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The OpenSolaris Story

Jim Grisanzio
Community Manager, OpenSolaris
Sun Microsystems
Tokyo, Japan

opensolaris™

It's all about the **code** and the **community** and the **market** that results from all those people working on all that code.

Home at OpenSolaris.org - Web Browser

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop https://www.opensolaris.org/os/ Go Search Print

opensolaris

Discussions Communities Projects Download Source Browser

Search

You are signed in as jimgris (Jim Grisanzio). Sign out

Site Administrator
- Edit this page
  - Manage children
  - Manage attachments
- Add a page
- Find user accounts
- Add user account
- Housekeeping
- Edit site

Site Editor
There are no Site Editor options available for this page.

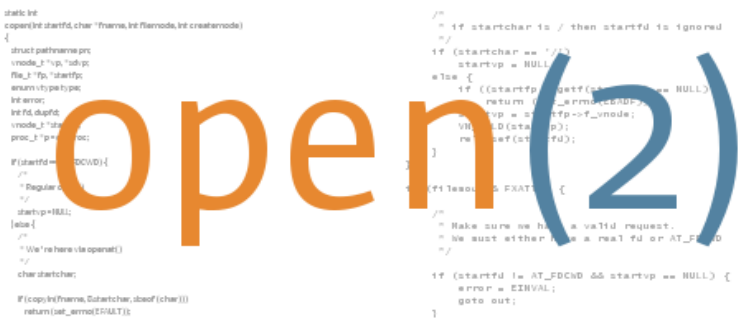
About OpenSolaris
- Project Overview
- FAQ Center
- Roadmap
- Governance/CAB
- Site Map

Communities
- Portal
- Nevada Project
- All Communities

Projects
- Portal
- All Projects

Code
- Source Browser
- Download
- Bug Database

Connect
- Register
- Discussions
- Blogs
- Announcements
- Events
- News
- Related Links



What is the OpenSolaris Project?

The OpenSolaris project is an open source community and a place for collaboration and conversation around OpenSolaris technology.

The community represents a wide variety of people around the world, including developers adding functionality to the system or customizing the technology for new applications and platforms; system administrators implementing Solaris technology in data centers; educators and students researching operating systems in universities; and new users exploring the technology and discovering that OpenSolaris offers new opportunities.

The OpenSolaris source code is already cutting edge, but innovation happens everywhere so we welcome your involvement. Here's what our community has to offer:

Start by taking a look at our project overview and Roadmap.
(If you're looking for information about the Solaris Operating System, go over here).

Join dozens of lively discussion forums for conversations on almost any topic. You may wish to subscribe to opensolaris-announce, if you're a new member. Or join the fray in opensolaris-discuss. You can also join the conversation via IRC on irc.freenode.net #opensolaris.

Visit our Community Portal to learn all about how to get involved. Or check in on Nevada.

Access our Projects Portal to explore active projects we're hosting.

Download the source, BFU archives and tools you'll need. HTTP and Torrent downloads are offered.

Explore the source using our "wicked fast" code browser, OpenGrok

By the Numbers
Check out the community code contributions. Find community stats.

Squawk
Lively conversation at **opensolaris-discuss** [subscribe]

IRC at irc.freenode.net **#opensolaris**

Buttons and Banners
GET opensolaris
Get cool buttons and ribbons for your blog or website!

Launch Home at OpenSolaris.org [ug-shosug] 测试 (test fro Buddy List Untitled1 - StarOffice 7 grisanzio-opensolaris-stor Fri Sep 1, 11:01 AM

The Perfect Combination

Perfect Opportunity to **Build a Community**

- Sun executives – expand the Solaris market, drive Solaris into new markets, sell more systems and services.
- Solaris engineers – engage developers outside the company, share code, improve an already great system.
- Solaris market and community – see the code, optimize apps, contribute to Solaris development, create ports and distros.

Sun's Community Experience

If Sun ever transitions from a hardware company to be a consulting company ... best practices for open sourcing are something it could sell.

