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USE IMPROVE EVANGELIZE

Free and OpenSource Software in Sun What why and Where ?

Haim Tzadok, Cyril Plisko
Grigale LTD

Sun's Open Source Initiative

- Sun has contributed more (measured in lines of code) to open source than any other organization
  - 2006 European Commission: Sun's contributions account for over 25% of the code in Debian Linux distribution -- over 3x more than any other organization
  - Estimated value for all Sun contributions is over $2 billion
- Sun participates in many external open source projects, including Linux, GNOME, Mozilla, X.org, Derby, PostgreSQL, Roller.
- Sun has contributed hardware to many projects, and sponsors java.net providing key infrastructure components for open source development.

Sun Offers a Full Open Source Stack

- http://www.sun.com/software/opensource/learnmore.jsp
- Hardware: OpenSPARC
- Operating System: OpenSolaris, Linux
- Clustering: Grid Engine, Open MPI
- Development: OpenJDK, Fortress, Netbeans
- Middleware: MySQL, OpenDS, OpenSSO, Glassfish, OpenPortal, OpenInstaller, OpenCDS, OpenESB
- Desktop: x.org, GNOME, OpenOffice.org, Mozilla, Looking Glass

How Can Open Source Make Money?

- Give away the software, but charge for related items
  - Support Contracts
  - Professional Services
  - OEM and Reseller Licenses
  - Sponsored Development
  - Training and Certification
  - Managed and Hosted Services
- Sell the hardware that runs the software
  - Servers, workstations, thin clients
  - Storage, network and security equipment

OpenSolaris

- Available at http://www.opensolaris.org/
- Virtually all of Solaris is now open source (CDDL)
  - Some components are currently still binary-only due to legal issues, although an Emancipation Project is trying to address that
  - Some components are being phased out (e.g., CDE, OpenWindows) and aren't planned to be included
- Many ongoing projects and communities
  - DTrace, ZFS, Zones, Trusted Extensions, BrandZ, Xen, NFS, Networking, Resource Management, etc.
  - Active mailing lists provide direct access to developers and help shape the future of Solaris / OpenSolaris

OpenSolaris distro's

- http://www.opensolaris.org/os/downloads/
- Nevada -- Sun's OpenSolaris Distribution
  - Available through Solaris Express
  - Will eventually become the next version of Solaris
- NexentaOS -- GNU/OpenSolaris
  - Kind of like Ubuntu with a Solaris kernel
- BeleniX -- OpenSolaris Live CD
- marTux -- First external SPARC-based distribution
- Schillix — One of the first distributions, but hasn't been kept current

OpenSPARC

- Available at http://www.opensparc.net/
- Includes information about OpenSPARC-T1 (the open source version of the UltraSPARC-T1)
  - 8 CPU cores, 4 hardware threads per core
  - Verilog RTL, hypervisor API, diagnostic tests, misc. scripts and tools available under GPLv2
- Makes it easy for other OSes to support this CPU
  - Ubuntu and Gentoo Linux
  - FreeBSD
  - OpenVZ Virtualization
- Simply RISC has built a single-core version

OpenJDK

- Available at http://openjdk.java.net/
- Open sourced over the last year
  - Officially announced at JavaOne last year (May, 2006)
  - Fully buildable by JavaOne this year (May, 2007)
- Virtually all available under GPLv2
  - As of the release announcement, the available code is at Java 1.6.0_01-b06, which is the same as the latest downloadable binary version
  - Still a couple of binary-only components licensed from external vendors

The CDDL License

- An OSI-approved open source license
- A file-based license, very similar to the MPL
- Very flexible for integrating with other licenses, including closed-source licenses
  - Ensures that any code released under CDDL will stay open under CDDL. Any new files that you want to create or integrate in can be under almost any license you want.
- Includes patent grant and patent protection clauses
- Not compatible with GPLv2, mainly due to GPL
  - Many other common licenses aren't GPL compatible
  - Other licenses only compatible after retroactive changes

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Thank you !