

Introduction to OpenSolaris

Agenda

- What is OpenSolaris
- Licensing
- Source Code
- Getting Involved
- Resources

What is OpenSolaris?

- An open development effort based on Solaris
 - > Non-Sun developers can contribute.
 - > Collaboration between Sun and non-Sun developers
- An attempt to use a community development model to develop Solaris
 - > Future versions of Solaris will be based around OpenSolaris.
 - > Expand the ecosystem of Solaris technology.
 - > Better engage with the Solaris developer and user communities.

Why Open Source?

- Customers are demanding it.
- Good for Security and quality.
- Open development can take Solaris to places, closed development could not.

Interaction with Open Source Community

- Sun and non-Sun developers collaborate on open-source projects.
- Include reviewers from the community.
- Community Advisory Board (CAB)
- Commercial Solaris product assembled from OpenSolaris code.
- OpenSolaris distributions
 - > SchilliX
 - > BeleniX

Licensing

- Most of the OpenSolaris code is released under CDDL.
- Common Development and Distribution License (CDDL)
- OSI-approved open source license.
- Based on the Mozilla Public License (MPL).
- Allows royalty-free use, modification, derived works.
- Source for modifications must be published but proprietary extensions possible.
- Includes an explicit patent license for code released under CDDL.
- More details:
 - > http://opensolaris.org/os/licensing/opensolaris_license/
 - > http://opensolaris.org/os/about/faq/licensing_faq/

Source Code

- Currently available source:
 - > Core Solaris Functionality (kernel, libraries and commands).
 - > Includes Solaris 10 innovations.
- Code Structure
 - > cmd: This directory contains sources for various commands and scripts.
 - > lib: Libraries. lib contains subdirectories for different libraries.
 - > uts: Kernel sources are here.
 - > common: All platform-independent kernel sources. (conf, crypto, disp, fs, io, inet, rpc, nfs, syscall, vm)
 - > More details:
 - > <http://cvs.opensolaris.org/source/>
 - > For building and installing OpenSolaris:
 - http://opensolaris.org/os/community/tools/building_opensolaris/

Getting Involved

- Use It
 - > Get Solaris Express or one of OpenSolaris Distro
 - > Get the code and build it
 - > Report problems
 - > Get involved in the community
- Improve It
 - > Join communities involved with developing.
 - > Pick up byte-sized bugs and fix them.
 - > Contribute code back to the source base
 - > Get involved with documentation and testing

Get Involved (cont...)

- Evangelize
 - > Join the marketing discussion.
 - > Add fan buttons to your website.
 - > Help talk about OpenSolaris at community events.

Resources

- Central resource for OpenSolaris
 - > <http://opensolaris.org>
- Browse and download source code
 - > <http://cvs.opensolaris.org/source/>
 - > <http://opensolaris.org/os/downloads/>
- Development Process and reference guide
 - > http://opensolaris.org/os/community/onnv/os_dev_process/
 - > http://opensolaris.org/os/community/onnv/devref_toc/
- Communities
 - > Nevada, DTrace, Networking, Fault Management, etc.
 - > User Groups: Bangalore OpenSolaris User Group (BOSUG)
- Mailing Lists: opensolaris-discuss@opensolaris.org