-- Nat Torkington, O'Reilly Media, 7/06

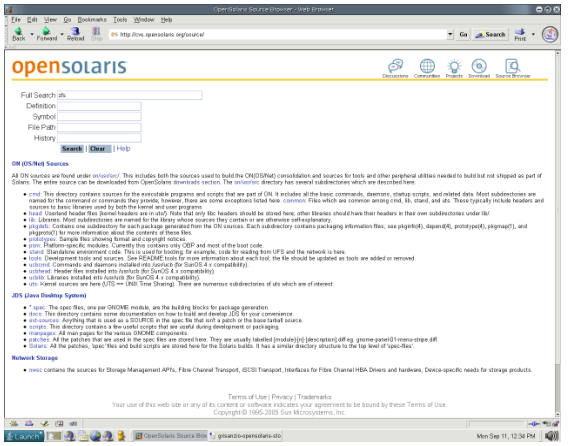
The Code

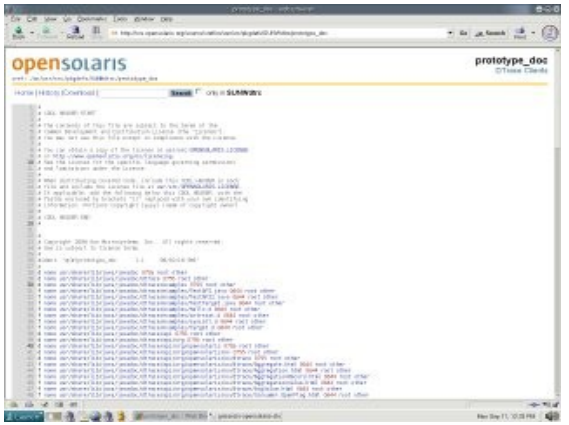
OpenSolaris Source Today

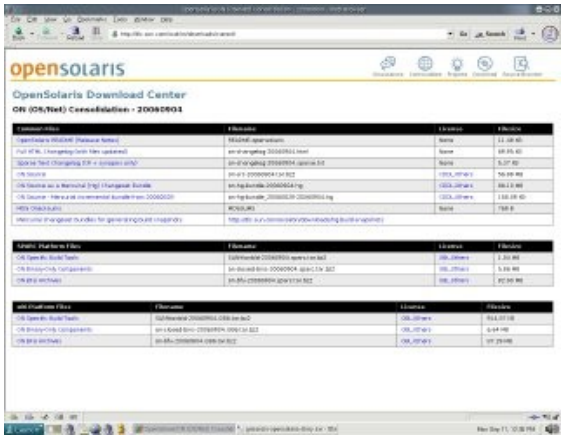
- **The most important code at Sun:** Solaris kernel, networking, libraries, commands.
- Top Solaris features: DTrace, Zones, ZFS ...
- 10 million lines, 35k files at main launch.
- Builds with free tools: gcc, Sun Studio.
- Code refreshed every week.

OpenSolaris Source Tomorrow

- More code, workflow tools, build/test farms, admin/install, docs, man pages ...
- **SCM: Main gate moves external.**
- Code refreshed every day.



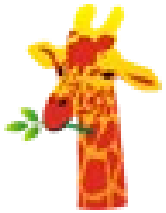




Java™

built on NetBeans

Creating a Market



Powered by Nexenta OS

ZFS port: FUSE/Linux

ZFS port: FreeBSD

solaris™

Sun's Supported Solaris Products and Updates

Sun's Solaris Express CR Solaris Express

Polaris

marTux Distribution

DTrace port: FreeBSD

DTrace port: Mac OS X

SCHILLIX

OpenSolaris based Distribution

runs from CD

opensolaris™

Nevada Source Gate

BeleniX

Products, Ports, Distributions

A Simple Strategy

Transforming a market into a community using open communications and open development

- **Engineers** driving strategy and building the community.
- Engaging Solaris communities, developers, sys admins, customers, ISVs, partners, universities, users ...
- Technical experience, personal expression, and voice are all important to build a community based on merit and reputation.

A Little Pilot

Started Small

- Mandate: **get the code out early.**
- Source analysis, license, business, governance, development.
- 3 months of feedback sessions begin with engineers at ISVs, partners, customers, universities, OSS communities.

Kept it Small, Let it Grow

- **Conversations** led to pilot recruiting -- BOFs, keynotes, group & 1/1 meetings, OSCON, LISA, USENIX, KDE, JDS, Gnome, Apache, OO.o, x86, Blastwave, SunFreeware, Gentoo.
- 9 months, NDA, 145 people, 10 lists, 7K messages, buildable code, tools, docs.
- Results: dev/gov models began, exec sessions, distros/ports, board election, fixed bugs, tested builds, wrote articles ...

A Community Launch

An Open, Rolling Launch

- Early 04: Sun execs talk openly about opening Solaris.
- June 04: Jonathan Schwartz announces formal intent in China.
- Engineers talking OpenSolaris in keynotes, BOFs, blogs and Pilot community encouraged to blog (even with NDA).
- January 05: First site opened, DTrace released, announced license and intention to form board. 7K sign up.
- April 05: Board members announced. First meeting held.
- **June 05: Open. 150+ engineers blog tours of code**.

Keep Launching

- Post launch: 20+ releases (9 Solaris consolidations)
  OpenGrok, ZFS, BrandZ, JDS, NWS, SFW, 8 docs books, X system, Companion CD, new projects, and parts of globalization, DevPro, and install packaging tools ...

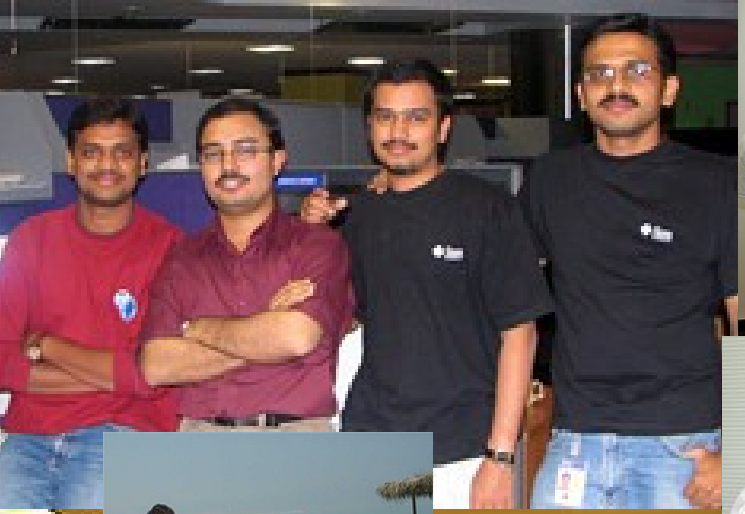
A Community Snapshot

In Just 1 Year

- 16,000 community members.
- 46 projects, 40 communities, 38 user groups
- Hundreds of blogs, active IRC community, millions of web visitors.
- **Charter, Governance, Development Process, SCM**
- OpenSolaris taught at 40+ universities with course materials on opensolaris.org. Translations underway.
- Contributing code; creating ports/distros; learning the code; influencing gov/dev proposals and design processes, engaging in technical conversations, presenting at conferences ...

The Future ...

- Planning for diversity – developers, admins, users, writers, testers, professors, students ...



