



# Open Solaris Source Juicer

**Brian Nitz**  
Solaris Engineering  
Sun Microsystems



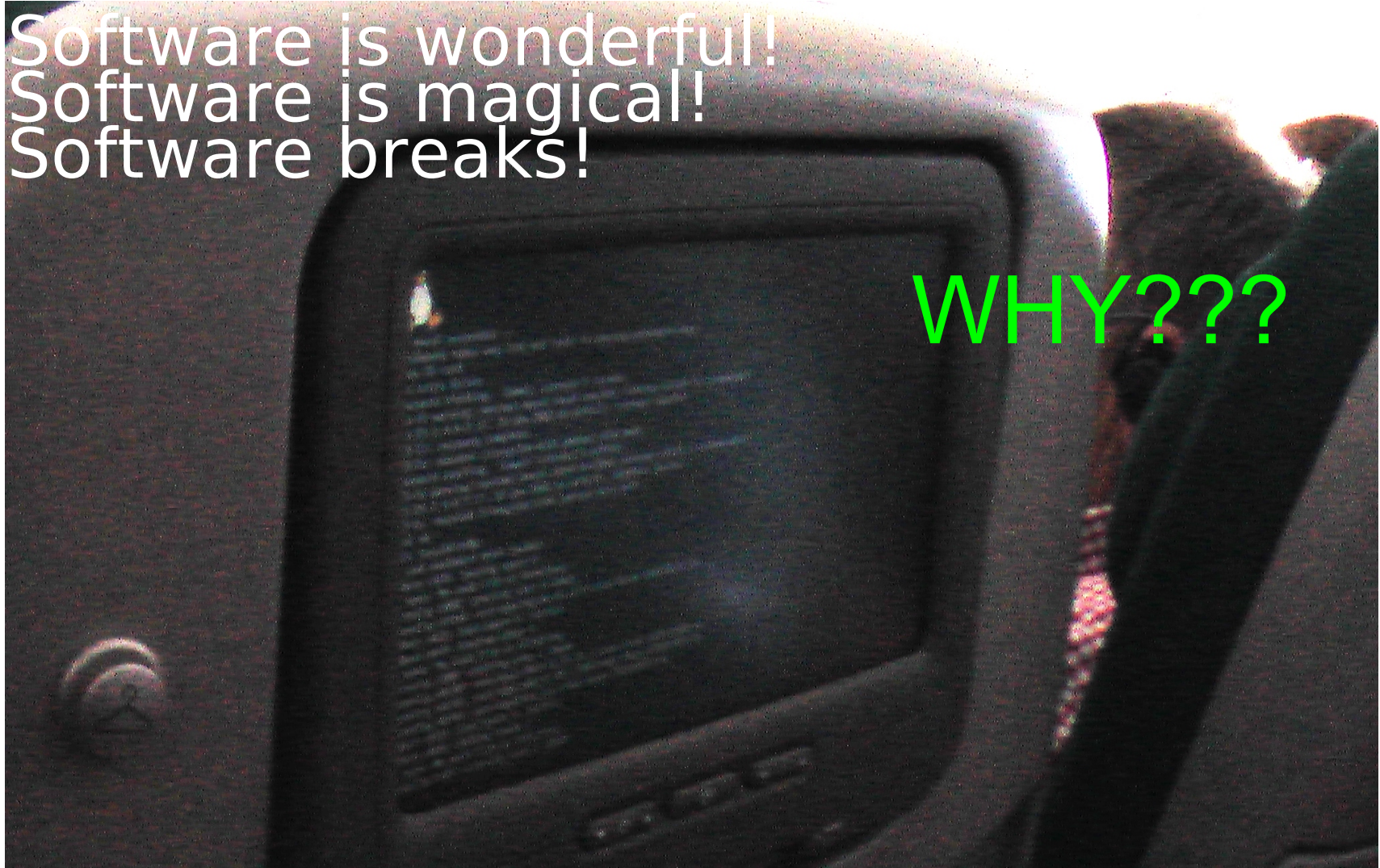
# Software!

Software is wonderful!  
Software is magical!

# Software!

Software is wonderful!  
Software is magical!  
Software breaks!

WHY???



# Software!

Software is wonderful!  
Software is magical!  
Software breaks!

WHY???

(well, actually it works for me...)



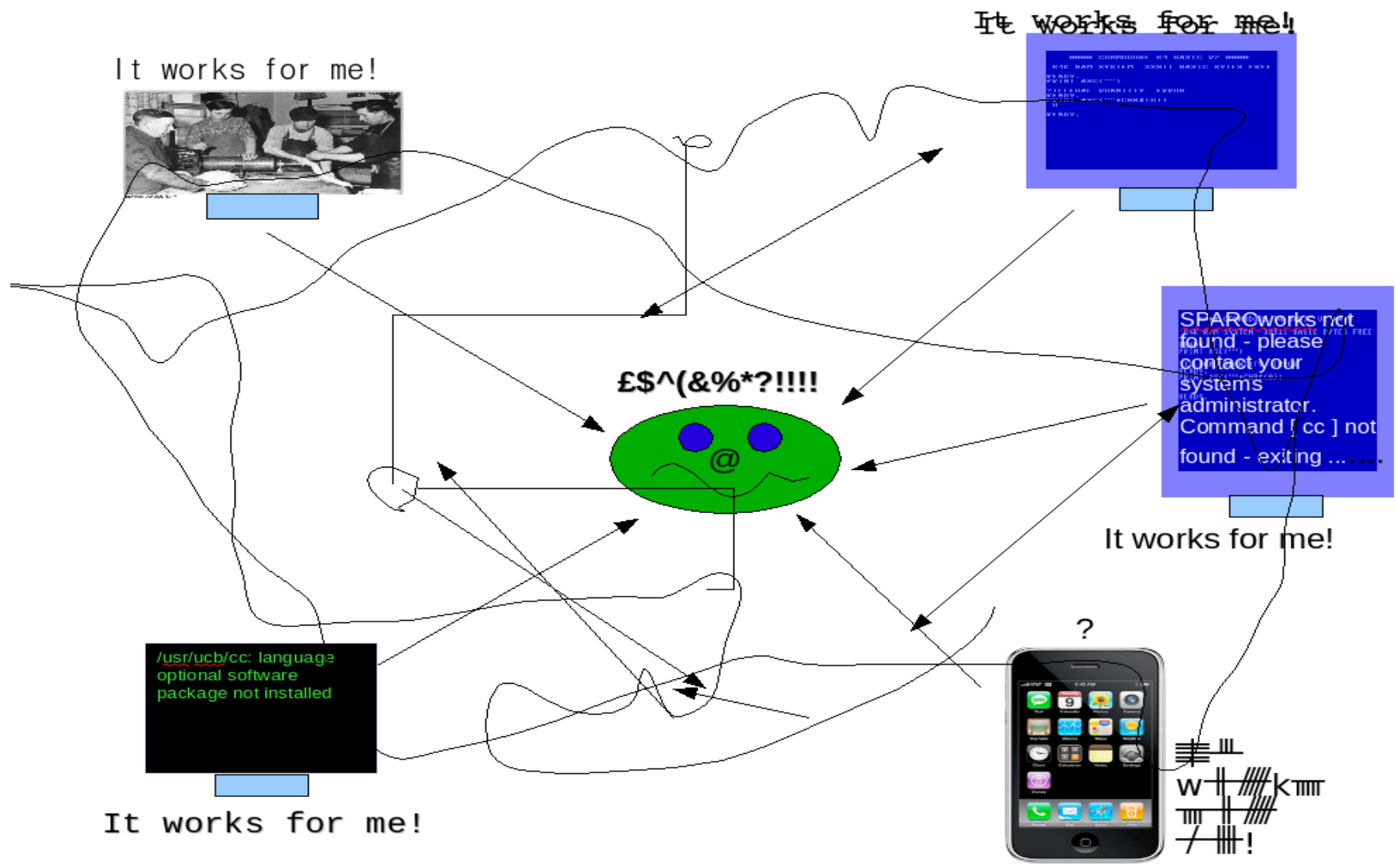
# What's so different about developers?



# Software development process



# Actually it's slightly more complicated



# Actually it's slightly more complicated

```
117
118
119 It works for me!
120 for (page = memstart; page; page = page->next) {
121     for (block = memstart; block; block = block->next) {
122         if (block->status == FREE && block->size >= size)
123             found = 1;
124     }
125     if (!found)
126         Need to allocate a new page
127     if (!page) {
128         size_t totsize = size + HDR_PAGE;
129         size_t totpage = align(totsize, pagesize);
130     }
131     if ((page = (struct page *) mmap(totpage,
132         PROT_READ|PROT_WRITE, MAP_SHARED | MAP_PRIVATE,
133         == MAP_FAILED)
134         return (0);
135     }
136     page->next = memstart;
137     memstart = page;
138     page->size = totpage;
139     block = page->block;
140     block->next = 0;
141     block->status = FREE;
142     block->size = totpage - HDR_PAGE;
143     block->page = page;
144 }
145
146 split(block, size);
147
148 block->status = BUSY;
149 return (&block->memstart);
150 }
151
152 void *
153 realloc(void *ptr, size_t size)
154 {
155     struct block *block;
156     size_t osize;
157     void *newptr;
158
159     (void) mutex_lock(&block);
160     if (ptr)
161         osize = block->size;
162     if (osize < size)
163         /usr/ucb/cc: language optional software package not installed
164     newptr = malloc(size);
165     if (newptr)
166         memcpy(newptr, ptr, osize);
167     free(ptr);
168     block->size = size;
169     return (newptr);
170 }
171
172 It works for me!
173
174 * Join block with next one if it is free
175 */
176 if (block->next && block->next->status == FREE) {
177     block->size = block->next->size + HDR_BLOCK;
178     block->next = block->next->next;
179 }
```

```
23 -h|--help)
24 usage
25 exit 0;;
26 m|--merge)
27 MERGE_BASE_COPYRIGHT=1;;
28 -t|--type)
29 shift
30 case "$1" in
31     desktop-*)
32         TYPE=$TYPE_DESKTOP_OTHER;;
33     gnome|GNOME)
34         TYPE=$TYPE_GNOME_OTHER;;
35     *)
36         TYPE=$TYPE_ASFILE;
37     *)
38         echo "please use the correct type, AVAILABLE_TYPES" 1>&2
39         exit 1;
40     esac
41     /* mm0 en X contient (idem pour Y)
42
43     * 1111 si prevXY > px
44     * 0000 si prevXY <= px */
45 #ifdef STRICT_COMPAT
46     "#1 \n\t movq    %%mm1, %%mm2" ?
47     "#1 \n\t punpckhdq %%mm2, %%mm2"
48     "#1 \n\t punpckldq %%mm1, %%mm1"
49     "#1 \n\t pand    %%mm2, %%mm0"
50     "#1 \n\t movq    %%mm1, %%mm1"
51     "#1 \n\t punpckhdq %%mm2, %%mm2"
52     "#1 \n\t punpckldq %%mm1, %%mm1"
53     "#1 \n\t pand    %%mm2, %%mm0"
54 #endif
55     "#1 \n\t pand %%mm1, %%mm0"
56     "::[prevXY] "m" (prevXY));
57     "#1 \n\t pand %%mm1, %
58     %%mm0" /*
```

It works for me!



```
71 print STDERR " Updating $logname from svn
72 repository.\n";
73 open ERRORS, "svn update $logname |" or die "Th
74 cvs update of ChangeLog failed: $OS_ERROR.\n";
75 }
76 print STDERR " $ARG" while <ERRORS>;
77 close ERRORS;
78 # For each file, build a list of modified lines.
79 # Use line numbers from the diff.
80 my %changed_line_ranges;
81 my $file;
82 if ($command eq "cvs")
83 {
84     print STDERR " Running
85     open DIFF, "cvs -fq diff -N $file";
86     while (<DIFF)
87     {
88         if (/^diff -N .* \n@@.*@@ \n/)
89         {
90             my ($line, $file) = ($1, $2);
91             $changed_line_ranges{$file} = $line;
92         }
93     }
94 }
```

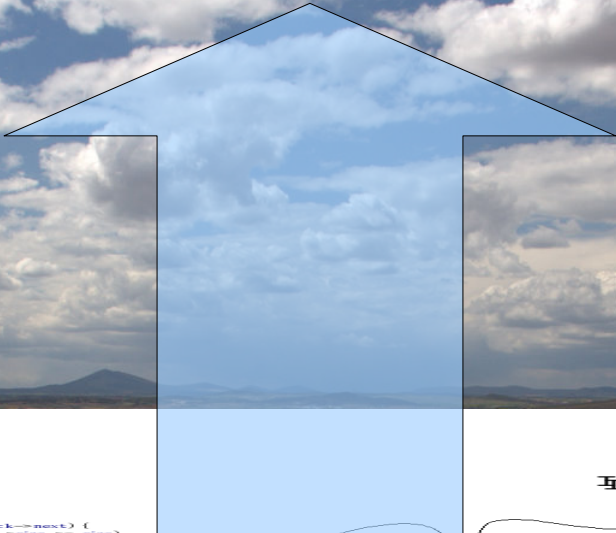
SPAR works not found - please contact your systems administrator. Command [cc] not found - exiting .....

