Innovation at Sun

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Today's Presentation Slides Will be available from

www.javapassion.com
Innovation Is Changing The Game

• Network is still the computer
• Solaris 10
• Open source and Sun
• Java innovation
• Java tools
• Fun things we do
A History of “Significant” Software Innovation
Network Is Still The Computer!
Computing "Laws"

- **Moore's Law**
  > Computing speed roughly doubles every 18-24 months

- **Gilder's Law**
  > Network bandwidth capacity doubles roughly every 12 months

- **Metcalfe's Law**
  > The value of a network grows exponentially as the number of nodes increases
  > This is where future opportunities lie
  > Level-playing field
  > Blogging, eBay, Online games, Instant messaging, Google, Flicker, MySpaces
Sun is a Leader in RFID Technology

WW installed, 2012

Source: IDC Estimates, 2004
Sun Pioneers Utility Computing

• Use the computing resources like we use electricity
  > Simple to use: plug & play
    > Complexity is hidden
  > Use it as much as you want and only when you want
    > Metered pricing
  > Resources could be
    > Computing resources
    > Storage resource
    > Printing resource
    > Software resource

• Software as a service
  > As opposed to shrink-wrap model
N1: Virtualization of Resources

- N1 provisions storage, compute, and network
- N1 manages service levels
- N1 meters resource utilization

Reduce Costs, Improve Service Levels and Increase Agility through Virtualization of Resources
Solaris 10
Solaris 10

- OS performance
- Dynamic Tracing (DTrace)
- Solaris Containers
- Predictive Self-Healing
- Secure Execution
- ... and Much More
Open Source and Sun
Open Source and Sun

Sun Initiated and Sponsored

Open Source

Standards and Industry Groups
# Java Is Everywhere!

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Sun Does
End-to-End Computing

Data Center

App Server Tier

Edge Tier

Client Desktop Tier

Devices & Appliances Tier
Java Technology
Platforms & Tools
Modular, dynamic, Java IDE

Open sourced in 2000

Over 7M downloads,

Broad list of platform plug-ins

300+ committers, 117,000 commits in past year

132% user gain in past 9 mo.

www.netbeans.org

 Compatibility and Inclusion
Java Studio Creator

The Premier Tool that Reduces Cost and Complexity of Web Application Development

- First 100% Java standards-based visual developer environment, reducing the complexity of building Java solutions
- Consolidate all your development around one platform for development and deployment
- Create Web applications, consuming multi-tier services and data
Java Studio Enterprise 8

Empowering the Enterprise with a Revolutionary Development Platform with a Powerful Feature Set

- The only marker-less roundtrip UML model to code capability
- Integrated and comprehensive profiling and testing with built in load testing
- First with unique code aware developer collaboration
- Leverages the award winning NetBeans platform
- Develop and deploy to the Sun Java Enterprise System
Solaris Sun Java™ Enterprise System

- Directory EE
- App Server
- Message Queue
- Web Server
- Portal
- Messaging
- Calendar
- Corporate IM
- Cluster
- Access Manager
- Portal Mobile Access*
- Identity Manager*
- N1 Provisioning System*

Highlights

- Pre-integrated, pre-tested software system
- Infinite right-to-use
- Multiplatform support (Solaris, Solaris x86, Linux, Windows)
- Developer tools included
- Targeted suites available
Go get them! They are Free!

http://developers.sun.com
Other Fun Things We Do
Mars Rover (Project Golden Gate)
Smart-Dust (SPOT)
Convergence Of Technologies

Sensors
Miniaturization, MEMS, lower power & cost

Smart Dust

Communication
Wireless: Wi-Fi, Bluetooth

Computing
Power
Results of Moore's law
Innovation at Sun

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