Sun

インストールメディアの入手方法
メディアキット
(標準価格 7,500 円)
DVD & CD
(SPARC, x86/x64)
ダウンロード(無償)
DVD & CD イメージ
(SPARC, x86/x64)
http://jp.sun.com/solaris/
雑誌・解説本付録
DVD (x86/x64)

Research Conference

Sun
地球最強システム
ファイルシステム
ZFS

Opensolaris
OpenSolaris Corrects Work

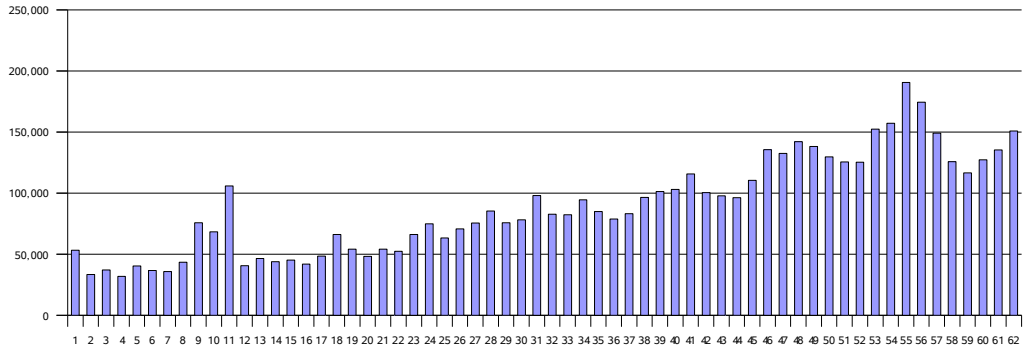
ds on Lab
ッション会場5

OpenSolaris·BR

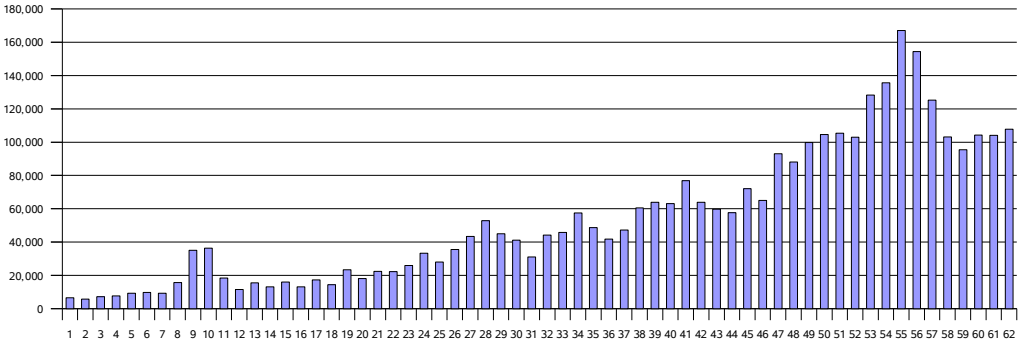
Everyone's Talking ...