It works for me!





# Could we put some of this into the cloud?



117 It works for me!  
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```
CREATE_COPYRIGHT=1;;  
-h|--help  
usage  
exit 0;;  
merge  
MERGE_BASE_COPYRIGHT=1;;  
TYPE  
case "$1" in  
desktop-95%/*&%*?!!!!  
TYPE=95%*  
gnome,gnome  
tjds,tds  
*)  
echo "Please use the correct type $1" 1>&2  
esac  
1111 s1 prevXY > px  
0000 s1 prevXY <= px ;;  
#ifdef STRICT_COMPAT  
"1 \n\t movq %ymm1, %ymm2"  
"1 \n\t punpckhqdq %ymm1,  
"1 \n\t punpckldq %ymm1,  
"1 \n\t pand %ymm2, %ymm0"  
"1 \n\t movq %ymm1, %ymm2,  
"1 \n\t punpckhqdq %ymm2,  
"1 \n\t punpckldq %ymm2,  
"1 \n\t pand %ymm2, %ymm0"  
"1 \n\t movq %ymm1, %ymm2,  
"1 \n\t punpckhqdq %ymm2,  
"1 \n\t punpckldq %ymm2,  
"1 \n\t pand %ymm2, %ymm0"  
partie qui borde  
[:prevXY] "m" (prevXY);  
"1 \n\t pand %ymm1, %
```

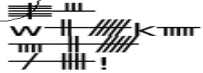
It works for me!

```
repository <>; print STDERR "Updating Slogname from svn  
71  
72  
73  
74  
75  
76  
77  
78 # For each file, build a list of modified lines.  
79 # Use line numbers from the diff to work out each diff.  
80 my $file;  
81 my $file;  
82 if ($command eq "cvs")  
83 {  
84  
85  
86  
87  
88  
89  
90  
91  
92  
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178  
179
```

found, please contact your systems Administrator. Command [cc] not found - exiting ... The cvs diff

optional software package not installed

It works for me

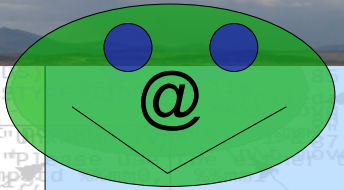
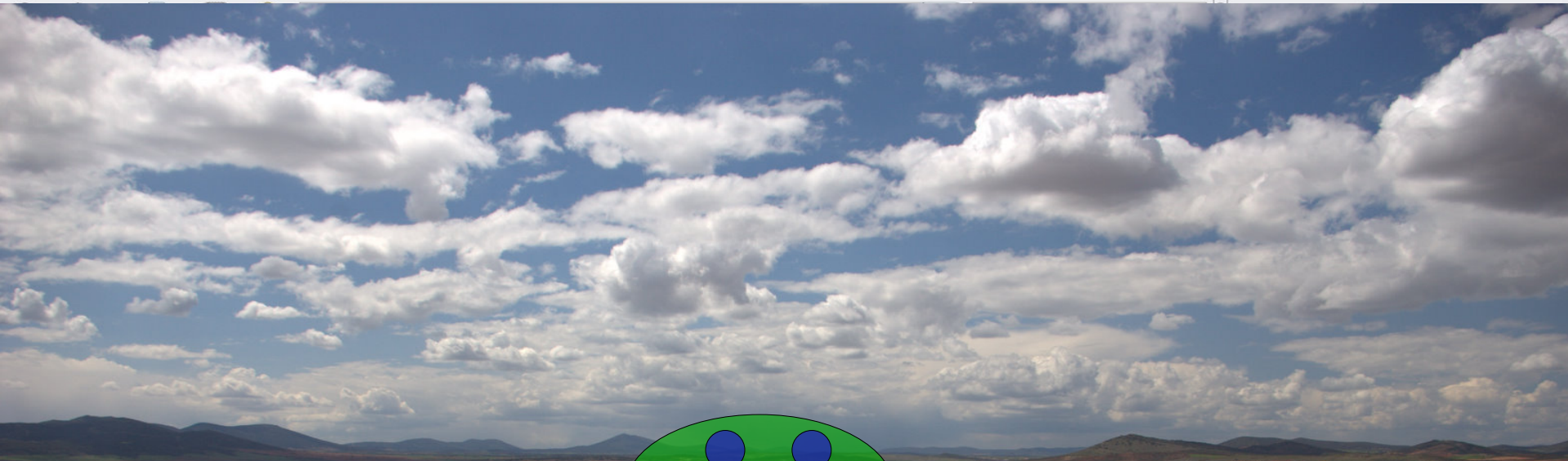


# Or, if you don't like clouds...



# Standardize the build environ behind a web service?

File Edit View History Bookmarks Tools Help



