - > You can reuse code from NetBeans
  - > Save development time
- Fast growing community (650k active users)

# MySQL

- The most popular database for web applications
- Great performance for typical web deployment
- Easy to use and manage
- Sun acquired MySQL AB in 2008
- Some enterprise features are not free

# Java

- Most popular programming language of today
- Very powerful virtual machine - JVM
- Desktop, web and mobile deployments
- Mature APIs, great scalability, lots of frameworks
- Integrated with scripting languages (e.g. Groovy)
- Billions of mobile devices support Java
- Java FX - richer applications on Java platform

# VirtualBox

- Desktop virtualization software
- Hosts: Windows, Mac, Linux, Solaris
- Guests: basically any OS
- Very good performance
- Snapshots, UI acceleration
- Can be extended, web services API

# GlassFish

- Reference implementation of Java EE
- But also great for commercial deployment
- Always first to support latest EE standards
- Supports clustering and high availability
- v2 - current stable release
- v3 - better modularity, faster startup



# Other Projects

- Open SPARC
- Open HA cluster
- JavaDB
- OpenDS
- OpenxVM
- OpenESB
- More...

# Conclusion

- Sun = biggest contributor to open source
- Open source can be good for business
  - > It's not about “free”, distribution brings the value
  - > Viral marketing for non-software products
- Sun owns some of the most well known open source brands:
  - > Java, MySQL, OpenSolaris, OpenOffice, VirtualBox, etc.
- Join Sun's open source communities

# Q & A

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# Thank You!

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