150 Mail Lists & Jive Discussion Forums

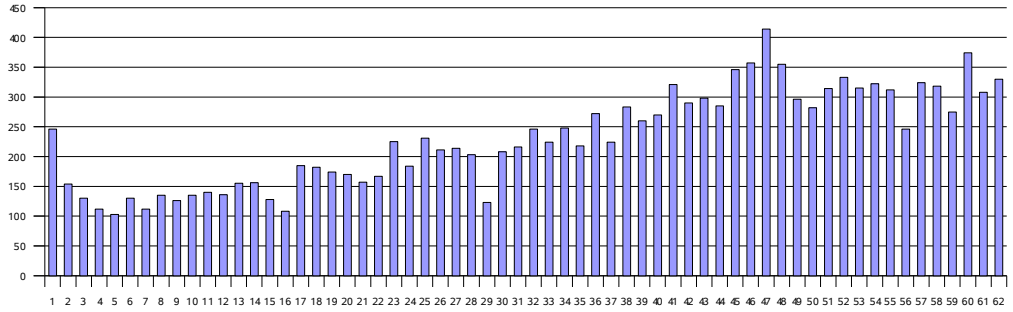
Total Views: 6 million



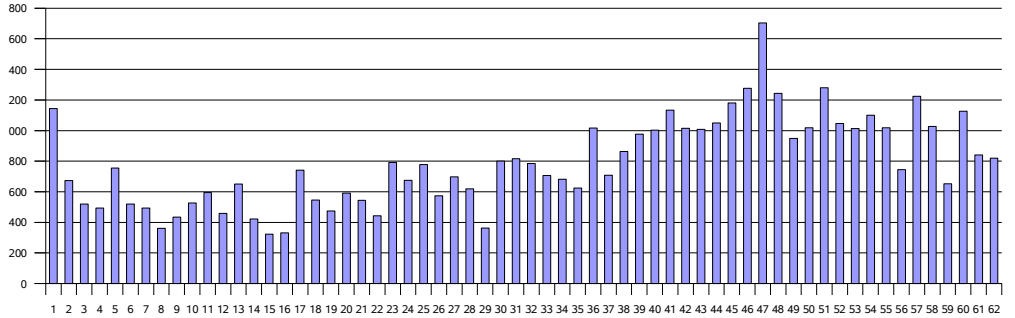
Unique Visitors: 3.4 million



Topics: 14,300

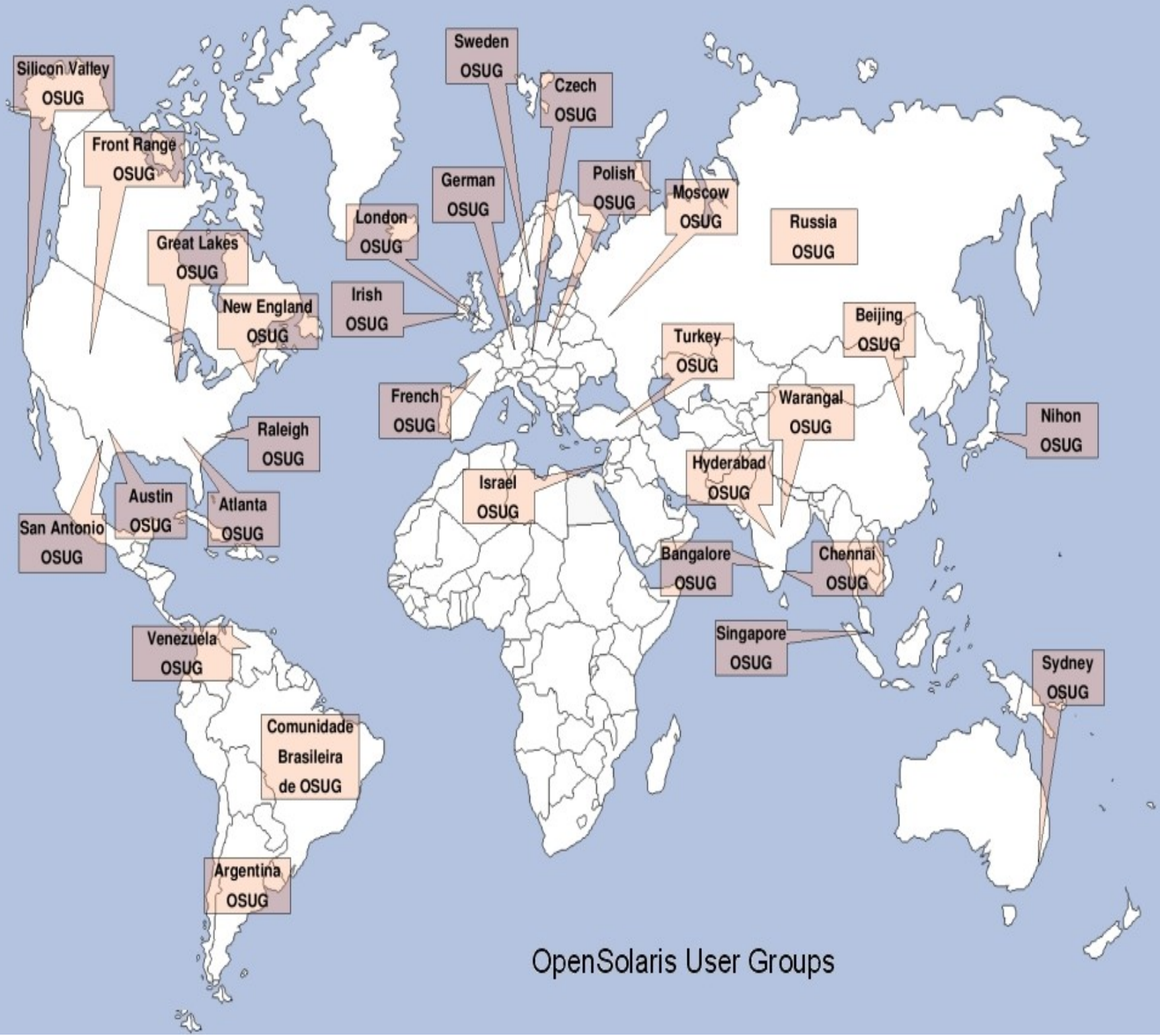


Messages: 53,000



Countries visiting the forums since launch

Countries visiting the website since launch


Silicon Valley OSUG
Front Range OSUG
Great Lakes OSUG
New England OSUG
Raleigh OSUG
Austin OSUG
Atlanta OSUG
San Antonio OSUG
Venezuela OSUG
Comunidade Brasileira de OSUG
Argentina OSUG
Sweden OSUG
Czech OSUG
German OSUG
London OSUG
Irish OSUG
Polish OSUG
Moscow OSUG
Russia OSUG
Beijing OSUG
Turkey OSUG
French OSUG
Warangal OSUG
Nihon OSUG
Hyderabad OSUG
Israel OSUG
Bangalore OSUG
Chennai OSUG
Singapore OSUG
Sydney OSUG
OpenSolaris User Groups

opensolaris

Distributions, Communities, Projects and Code Releases

The First Year

SCHILLIX

- Distribution
- Community
- Project
- Code Release

- SchilliX
- SolarisExpress
- Academic and Research
- Community Advisory Board (CAB)
- Documentation
- DTrace
- Internationalization and Localization
- Marketing
- Modular Debugger (MDB)
- Networking
- Nevada Development
- NFS
- Observability
- Performance
- Service Management Facility (smf(5))
- Solaris Volume Manager
- Testing
- Tools
- User Groups
- Unix FileSystems (UFS)
- Desktop
- X Window System
- Security
- Zones
- OpenSolaris Printing
- Fault Management
- ChineseUsers
- OS/Net Consolidation
- BeleniX
- Xen
- NexentaOS
- Laptop
- ZFS
- Approachability
- Device Drivers
- BrandZ
- JDS Consolidation
- DevPro Consolidation: SCCS, make(binaries)
- OpenGrok Project
- ZFS Project: integrated into ON build 27
- BrandZ Project
- JDS Consolidation
- Architecture Process and Tools
- Systems Administrators
- Network Storage Consolidation
- GNU Solaris
- Visual Panels
- Games on OpenSolaris
- Polaris (Power PC)
- Appliances
- Storage
- Ethernet bridge module for Solaris
- OpenSolaris Content Project
- Korn Shell 93 integration/migration project
- Network Auto-Magic
- ZFS on disk encryption support
- Key Management Framework
- Dtrace Provider for NFSv4 project opened
- OpenGrok
- Muskoka: An open repository for OpenSolaris
- Companion - /opt/sfw: Free and Open Source software
- Duckwater: Simplified name services management
- mart-UX
- Nemo: A Framework for High-Performance Networking
- Reno - Login Process
- Sparks: name service switch/nscd enhancements
- Resource Management
- Crossbow: Network Virtualization and Resource Control
- Multiprotocol project launched
- Quagga Routing Protocol Suite Project Launched
- SFW Nevada
- Tamarack: Removable Media Enhancements
- Fuse onSolaris
- SVR4 Packaging
- ClearView Network Interface
- Solaris iSCSI Target
- Winchester: Schema mapping
- Immigrants
- CIFS Client
- Installation and Packaging
- Chime Visualization Tool for DTrace
- Documentation Consolidation: 2 manuals
- DevPro Consolidation:libmtsk (binaries)
- Documentation Consolidation: 2 manuals
- SFW Consolidation
- X Window System Consolidation
- DevPro Consolidation: C version mediaLib
- Install Consolidation: packaging tools
- DevPro Consolidation: libm
- Globalization Consolidation