```
149 }
150 split(block, size);
151
152 block->status = BUSY;
153 return (&block->memstart);
154 }
155
156 void *
157 realloc(void *ptr, size_t size)
158 {
159     struct block *block;
160     size_t osize;
161     void *newptr;
162
163     (void) mutex_lock(&lock);
164
165     /usr/ucb/cc: language
166     optional software
167     package not installed
168
169     block = block->next;
170     while (block->status == BUSY)
171         block = block->next;
172
173     *Join block with next one if it is free
174     /*
175     if (block->next && block->next->status == FREE) {
176         block->size = block->size + HDR_BLOCK;
177         block->next = block->next->next;
178     }
179
35     typedef struct block {
36         TYPE;
37     } block_t;
38     /*
39     echo "compiling"
40     \n \x pcmp
41     esac
42
43     /* mm0 en X contient (idem pour Y)
44     * 1111 si prevXY > px
45     * 0000 si prevXY <= px */
46     #ifdef STRICT_COMPAT
47     "#1 \n\t movq    %%mm1, %%mm2" ?
48     "#1 \n\t punpckhdq %%mm2, %%mm2"
49     "#1 \n\t punpckldq %%mm1, %%mm1"
50     "#1 \n\t pand    %%mm2, %%mm0"
51     "#1 \n\t movq    %%mm1, %%mm1"
52     "#1 \n\t punpckhdq %%mm2, %%mm2"
53     "#1 \n\t punpckldq %%mm1, %%mm1"
54     "#1 \n\t pand    %%mm2, %%mm0"
55     #endif
56     "#1 \n\t pand %%mm1, %%mm0"
57     ::[prevXY] "m" (prevXY));
58     "#1 \n\t pand %%mm1, %"
59     %%mm0" /*
```

found - exiting ... the cvs diff

It works for me!



It works for me!

# What is OpenSolaris™ Source Juicer?

Community interface for contributing to OpenSolaris

<http://pkg.opensolaris.org/contrib>

Lower barrier for contribution

Community driven

Scalable

Two Components

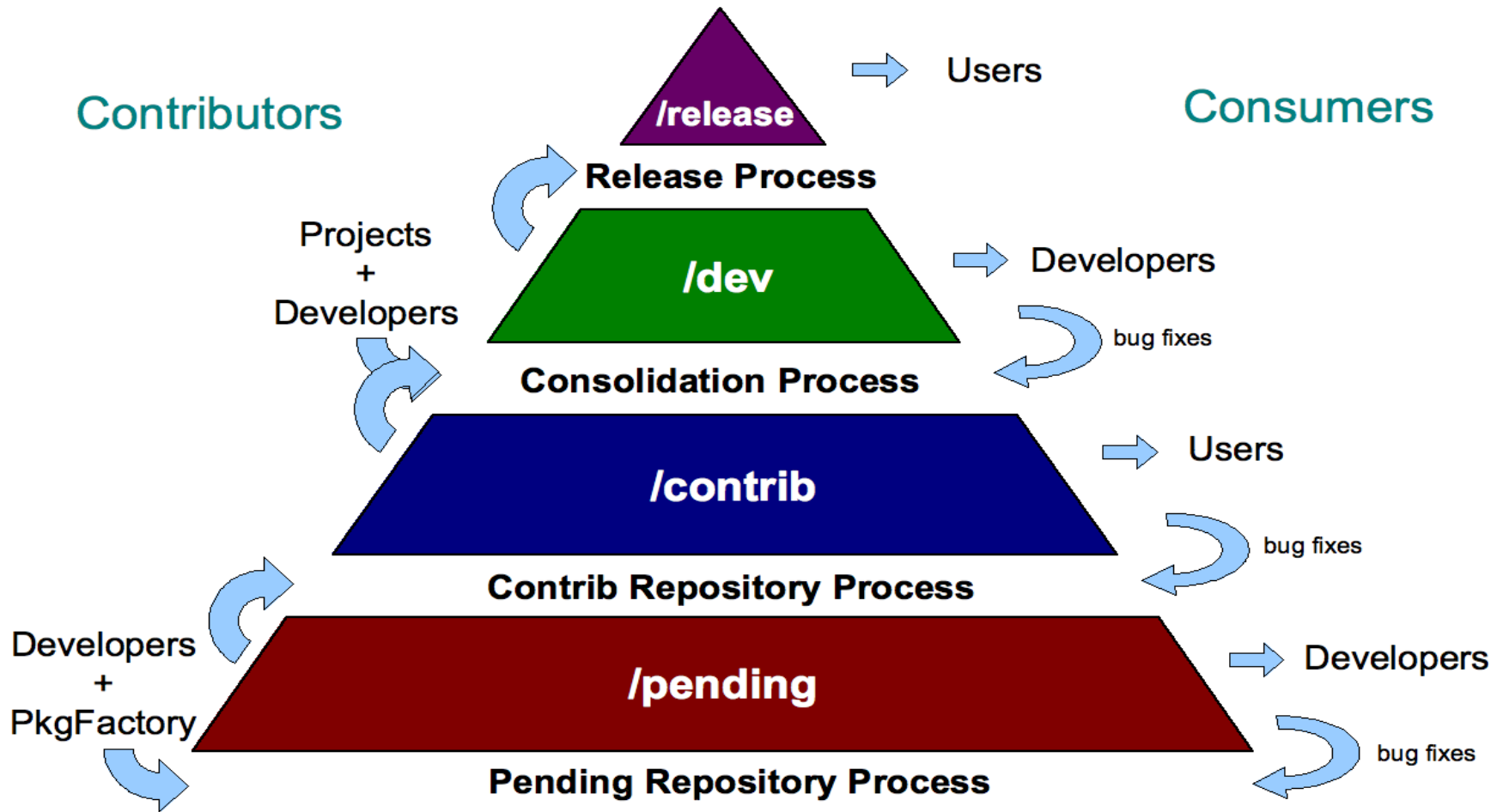
Web Application

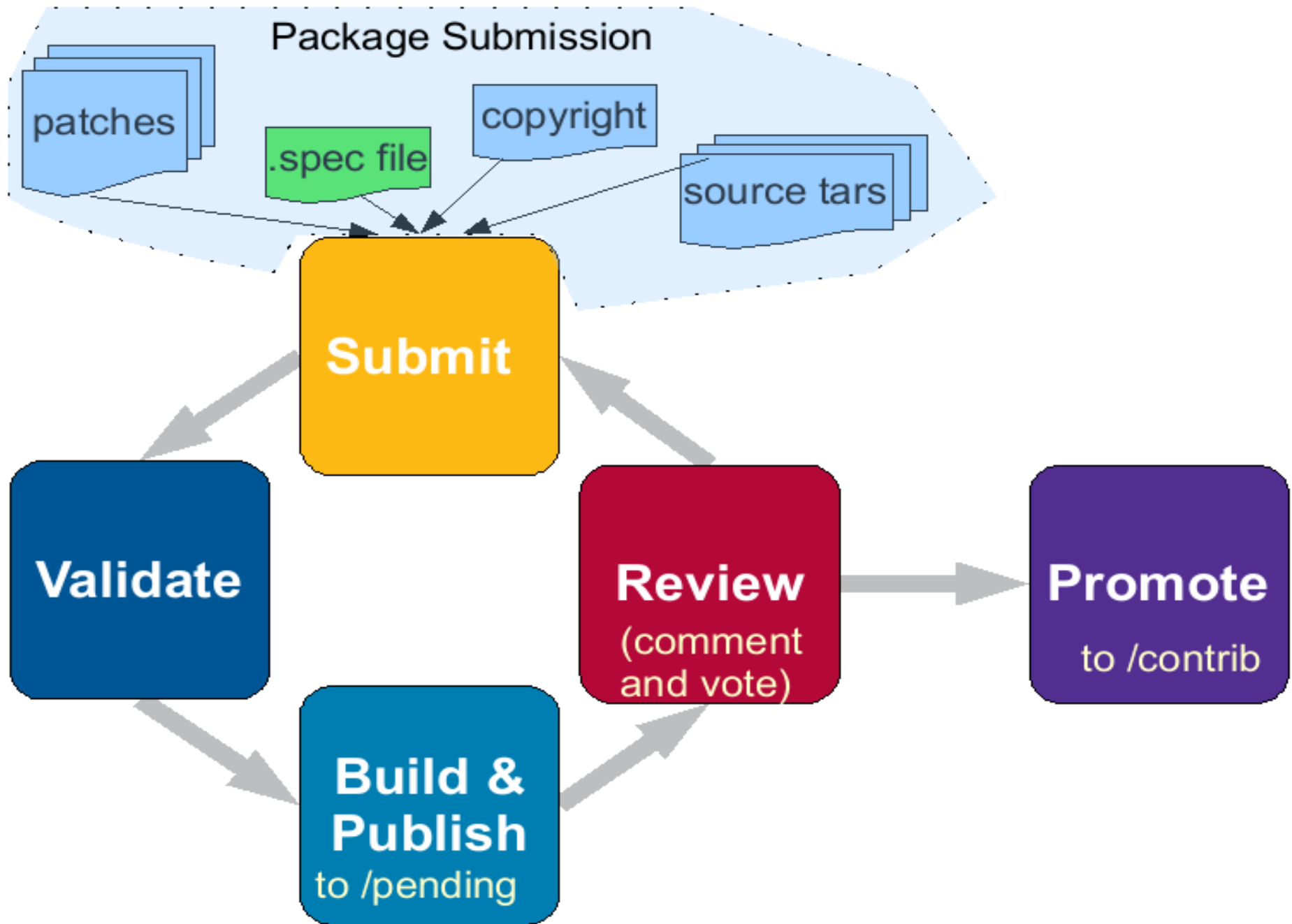
BuildGrid - Build system

Live right now!

<http://juicer.opensolaris.org>

# OpenSolaris Package Repositories

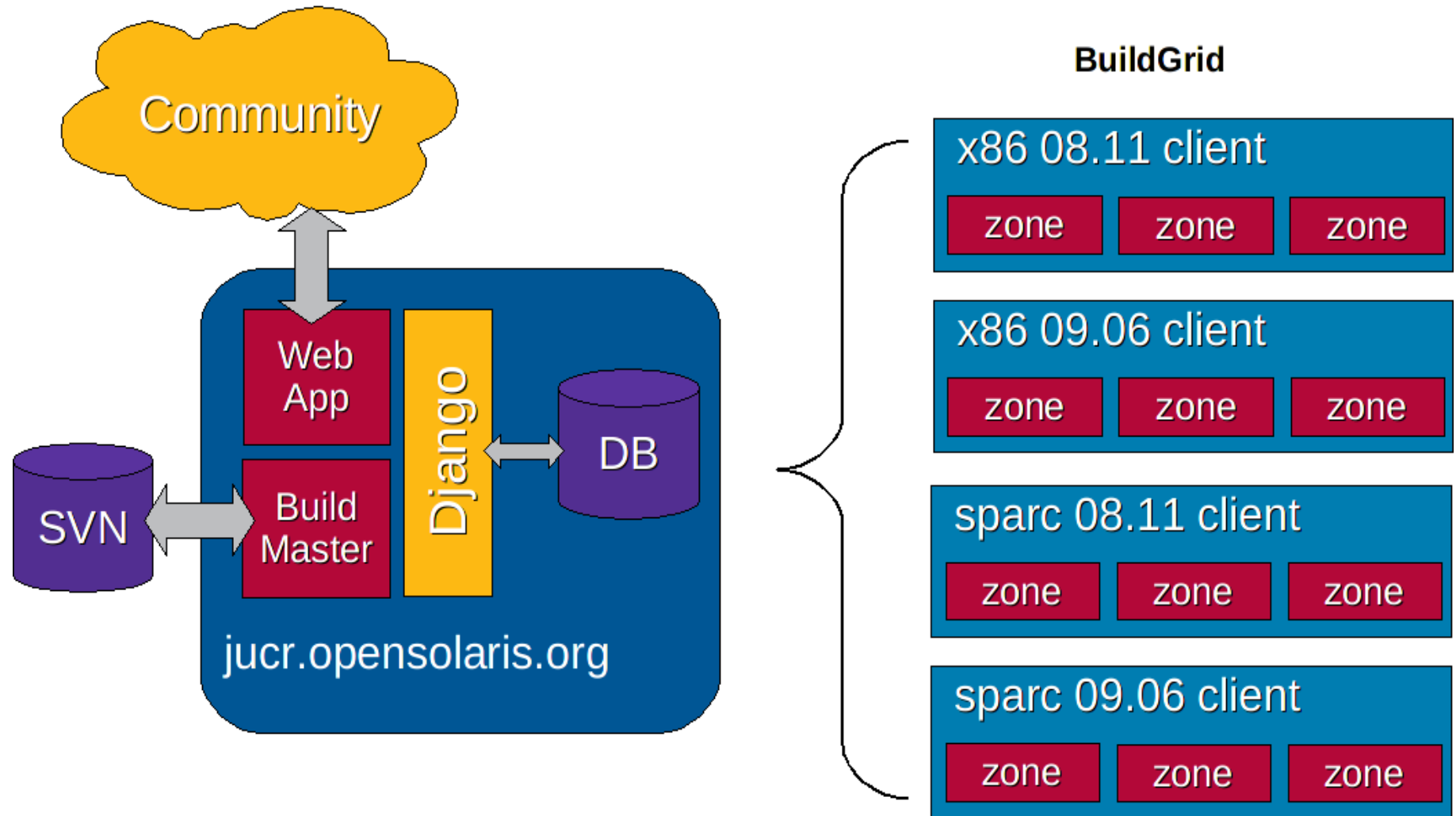




# Source Juicer Components

Opensolaris (good use of zones + zfs)  
The Django Python Framework  
Subversion  
Webserver and database  
OpenSolaris Authentication Framework  
The OpenSolaris desktop CBE  
Sun Studio

# OpenSolaris Source Juicer





# opensolaris source juicer

[submit](#) [review](#) [build](#) [MyJuicer](#) [help](#) [Log out Christian Kelly](#)

[home](#) >> [review](#) >> [pygoogle - Google Python API](#)

Summary	
<b>Identifier</b>	pygoogle - Google Python API <a href="#">Change</a>
<b>Files</b>	<a href="#">specs/pygoogle.spec [diff]</a> <a href="#">copyright/pygoogle.copyright [diff]</a> <a href="#">Delete File</a>
<b>Submitter</b>	Christian Kelly
<b>Submitted On</b>	2009-05-27
<b>Status</b>	active <a href="#">Withdraw Submission</a>
<b>Votes</b>	+0 -0

Validation	
<b>Syntax check</b>	OK
<b>Name</b>	pygoogle
<b>License</b>	missing
<b>Copyright tag</b>	pygoogle.copyright
<b>Copyright file</b>	<a href="#">pygoogle.copyright</a>
<b>Community Website</b>	missing
<a href="#">Validate</a> <a href="#">[what is this?]</a>	

### Review Activities

## All Submissions



Identifier	Submitter	Date ↓	Files	Validated? Validated	Comments	Votes
<a href="#">emesene</a>	Sergio Enrique Schvezov	2009-09-30	<a href="#">emesene-01-env.diff</a> <a href="#">emesene.spec</a> <a href="#">emesene.copyright</a>	✓	3	+0 -0
<a href="#">scummvm_emulator</a>	Mark Duggan	2009-09-29	<a href="#">scummvm.spec</a> <a href="#">scummvm.copyright</a>	✓	0	+0 -0
<a href="#">pygoogle - google API</a>	Mark Duggan	2009-09-29	<a href="#">pygoogle.spec</a> <a href="#">pygoogle.copyright</a>	✓	0	+0 -0
<a href="#">python26-matplotlib</a>	Federico Beffa	2009-09-26	<a href="#">python26-matplotlib-02-backend_gdk.c.diff</a> <a href="#">python26-matplotlib.copyright</a> <a href="#">python26-matplotlib-01-setupext.py.diff</a> <a href="#">python26-matplotlib.spec</a>	✓	8	+0 -0
<a href="#">python26-ipython</a>	Federico Beffa	2009-09-26	<a href="#">python26-ipython.spec</a> <a href="#">python26-ipython.copyright</a>	✓	2	+0 -0
<a href="#">python26-scipy</a>	Federico Beffa	2009-09-26	<a href="#">python26-scipy.copyright</a> <a href="#">python26-scipy.spec</a>	✓	4	+0 -0
<a href="#">python-django</a>	Roboporter	2009-09-25	<a href="#">python-django.spec</a>	✓	1	+1 -0

home >> build

## Build Jobs

JobID ↓	Identifier	Submitter	Build Start	Build Finish	Install	Build Log	Status
<a href="#">1570</a>	 <a href="#">pygoogle - Google Python API</a>	Christian Kelly				<a href="#">Log</a>	BUILDING
<a href="#">1569</a>	<a href="#">gnuplot</a>	N/A	May 27 12:05	May 27 12:05	<a href="#">Install</a> 	<a href="#">Log</a>	PASSED
<a href="#">1568</a>	<a href="#">pureftpd.spec</a>	N/A	May 27 10:05	May 27 10:05		<a href="#">Log</a>	FAILED
<a href="#">1567</a>	 <a href="#">net-snmp</a>	Steven Stallion	May 27 09:05	May 27 09:05		<a href="#">Log</a>	FAILED
<a href="#">1566</a>	 <a href="#">scribes</a>	Abhishek Gupta	May 27 09:05	May 27 09:05	<a href="#">Install</a> 	<a href="#">Log</a>	PASSED
<a href="#">1565</a>	 <a href="#">gnome-schedule</a>	Abhishek Gupta	May 27 09:05	May 27 09:05	<a href="#">Install</a> 	<a href="#">Log</a>	PASSED
<a href="#">1564</a>	 <a href="#">gtk2edit</a>	Abhishek Gupta	May 27 09:05	May 27 09:05	<a href="#">Install</a> 	<a href="#">Log</a>	PASSED
<a href="#">1563</a>	<a href="#">amsn clone</a>	N/A	May 27 09:05	May 27 09:05		<a href="#">Log</a>	FAILED
<a href="#">1562</a>	<a href="#">XZ Utilities</a>	N/A	May 27 06:05	May 27 06:05	<a href="#">Install</a> 	<a href="#">Log</a>	PASSED
<a href="#">1561</a>	<a href="#">XZ Utilities</a>	N/A	May 27 05:05	May 27 05:05	<a href="#">Install</a> 	<a href="#">Log</a>	PASSED
<a href="#">1560</a>	 <a href="#">murrine - a GTK theme for GNOME</a>	Markus Weber	May 27 05:05	May 27 05:05		<a href="#">Log</a>	FAILED
<a href="#">1559</a>	<a href="#">XZ Utilities</a>	N/A	May 27 05:05	May 27 05:05	<a href="#">Install</a> 	<a href="#">Log</a>	PASSED

# Making a submission

## Spec file

- Build recipe to build a particular piece of software
- Built using pkgbuild

## Copyright file

- License needed for validation

- Roughly equivalent to a COPYING file

## Other files

- Patches

- Manpages

- Base specs

- Extra sources

Minimum submission is 1x spec and 1x copyright

Lets look at a spec file...

# Example spec file, part 1

```
%include Solaris.inc
```

```
Name:                pygoogle
Summary:             Python API for Google
Group:              System/Libraries
Version:            0.6
License:            Python
Url:               http://pygoogle.sf.net
Source:            %{sf_downloads}/pygoogle/%{name}-%{version}.tar.gz
BuildRoot:         %{_tmppath}/%{name}-%{version}
SUNW_Copyright:    %{name}.copyright
BuildRequires:     SUNWPython
```

```
Meta(info.maintainer): Christian Kelly <christian.kelly@sun.com>
Meta(info.classification): "org.opensolaris.category.2008:Development
/Other Languages"
Meta(info.upstream): Brian Landers
```

# Example spec file, part 2

```
%prep
%setup -q -n %{name}-%{version}

%build

%install
rm -rf $RPM_BUILD_ROOT
python setup.py install --prefix=%_prefix --root=$RPM_BUILD_ROOT

%files
%defattr (-, root, bin)
%{_libdir}/python2.4/site-packages/pygoogle/*
%{_libdir}/python2.4/site-packages/pygoogle.pth
```

# Source Juicer's build process

Job is assigned to available zone  
Build zone is reset (zfs rollback)  
Svn update into build zone grabs new files  
Sources downloaded into tar repository  
Tools and dependencies installed to zone  
pkgbuild builds the package(s)  
IF build fails, save logs and return  
ELSE pkgbuild publishes to build repo  
Test install  
Publish to pending!

# Using Source Juicer

Submission

Validation

Build

Review

*Demo*



# Source Juicer Advantages

Syntax checking, legal review and minimal peer review precede build  
Comments and votes tied to package  
**No** contamination of build environments  
Requires can be strictly enforced  
Auto smoke test of install before publish  
Single click install from build status page

# Source Juicer Community

~500 People

1599 Packages built

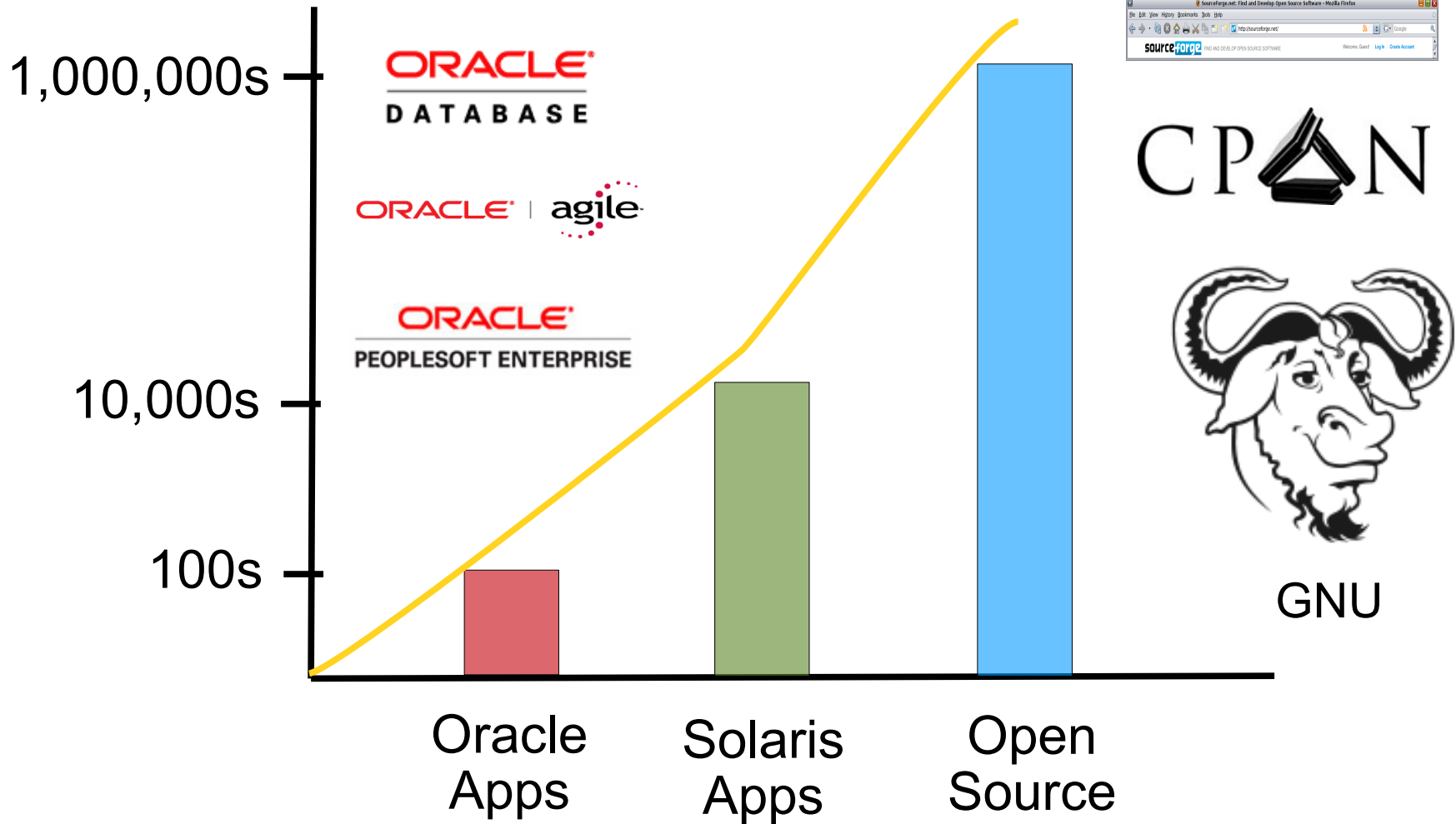
219 Packages published to pending

106 Packages promoted to contrib

# Some Promotions

sdl-image django-compress django-pagination pidgin-musictracker  
 apcupsd **gauche** haproxy modules netspeed-applet nexuiz opera routes  
 sqlalchemy django-dbtemplates django-dpaste geany loudmouth  
 recordmysolaris **pidgin-facebookchat** bdb fntsample mhash ming mono  
 tnef szip gedit-plugins gtkballs gtkfontsel **laconica** tin advancecomp  
 cabextract cutils gdbm jaxml jflex **mediawiki** mtr nmh slurm-llnl pound  
 dillo sdl-mixer supertux openal-soft pexpect bash-completion **waveutils**  
 sponly lxsplittload ccache perl-YAML ascii2binary bcrypt boolstuff  
 buildtorrent chrpath cue2toc gtm dmidecode Xaw3d fortune **Ruby** ploticus  
 gnuplot rcs **Opera** Free **Wordpress** Roundcube **GLPK** FreeImage Vala  
 gtk-gnutella pexpect drupal5 drupal6 telepathy-glib joomla phpMyAdmin  
 xfce4-dev-tools glpk dhcp fntsample astyle ddd freeradius-server moin  
 nasm yasm python24-imaging python26-imaging mercurial-server **acquia**  
**drupal** python24-ldap python26-ldap

# Solaris Applications



# Porting Applications

## How do we add applications to Solaris?

Sun

Independent Software Vendors (ISVs)

<http://partneradvantage.sun.com/>

Individuals and projects

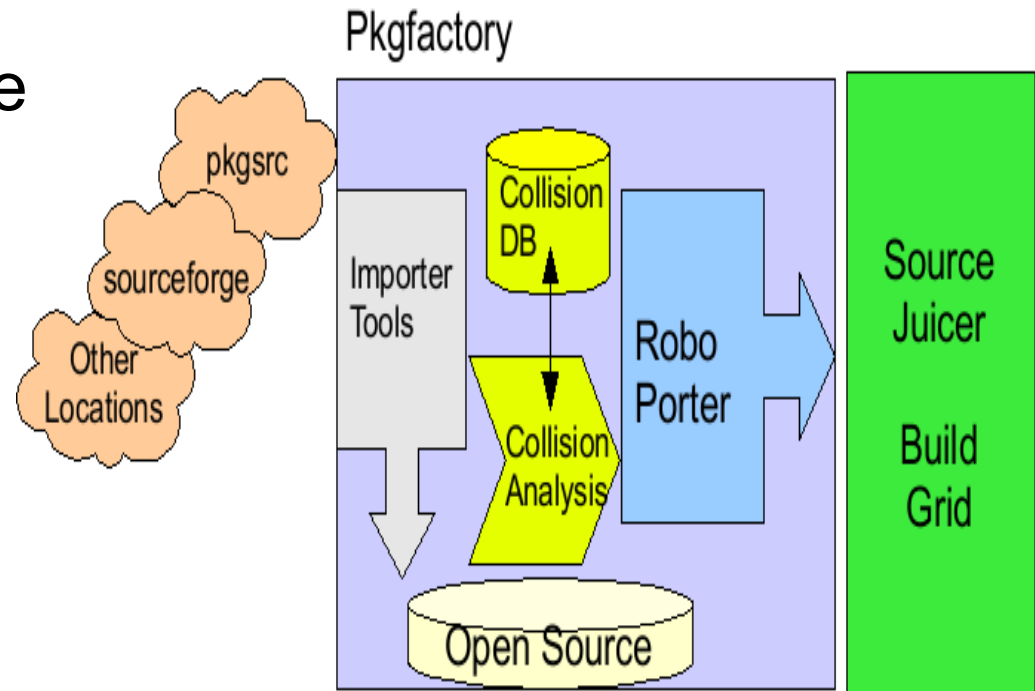
Package Factory (Fully Automated)

Source Juicer (Semi-Automated)

**Note:** *Most well-written Open Source applications for \*BSD, Linux... can be built on OpenSolaris*

# Package Factory

Downloads Open Source Code  
 Filters & Analyzes  
 Creates Spec Files  
 Builds / Installs pkgs  
 Reviews / Tests pkgs



## Roboporter

Submits Spec Files to Source Juicer  
 Ports Massive Numbers of Packages!!  
 Anyone can take ownership of packages

# The Future?

OpenSolaris desktop consolidation  
User interface improvements  
Personal build zones  
Integrated test environment  
Integrated defect tracking  
You!

# More Information

## Software Porters Community

<http://www.opensolaris.org/os/community/sw-porters/>  
[sw-porters-discuss@opensolaris.org](mailto:sw-porters-discuss@opensolaris.org)

## Source Juicer and Source Juicer Project

<http://juicr.opensolaris.org/>  
[sourcejuicer-discuss@opensolaris.org](mailto:sourcejuicer-discuss@opensolaris.org)

## Package Factory Project

<http://www.opensolaris.org/os/project/pkgfactory/>  
[pkgfactory-discuss@opensolaris.org](mailto:pkgfactory-discuss@opensolaris.org)

## Development Resources (Test Farm)

<http://www.opensolaris.org/os/community/testing/>  
[testing-discuss@opensolaris.org](mailto:testing-discuss@opensolaris.org)



# Developer resources

OpenSolaris Test Farm

Virtual Machines

Development Zones

Kernel and Application Development

Sparc and X86 Advanced Servers

SunStudio Compiler and Tools

## Sun Studio

### C, C++ & Fortran Compilers and Tools



#### Performance Matters

Download record-setting compilers and tools for free.