14 Jun | 28 Jun | 12 Jul | 26 Jul | 09 Aug | 23 Aug | 06 Sep | 20 Sep | 04 Oct | 18 Oct | 01 Nov | 15 Nov | 29 Nov | 13 Dec | 27 Dec | 10 Jan | 24 Jan | 07 Feb | 21 Feb | 07 Mar | 21 Mar | 04 Apr | 18 Apr | 02 May | 16 May | 30 May

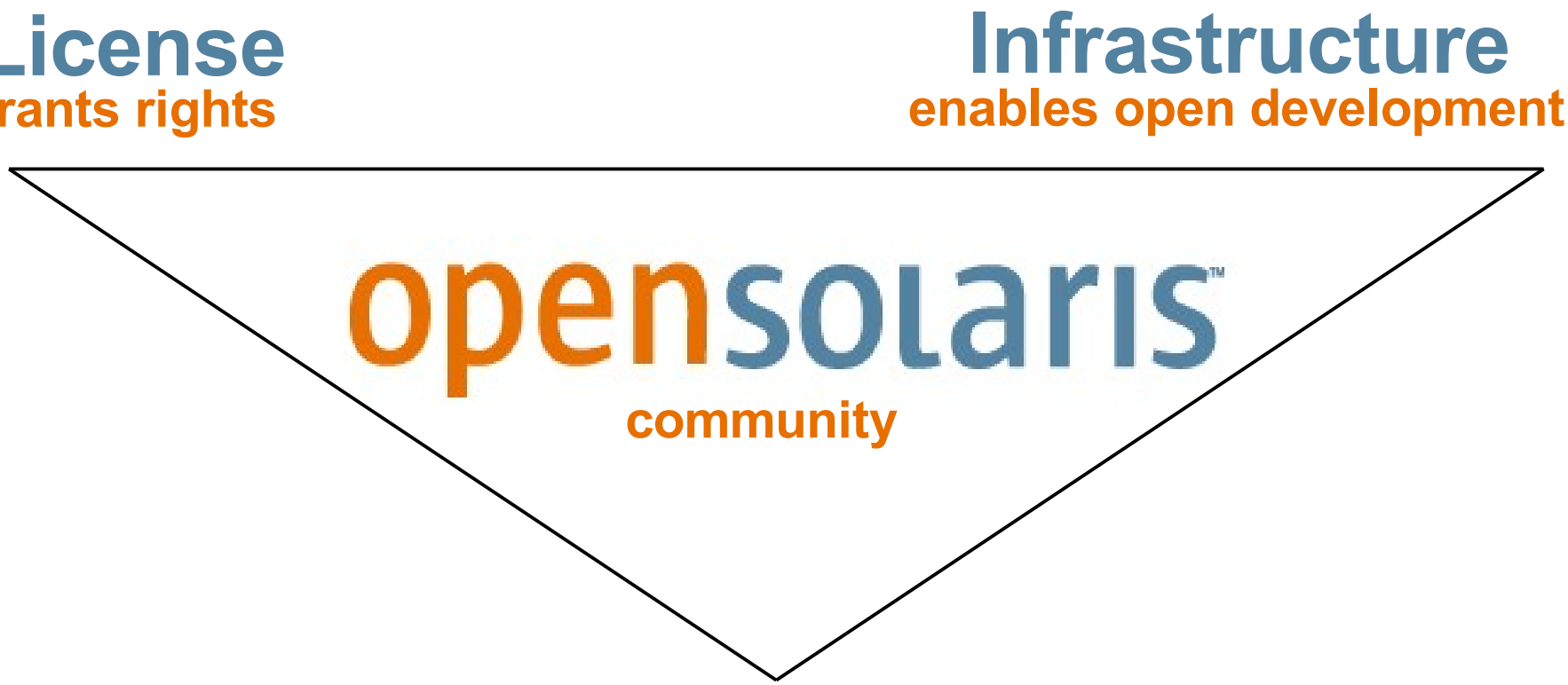
Early Contributions

Presentations
University Courses
Articles, Books
Five Distributions
DTrace Port: FreeBSD
Documentation
Gentoo Portage Port
DTrace Port: Mac OS
ZFS Port: FUSE/Linux
Google SoC Participation