Overview

Features


Documentation

Community

Support

Downloads

At a Glance | [What's New](#) | [Topics](#) | [Videos](#) | [Heroes](#) | [Partners](#)

Sun Studio software provides compilers and tools for C, C++, and Fortran development on Solaris, OpenSolaris, and Linux platforms, with support of multicore x86- and SPARC-based systems.  [Download](#)

# More Developer Resources

Get Sun Studio

Download:

<http://developers.sun.com/sunstudio>

OpenSolaris repository

Search for “sunstudio12u1” in package manager

Join the Sun Developer Community at  
[developers.sun.com](http://developers.sun.com)

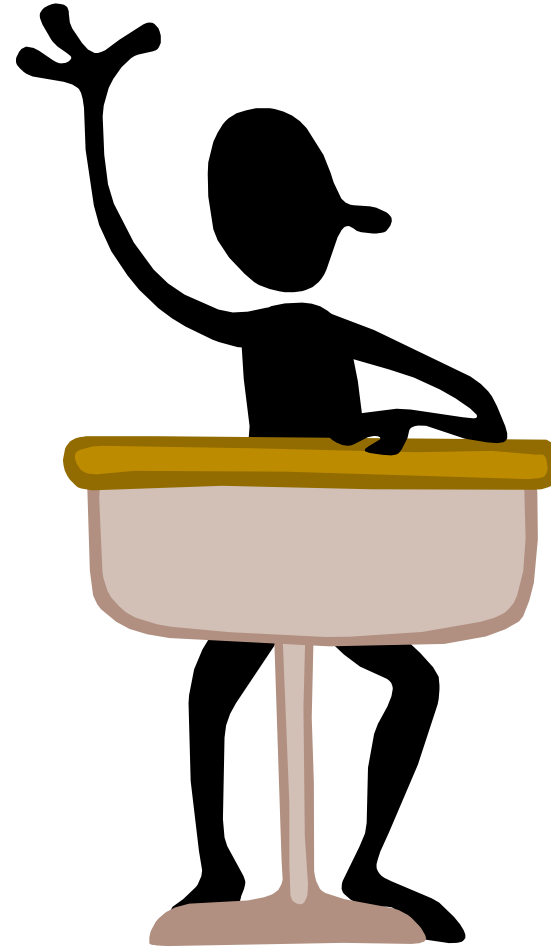
Developer forums at <http://forum.sun.com> ->

“Developer Tools” -> “Solaris and Linux Tools”

Get a SPARC, Intel, or AMD multi-core system  
FREE (for 60 days)

<http://www.sun.com/tryandbuy>

# Questions?





**Thank You!!**

**OpenSolaris  
Source Juicer**

**brian.nitz@sun.com**



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[View Tagged Sets](#)

## 1-8 of 8 BugJuicer Tagged Bugs

(Filtered on **tg\_staff**)

Module	Priority	Severity	Upstream ID	scm_fixed	Synopsis	Community Tags	Add tag	Remove tag	Remove from table
Opensolaris distro	high	enhancement	<a href="#">483</a>	0	Introduce testing framework for Scheme codes	OS2008_05_QA RequiredForCustomerX RequiredForProductY YuckyBug bobs_bugs tg_staff --untagged--	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opensolaris distro	high	enhancement	<a href="#">1923</a>	0	RFE: Need test branch for testing the packaging system (20041125)	1 tags	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opensolaris distro	medium	normal	<a href="#">12050</a>	0	Unable compile evdev-git-20070818 with Debian testing Xorg	1 tags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opensolaris distro	P1	critical	<a href="#">1011</a>	0	terminal window output in latest build results in hard to read text	1 tags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opensolaris distro	P2	major	<a href="#">1719</a>	0	Indiana RC2 Test Install: keyboard and networking problem on a MacBook Pro	1 tags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opensolaris distro	P2	major	<a href="#">2130</a>	0	TESTpatchTEST fails to apply to TESTtarballTEST	2 tags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Opensolaris distro	P2	major	<a href="#">1673</a>	0	zfs space accounting impacts php testing	4 tags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nautilus	P5	trivial	<a href="#">2865</a>	0	IGNORE TEST fails to apply to	2 tags	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[Save Changes](#)



[Return to Tag Page](#)

## Bugjuicer Tagged Bug Sets

...bug set continued from [page 1](#)

Module	Priority	Severity	Upstream ID	scm fixed	Synopsis
Opensolaris distro	medium	normal	<a href="#">10247</a>	0	liboil should use sigsetjmp when testing for CPU.

### RequiredForCustomerX tag set

Module	Priority	Severity	Upstream ID	scm fixed	Synopsis
Opensolaris distro	P2	major	<a href="#">2130</a>	0	TESTpatchTEST fails to apply to TESTarballTEST

### RequiredForProductY tag set

Module	Priority	Severity	Upstream ID	scm fixed	Synopsis
Opensolaris distro	high	enhancement	<a href="#">1923</a>	0	RFE: Need test branch for testing the packaging system (20041125)
Opensolaris distro	high	normal	<a href="#">2907</a>	0	Errors testing cairo 0.4.0
Opensolaris distro	P2	major	<a href="#">1673</a>	0	zfs space accounting impacts php testing

### YuckyBug tag set

Module	Priority	Severity	Upstream ID	scm fixed	Synopsis
Firefox	--	major	<a href="#">370653</a>	0	Firefox often loses keyboard focus when switching tabs
Firefox	--	major	<a href="#">440007</a>	0	Flash player does not "receive focus". Cannot click on buttons.
Firefox	--	normal	<a href="#">393540</a>	0	onload=self.focus() doesn't work when reuse tab that already exists
Firefox	--	normal	<a href="#">396490</a>	0	Calling element.blur() removes focus unconditionally, even when "element" doesn't have focus.
Opensolaris distro	high	enhancement	<a href="#">483</a>	0	Introduce testing framework for Scheme codes

✖ Find: 
[← Previous](#) [Next →](#)
 Highlight all  Match case

Done

Distro 1	Distro 2	Distro 3
<b>Mozilla</b>	<b>Firefox2</b>	<b>Firefox3</b>
<b>Java 1.4</b>	<b>Java 1.6</b>	<b>Java 1.6</b>
<b>GNOME 2.6</b>	<b>GNOME 2.20</b>	<b>GNOME 2.24</b>
<b>XSun</b>	<b>Xorg</b>	<b>Xorg</b>
<b>S10u5 kernel</b>	<b>OS2008.05kernal</b>	<b>OS2008.11kernel</b>

Upstream bug tracking systems usually confined to single codebase

Distro bug databases view down through layers but are detached from code

Distro 1	Distro 2	Distro 3
<b>Mozilla</b>	<b>Firefox2</b>	<b>Firefox3</b>
<b>Java 1.4</b>	<b>Java 1.6</b>	<b>Java 1.6</b>
<b>GNOME 2.6</b>	<b>GNOME 2.20</b>	<b>GNOME 2.24</b>
<b>XSun</b>	<b>Xorg</b>	<b>Xorg</b>
<b>S10u5 kernel</b>	<b>OS2008.05kernal</b>	<b>OS2008.11kernel</b>

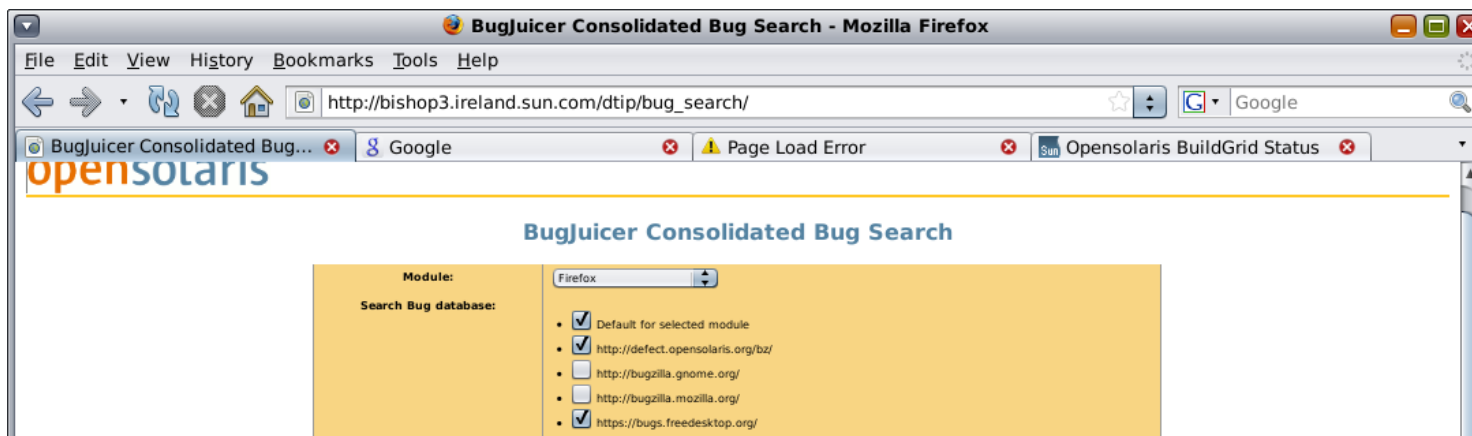
Upstream bug tracking systems usually confined to single codebase



Bugs can span multiple layers, distros and codebases

Bugjuicer can search and tag bugs across multiple layers, distros and codebases

Distro 1	Distro 2	Distro 3
Mozilla	Firefox2	Firefox3
Java 1.4	Java 1.6	Java 1.6
GNOME 2.6	GNOME 2.20	GNOME 2.24
XSun	Xorg	Xorg
S10u5 kernel	OS2008.05kernel	OS2008.11kernel



Bugjuicer Consolidated Bug Search - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://bishop3.ireland.sun.com/dtip/bug\_search/

Bugjuicer Consolidated Bug Search

Module: Firefox

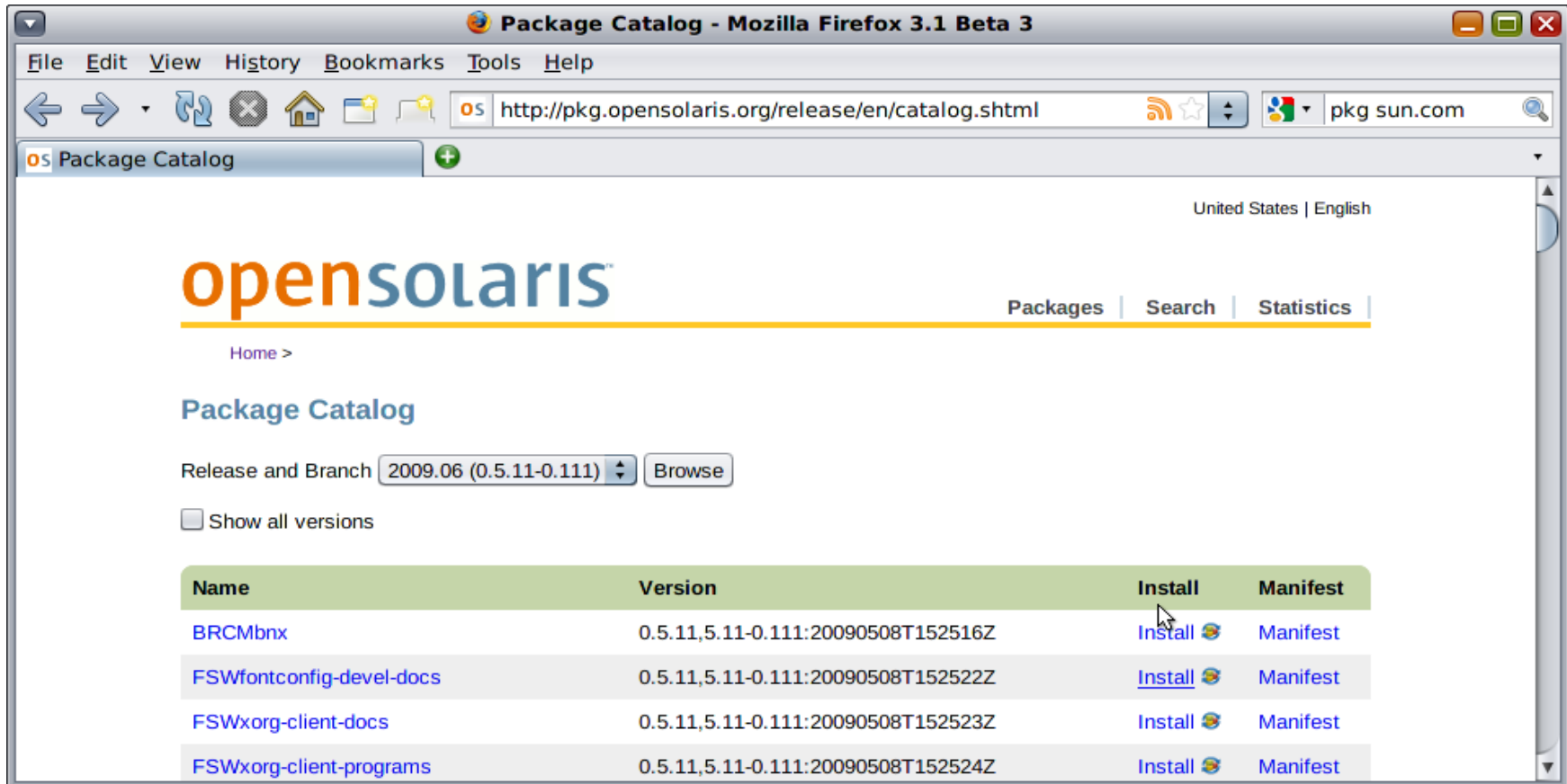
Search Bug database:

- Default for selected module
- http://defect.opensolaris.org/bz/
- http://bugzilla.gnome.org/
- http://bugzilla.mozilla.org/
- https://bugs.freedesktop.org/



# IPS Repositories

pkg.opensolaris.org



Package Catalog - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

http://pkg.opensolaris.org/release/en/catalog.shtml

Package Catalog

United States | English

# opensolaris





Packages | Search | Statistics

Home >

## Package Catalog

Release and Branch

Show all versions

Name	Version	Install	Manifest
<a href="#">BRCMbnx</a>	0.5.11,5.11-0.111:20090508T152516Z	<a href="#">Install</a> 	<a href="#">Manifest</a>
<a href="#">FSWfontconfig-devel-docs</a>	0.5.11,5.11-0.111:20090508T152522Z	<a href="#">Install</a> 	<a href="#">Manifest</a>
<a href="#">FSWxorg-client-docs</a>	0.5.11,5.11-0.111:20090508T152523Z	<a href="#">Install</a> 	<a href="#">Manifest</a>
<a href="#">FSWxorg-client-programs</a>	0.5.11,5.11-0.111:20090508T152524Z	<a href="#">Install</a> 	<a href="#">Manifest</a>

# Solaris Packaging Differences

## Solaris 10

SVR4 package format  
pkgadd, pkgrm...  
Package tarballs  
Dependencies indentified  
Patch granularity

Separate OS upgrade  
process

## OpenSolaris

IPS package format  
pkg, PackageMgr GUI  
Network repositories  
Dependencies resolved  
Package granularity

pkg image-update  
ZFS snapshots, rollback

# Other Development Resources

OpenSolaris Test Farm

Virtual Machines

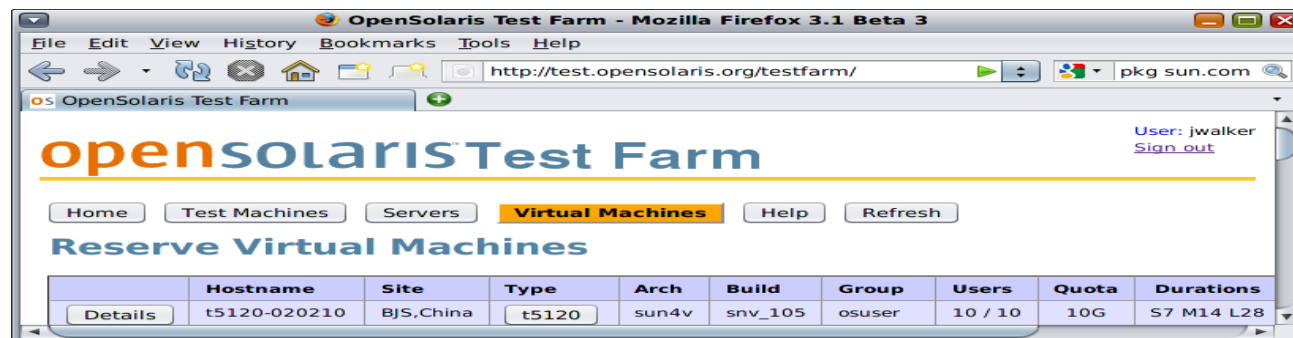
Development Zones

Kernel and Application Development

Sparc and X86 Advanced Servers

SunStudio Compiler and Tools

Sites in USA and China



# Source Juicer Process

Submit

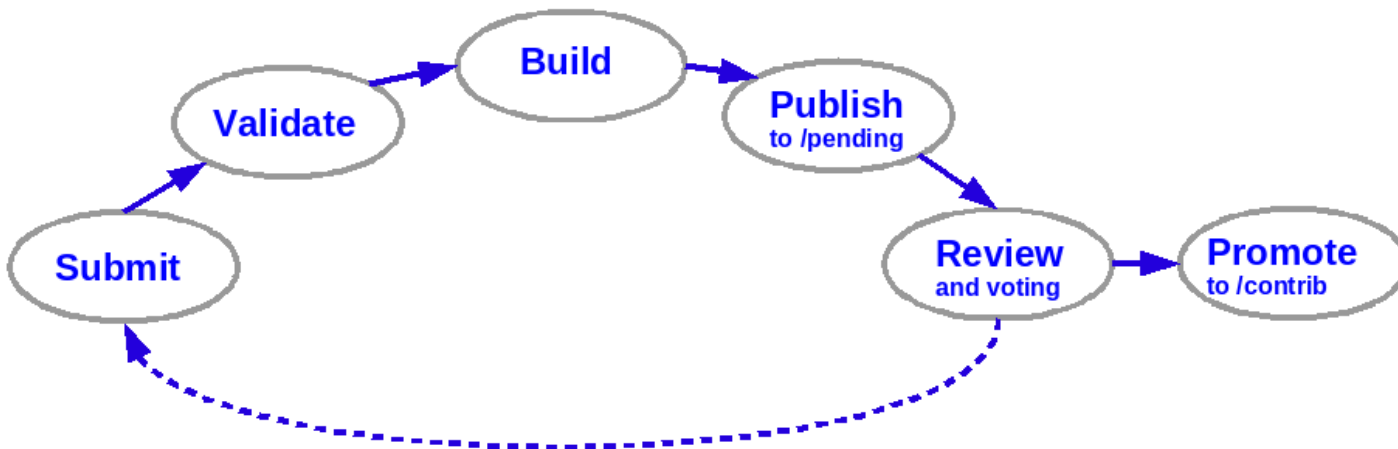
Validate

Build & Publish to /pending repo

Review

Vote

Promote to /contrib repo



# Source Juicer Demo

# More Information

## Software Porters Community

<http://www.opensolaris.org/os/community/sw-porters/>  
[sw-porters-discuss@opensolaris.org](mailto:sw-porters-discuss@opensolaris.org)

## Source Juicer and Source Juicer Project

<http://juicr.opensolaris.org/>  
[sourcejuicer-discuss@opensolaris.org](mailto:sourcejuicer-discuss@opensolaris.org)

## Package Factory Project

<http://www.opensolaris.org/os/project/pkgfactory/>  
[pkgfactory-discuss@opensolaris.org](mailto:pkgfactory-discuss@opensolaris.org)

## Development Resources (Test Farm)

<http://www.opensolaris.org/os/community/testing/>  
[testing-discuss@opensolaris.org](mailto:testing-discuss@opensolaris.org)

# Application Performance is Critical

Can be the difference between a successful or failed deployment

On multi-core systems its all about throughput

Designing multi-threaded apps can achieve high throughput

But ... creating MT applications is difficult

Coding is based on assumptions about behavior.  
Behavior of multi-core systems is not well understood.

What about existing serial apps? Hard to retrofit parallelism

Developers need tools to help get this right

# New Tools for MT Applications

Many new tools are being introduced to help developers ...

Write correct MT code

Quickly debug MT-related errors

Achieve acceptable throughput

Find problems unique to MT apps (memory management errors, race conditions, deadlocks, etc.)

Observe an app's performance in a 'live' system



# Sun Studio 12 Update 1

## Suite of C/C++ Tools with Multi-Core Capabilities

### Performance

World class code generation

Dozens of benchmark records on Intel, AMD, Sun, & Fujitsu architectures !

### Parallelism

Auto-parallelizing compilers

Thread analysis and profiling

Data race / deadlock detection

OpenMP 3.0

MPI support

### Productivity

Graphical debugger

Memory leak detection

Application Profiler / Analyzer

DTrace Visualization

NetBeans-based IDE

### Platforms



ORACLE  
ENTERPRISE LINUX



32-bit & 64-bit

# Parallelize Loops with Autopar

## Compiler automatically multi-threads serial code