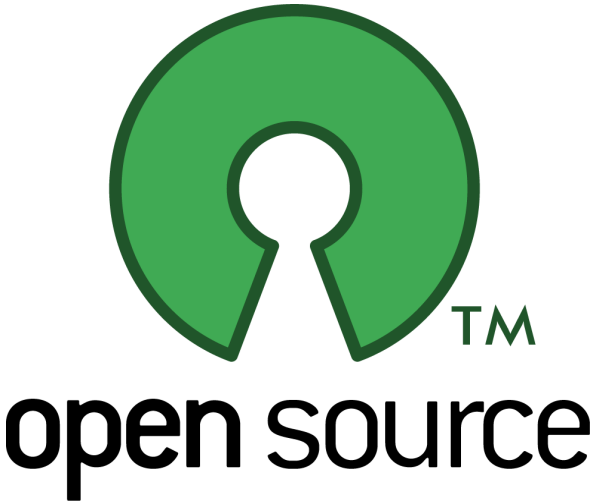
Screencasts
Podcasts, Evangelism
Graphics, Photos
PowerPC Port
DTrace Scripts
OpenSolaris on iMac
DTrace Port: FreeBSD
Design Specifications
ZFS Port: FreeBSD
Conferences, UG's

Source code contributed to projects and integrated into kernel via request-sponsor program

Weaving it all Together



An Open License



Common Distribution and Development License

- All licensing strategies considered, OSI approval a must.
- CDDL the best option for Solaris, perfect middle ground.
- Needed to be mixable with other licenses.
- Able to help **grow the OpenSolaris community.**

A Representative Board

OpenSolaris Governing Board

- Pilot election: R. Teer, A. Hopper elected after two months of nominations, discussion, voting.
- Sun CTO Office: S. Phipps, Chief Open Source Officer.
- Sun Solaris: C. Dik, Sr. Staff Engineer, security expert.
- OSS Community: R. Fielding, Co-founder, Apache.

Governance Based on Meritocracy

- **Charter ratified – fully enfranchising the community.**
- Governance being developed in the open: board roles and elections, decisions, conflict resolution, community membership, responsibilities, communities, projects, collaboration, meritocracy, transparency, contributions ...

Open Infrastructure

Long Term: Open Development Model

- **Opening development process and infrastructure.**
- Full transparency with putbacks from inside/outside the firewall.
- ARC history cases published.
- Non-Sun community members participating on review boards and in all phases of development.

First Step: Sun Sponsors

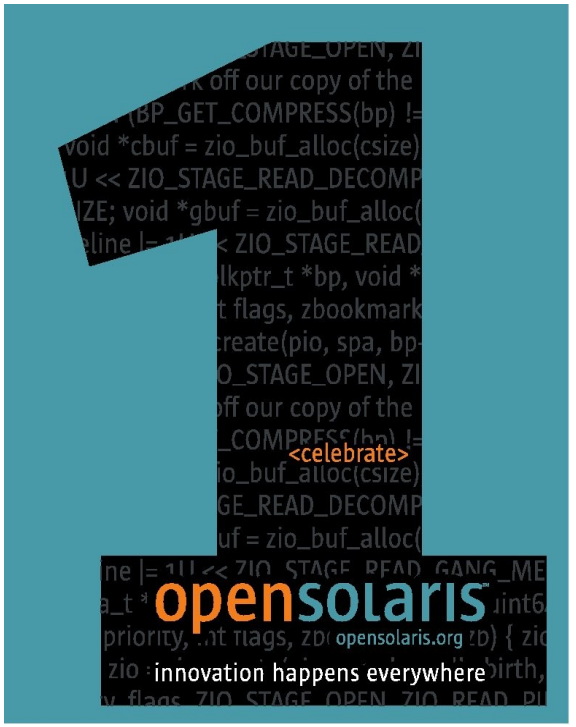
- 52 Sun Solaris engineers and 10 documentation writers working the process internally with 30 non-Sun contributors.
- 587 bugs reported, 211 submissions, **120 sponsored putbacks** with 52 in progress, 4 awaiting sponsor, 35 closed.
- First contribution 3 days after launch; integrated 2 weeks later!

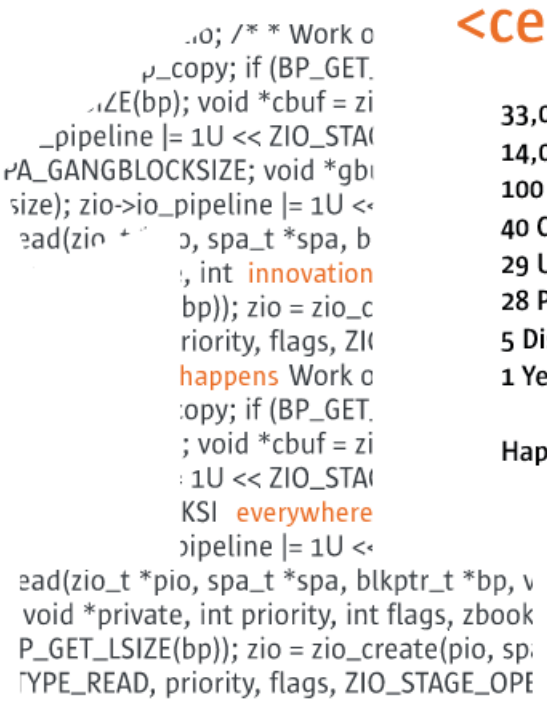
OpenSolaris Values

Performance, Availability, Security, Manageability,
Reliability, Compatibility, Serviceability,
Platform Neutrality

opensolaris™

Honesty, Openness, Independence,
Transparency, Quality, Respect

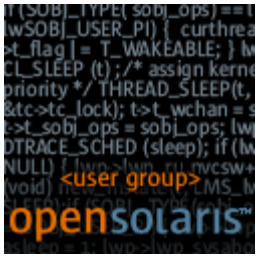


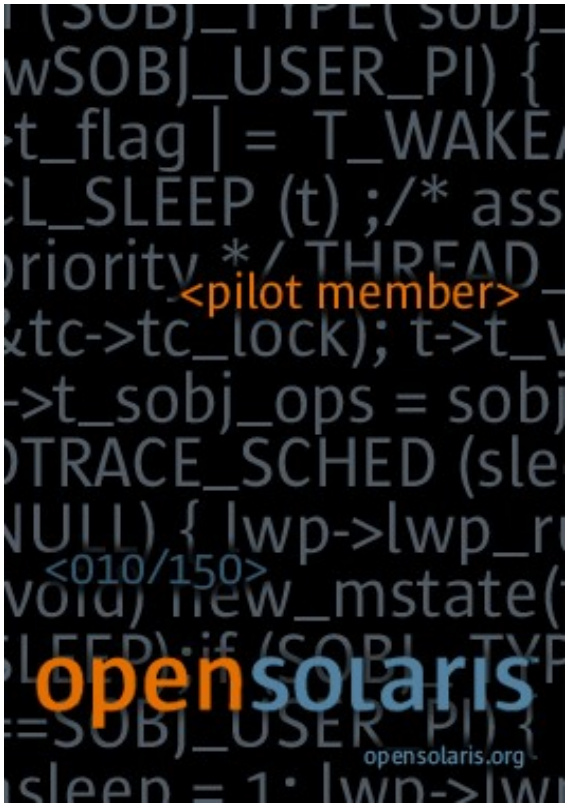


<celebrate>

33,000 Downloads
14,000 Members
100 Contributions
40 Communities
29 User Groups
28 Projects
5 Distributions
1 Year

Happy Anniversary!





Growing Support ...

The project has been extremely successful in keeping to the original Solaris ethos while developing a strong OpenSolaris community.-- *Peter Tribble, OpenSolaris developer, ZDNet, 5/13/06*

The OpenSolaris community is thriving.

-- *Stephen O'Grady, industry analyst, Redmonk, 3/2806*

The biggest, most obvious, and generally in your face, strategic enabler here is Sun's community development license. -- *Paul Murphy, ZDNet Columnist, 6/21/06*

Jonathan Schwartz was telling people that all Sun software would be open source, and the OpenSolaris folks were showing us how it could be done.

-- *Dave Johnson, Java developer, 5/20/06*

... and More Support

Solaris has attracted a vigorous developer community.

-- *Charles Babcock, InformationWeek, 4/25/06*

The OpenSolaris community has been highly successful. It is a direct conversation between Sun and its customers and partners. -- *Stephen Walli, 4/26/06*

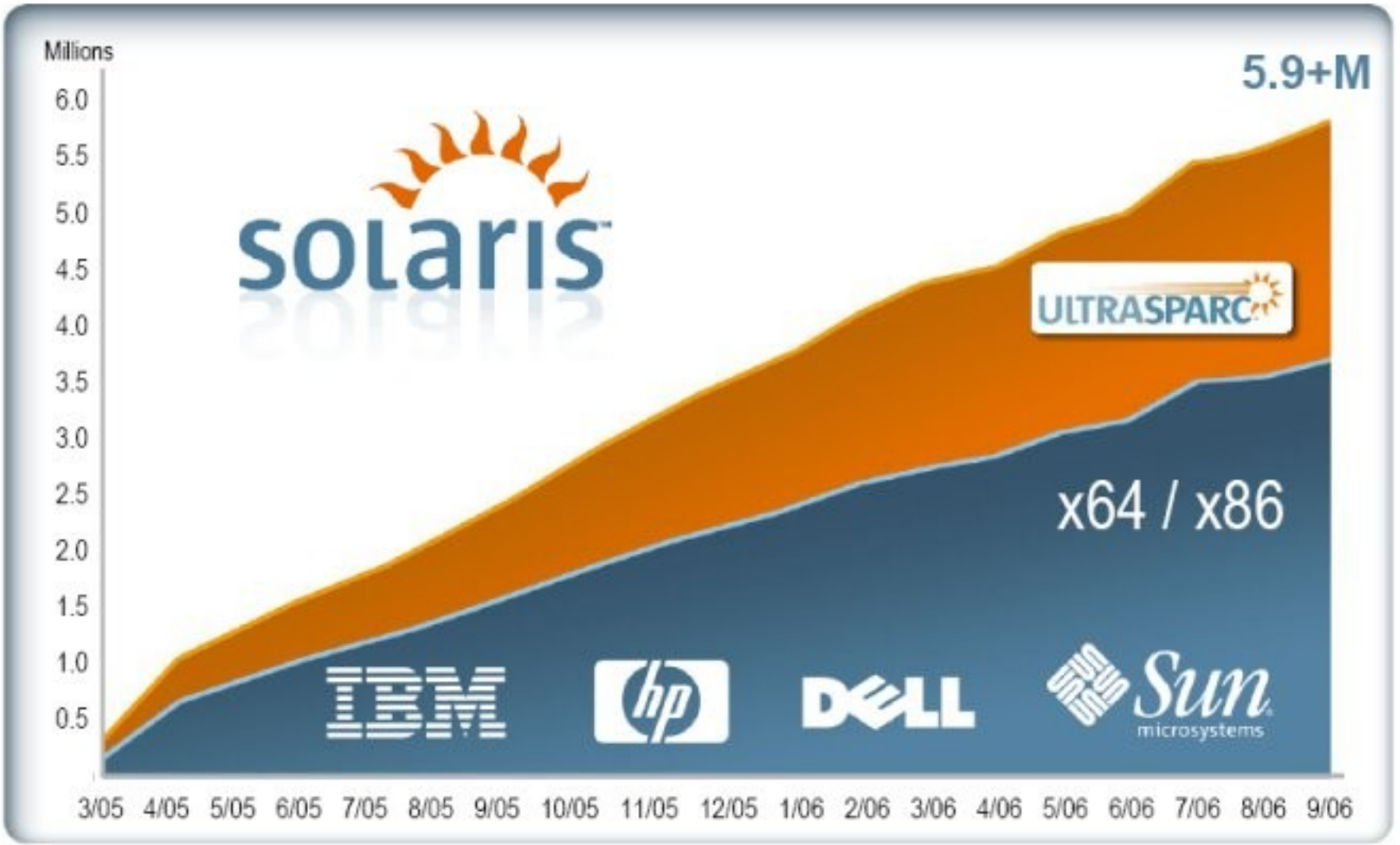
The move to OpenSolaris has been a good one.