```
for (i=0; i<m; i++)
  for (j=0; j<n; j++)
    a[i][j] = b[i][j] + c[i][j];
```

Turns on auto-parallelization  
Prints parallelization information

```
$ cc -xO4 -xautopar -xloopinfo main.o loop.c
"loop.c", line 7: PARALLELIZED, and serial version generated
"loop.c", line 8: not parallelized, not profitable
$ time a.out // Default is 1 thread

real    0m37.96s
user    0m36.64s
sys     0m0.97s
$ PARALLEL=2 // For a two-way parallel run
$ time a.out

real    0m21.99s
user    0m41.07s
sys     0m2.23s
```

**The same binary can run with different numbers of threads.**

# Parallelize Data Processing with Vectors

## Do more work in each clock cycle

Simultaneously process multiple data elements in adjacent memory (“*Single Instruction, Multiple Data*”)

Compiler option: *-xvector=simd*

Best suited for array processing via loops

Experience shows gains in the 1-7% range

You write this:

```
for (i=0; i<1024; i++)  
  c[i] = a[i] * b[i]
```

Compiler generates code like this:

```
for (i=0; i<1024; i+=4)  
  c[i:i+3] = a[i:i+3]*b[i:i+3]
```

# Detect Parallel Programming Errors

**Thread Analyzer** detects data races and deadlocks

Identifies non-deterministic or incorrect execution

Identifies actual and potential deadlock situations

Process:

Compile source code with **-xinstrument=datarace**

Run app and collect runtime info with *collect -r all*

Run **tha** to graphically display races and conflicts

Works with OpenMP, Pthreads, Solaris Threads

**lock\_lint** static source code lock analyzer

Analyzes mutex and multiple readers / single writer locks

Reports on inconsistent usage of locks that may lead to data races and deadlocks



# Tune / Observe Parallel Applications

**Performance Analyzer** detects performance bottlenecks in MT code

Works with unmodified binaries, low overhead

Performance data at statement, instruction, function level

Displays **Compiler Commentary** describing optimizations

**D-Light** correlates DTrace data to app's source code

Uses DTrace mechanism to collect and display real-time system events

Time-line view of running applications

Unprecedented level of insight into how an app interacts with the instrumented infrastructure

# Summary (20 minutes in 20 seconds)

Multi-core computing is here; throughput is the new performance focus

New developer tools are available for creating new MT code and retro-fitting MT into existing serial apps

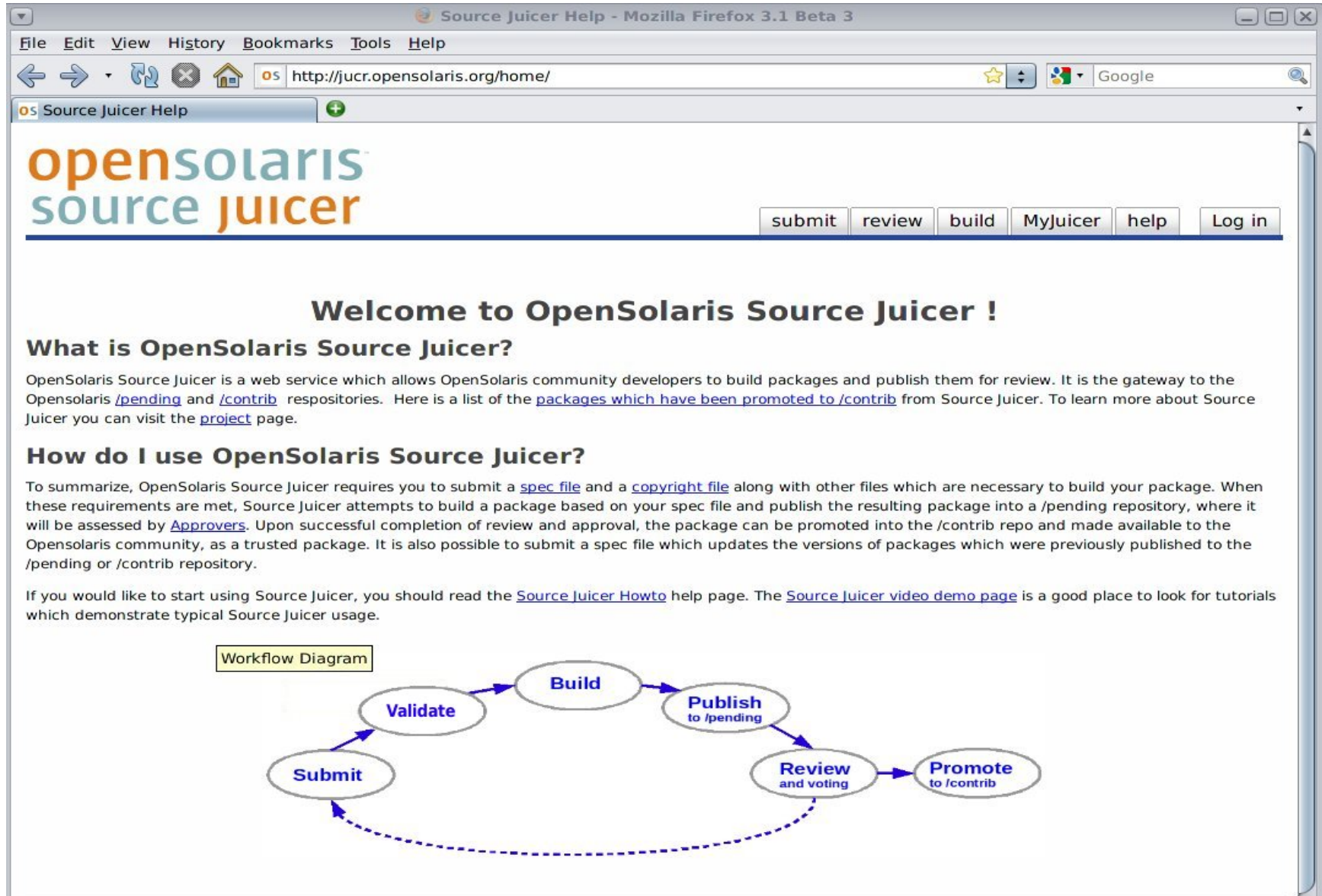
Sun offers a world-class suite of MT app developer tools for Solaris and Linux platforms

Get Sun Studio and try the compiler's *autopar* flag

Incrementally parallelize serial code using OpenMP



# Source Juicer Homepage



The screenshot shows a Mozilla Firefox browser window titled "Source Juicer Help - Mozilla Firefox 3.1 Beta 3". The address bar shows the URL "http://juicer.opensolaris.org/home/". The page features the "opensolaris source juicer" logo and a navigation menu with buttons for "submit", "review", "build", "MyJuicer", "help", and "Log in".

## Welcome to OpenSolaris Source Juicer !

### What is OpenSolaris Source Juicer?

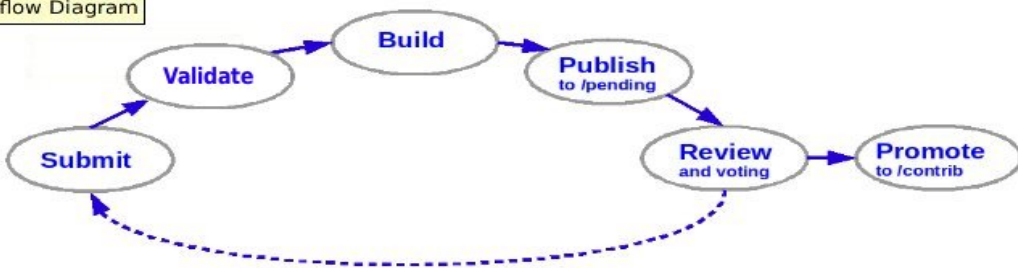
OpenSolaris Source Juicer is a web service which allows OpenSolaris community developers to build packages and publish them for review. It is the gateway to the OpenSolaris [/pending](#) and [/contrib](#) repositories. Here is a list of the [packages which have been promoted to /contrib](#) from Source Juicer. To learn more about Source Juicer you can visit the [project](#) page.

### How do I use OpenSolaris Source Juicer?

To summarize, OpenSolaris Source Juicer requires you to submit a [spec file](#) and a [copyright file](#) along with other files which are necessary to build your package. When these requirements are met, Source Juicer attempts to build a package based on your spec file and publish the resulting package into a [/pending](#) repository, where it will be assessed by [Approvers](#). Upon successful completion of review and approval, the package can be promoted into the [/contrib](#) repo and made available to the OpenSolaris community, as a trusted package. It is also possible to submit a spec file which updates the versions of packages which were previously published to the [/pending](#) or [/contrib](#) repository.

If you would like to start using Source Juicer, you should read the [Source Juicer Howto](#) help page. The [Source Juicer video demo page](#) is a good place to look for tutorials which demonstrate typical Source Juicer usage.

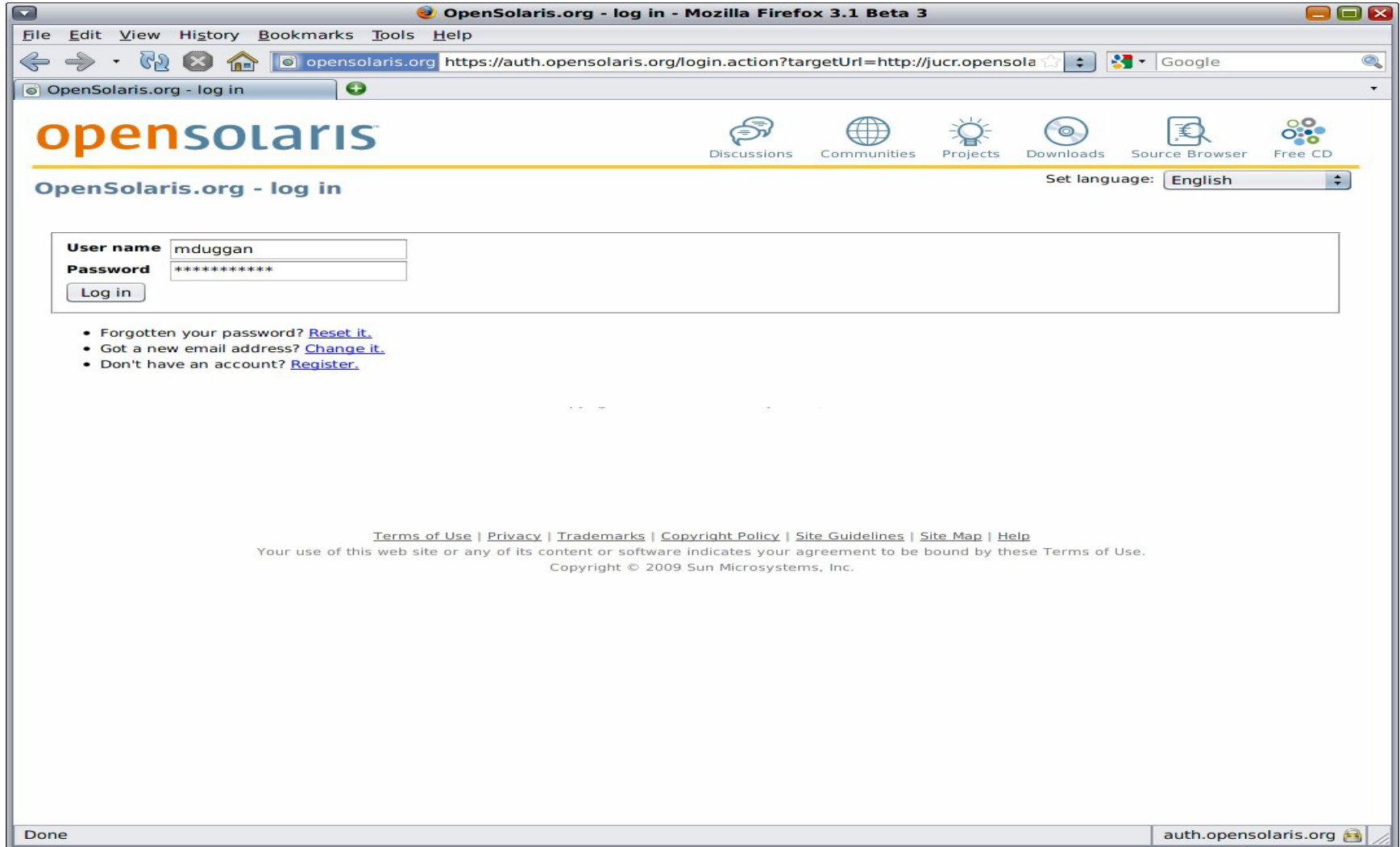
**Workflow Diagram**