-- *Bill Zeitler, IBM's systems/technology group, in Cnet, 4/25/06*

They're pushing the envelope, said Tony Iams, an analyst at Ideas International, about Sun's aggressive research and development efforts for Solaris. -- *Cnet, 4/25/06*

They ... have the world's fastest growing open source community. -- *Paul Murphy, ZDNet, 4/1706*

Solaris 10 OS License Growth



Cumulative Data

Join us and Participate

OpenSolaris Code

We have great code, and we are proud of that code.
But there's always room to contribute new code ...

OpenSolaris Community

The community leads this effort in every important way,
and we welcome your participation ...

OpenSolaris Market

The community is building a market around this code,
and there are more opportunities than we can imagine ...

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открытый
வெளிப்படை

Thank you!

Jim Grisanzio
Engineering Community Manager, OpenSolaris
jim.grisanzio@sun.com | http://blogs.sun.com/jimgris/

photos: jim grisanzio, chandan, alan hargreaves, petrs,
joey guo, cyril plisko, moinak ghosh, simon phipps, lisa week
user group and project charts: patrick finch
“open” artwork and icons: chandan: http://blogs.sun.com/chandan
“open(2) artwork: tim foster: http://blogs.sun.com/timf/
distros artwork: chandan: http://www.flickr.com/photos/chandanlog/76005188/

SOME RIGHTS RESERVED

Additional Information

OpenSolaris Resources

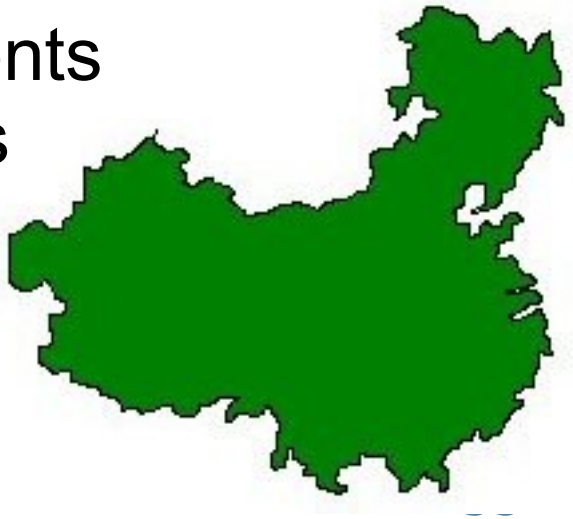
opensolaris http://opensolaris.org/os/
development process (draft) http://opensolaris.org/os/community/onnv/os_dev_process/
source code management http://opensolaris.org/os/community/tools/scm/
governance (draft) http://opensolaris.org/os/community/cab/governance/
charter http://opensolaris.org/os/community/cab/charter/
community http://opensolaris.org/os/communities/
projects http://opensolaris.org/os/projects/
code http://opensolaris.org/os/downloads/
code browser http://cvs.opensolaris.org/source/
contributing code http://opensolaris.org/os/communities/participation/
code contributions http://opensolaris.org/os/bug_reports/request_sponsor/
licensing opensolaris http://opensolaris.org/os/licensing/ & http://sun.com/cddl/
licensing sun http://www.sun.com/software/opensource/whitepapers/free_open_licensing.pdf
open source at sun http://sun.com/opensource/ & http://sunsource.net/
roadmap http://opensolaris.org/os/about/roadmap/
advisory board http://opensolaris.org/os/community/cab/
opensolaris blogs http://opensolaris.org/os/blogs/
sun blogs http://blogs.sun.com/
opening day blogs http://opensolaris.org/os/blogs/?startDate=2005-06-14
discussions http://www.opensolaris.org/jive/index.jspa
presentations http://opensolaris.org/os/community/os_user_groups/os-presentations/
sun solaris http://sun.com/solaris/
community photos http://www.flickr.com/photos/tags/opensolaris
community stats http://opensolaris.org/os/community/marketing/metrics/latest/
community newsletter http://opensolaris.org/os/project/content/newsletter/
open source projects sun contributes to http://www.sun.com/software/opensource/learnmore.jsp
sun in open source http://sunsource.net & http://sun.com/opensource
irc.freenode.net #opensolaris

Nihon OpenSolaris Community

Opportunities

- Translations and Original Content:
  web site, starter kit, university education materials, articles, books ...
- Collaborate with other open source communities
- Establish relationships with government users
- Participate on opensolaris.org forums
- Collaborate with Sun customers and partners
- Engage university professors and students
- Start a Japanese OpenSolaris User Group
- Initiate a development project for an **open** Japanese Input Method
- Create new ports and distributions

China OpenSolaris Community

Opportunities

- Translations and Original Content:
  web site, starter kit, university education materials, articles, books ...
- Collaborate with other open source communities
- Participate on opensolaris.org forums and lists
- Establish relationships with government users
- Collaborate with Sun customers and partners
- Engage university professors and students
- Grow Shanghai and Beijing user groups
- Initiate a development project for an **open** Chinese Input Method?
- Create new ports and distributions