```

graph TD
    Submit([Submit]) --> Validate([Validate])
    Validate --> Build([Build])
    Build --> Publish([Publish to /pending])
    Publish --> Review([Review and voting])
    Review --> Promote([Promote to /contrib])
    Review -.-> Submit
  
```

# Opensolaris.org login



OpenSolaris.org - log in - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

opensolaris.org https://auth.opensolaris.org/login.action?targetUrl=http://jucr.opensola

OpenSolaris.org - log in

**opensolaris**

Discussions Communities Projects Downloads Source Browser Free CD

OpenSolaris.org - log in Set language: English

User name

Password

Log in

- Forgotten your password? [Reset it.](#)
- Got a new email address? [Change it.](#)
- Don't have an account? [Register.](#)

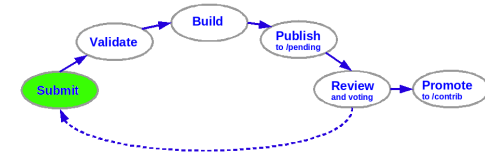
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Done auth.opensolaris.org



# Submit Tab



Source Juicer Package Review - Mozilla Firefox 3.1 Beta 3
File Edit View History Bookmarks Tools Help
http://jucr.opensolaris.org/submit/

Source Juicer Package Review

opensolaris  
source juicer

submit
review
build
Myjuicer
help
Log out Mark Duggan

home >> submit

## Submit

**Identifier**

**Files**

[Add another file](#)

Enter a short description that lets others easily identify what component you're submitting.

This is where you specify all the files required to build your component.

You must specify a **spec file** and a **copyright file**.

Additional files can be added by clicking the **Add another file** link, as required.

[\[more help\]](#)

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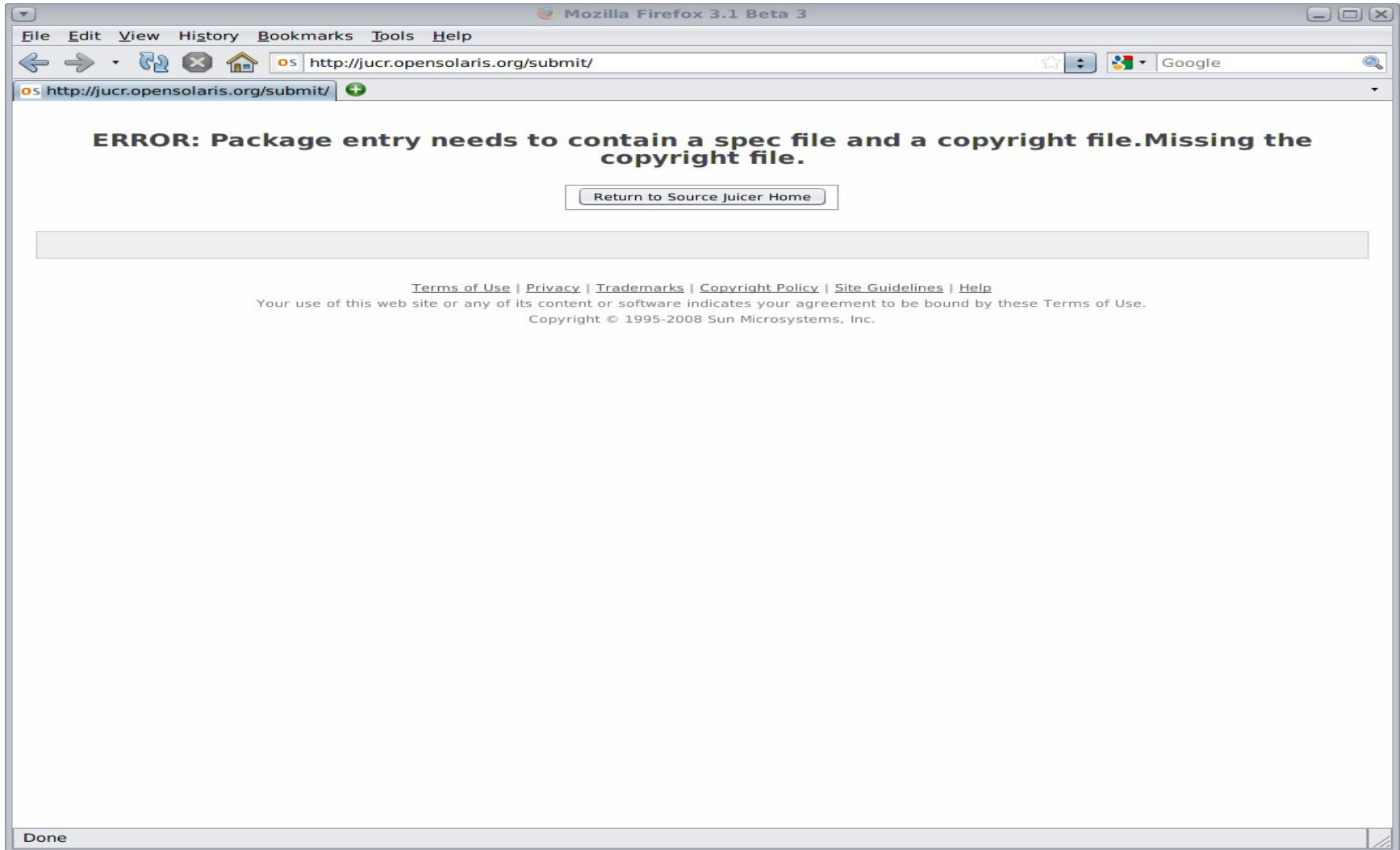
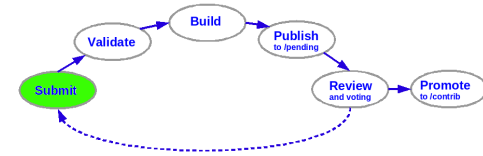
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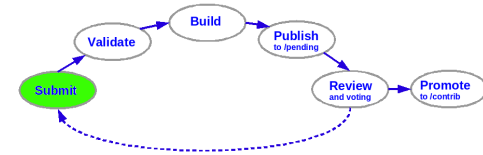
OpenSolaris Source Juicer: Version 1.2.8, Assembled 2009-09-02

Done

# Copyright missing



# Submission complete



Source Juicer Package Review - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

http://juicer.opensolaris.org/submit/

Source Juicer Package Review

**opensolaris**  
source juicer

submit review build Myjuicer help Log out Mark Duggan

home >> submit

## Submit

**Identifier**

**Files**

Enter a short description that lets others easily identify what component you're submitting.

This is where you specify all the files required to build your component.

You must specify a **spec file** and a **copyright file**.

Additional files can be added by clicking the **Add another file** link, as required.

[\[more help\]](#)

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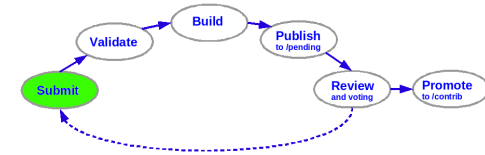
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Done

# Submission successful



Opensolaris Source Juicer >> Review >> Submit Complete - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

http://juicer.opensolaris.org/submit/

Loading...

**opensolaris source juicer**

submit review build MyJuicer help Log out Mark Duggan

home >> submit

## Submit successful

**The following files have been submitted:**

- pygoogle.spec
- pygoogle.copyright

**Please Note:** Your submission will not be built until the

- name
- license, and
- copyright

details have been validated by an approver.

**This page will send you to your submission in 10 seconds.**  
**If you are not automatically redirected, please click [here](#).**

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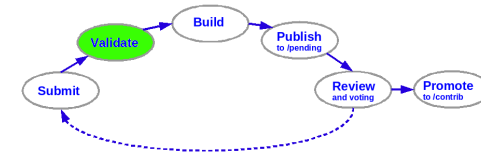
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OpenSolaris Source Juicer: Version 1.2.8, Assembled 2009-09-02

Waiting for juicer.opensolaris.org...

# Validation (by Approver)



Source Juicer Package Review - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

http://juicer.opensolaris.org/review/packages/1388/

Source Juicer Package Review

## opensolaris source juicer

submit review build Myjuicer help Log out Mark Duggan

home >> review >> pygoogle - Python Interface to the Google API

Summary	
Identifier	pygoogle - Python Interface to the Google API <input type="button" value="Change"/>
Files	<a href="#">specs/pygoogle.spec</a> [ diff ] <input type="button" value="Delete File"/>
Submitter	Mark Duggan
Submitted On	2009-09-28
Status	active <input type="button" value="Withdraw Submission"/>
Votes	+0 -0

Validation	
Syntax check	OK
Name	pygoogle
License	Python
Copyright tag	pygoogle.copyright
Copyright file	<a href="#">pygoogle.copyright</a>
Community Website	<a href="http://pygoogle.sf.net">http://pygoogle.sf.net</a>
<input type="button" value="Validate"/> <a href="#">what is this?</a>	

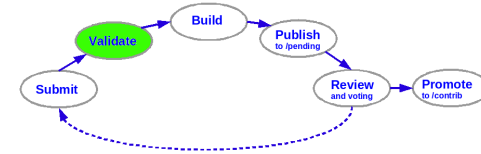
**Review Activities**

There are no review activities for this package.

Comment:

Done

# Submission validated



Source Juicer Package Review - Mozilla Firefox 3.1 Beta 3

http://jucr.opensolaris.org/review/

opensolaris source juicer

submit review build MyJuicer help Log out Mark Duggan

home >> review

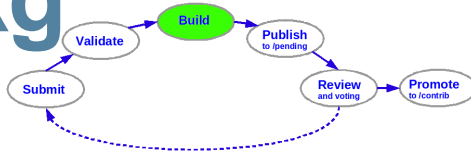
### All Submissions

Apply Filters Reset

Identifier	Submitter	Date ↓	Files	Validated?	Comments	Vote
<a href="#">pygoogle - Python Interface to the Google API</a>	Mark Duggan	2009-09-28	<a href="#">pygoogle.spec</a> <a href="#">pygoogle.copyright</a>	✓	0	+0
<a href="#">python26-matplotlib</a>	Federico Beffa	2009-09-26	<a href="#">python26-matplotlib.spec</a> <a href="#">python26-matplotlib.copyright</a> <a href="#">python26-matplotlib-01-setupext.py.diff</a> <a href="#">python26-matplotlib-02-backend_gdk.c.diff</a>	✗	1	+0
<a href="#">python26-ipython</a>	Federico Beffa	2009-09-26	<a href="#">python26-ipython.spec</a> <a href="#">python26-ipython.copyright</a>	✓	2	+0
<a href="#">python26-scipy</a>	Federico Beffa	2009-09-26	<a href="#">python26-scipy.spec</a> <a href="#">python26-scipy.copyright</a>	✓	2	+0
<a href="#">python-django</a>	Roboporter	2009-09-25	<a href="#">python-django.spec</a>	✓	1	+1
<a href="#">pylons</a>	Roboporter	2009-09-24	<a href="#">pylons.spec</a>	✓	1	+0
<a href="#">Antiword</a>	Prakhar Gupta	2009-09-24	<a href="#">SFEantiword.spec</a> <a href="#">SFEantiword.copyright</a>	✗	0	+0
<a href="#">pidentd</a>	Alexander	2009-09-23		✗	0	+0
<a href="#">pidentd</a>	Alexander	2009-09-23		✗	0	+0
<a href="#">pidentd</a>	Alexander	2009-09-23		✗	0	+0

Done

# Build Successful – Installable Pkg



Opensolaris Source Juicer >> BuildGrid >> Status - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

http://juicer.opensolaris.org/build/status/

Opensolaris source juicer

submit review **build** MyJuicer help Log out Mark Duggan

home >> build

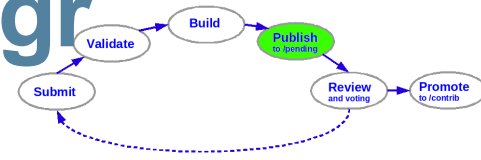
### Build Jobs

Apply Filters Reset

JobID ↓	Identifier	Submitter	Build Start	Build Finish	Install	Build Log	Status
<a href="#">4096</a>	<a href="#">pygoogle - Python Interface to the Google API</a>	Mark Duggan	Sep 28 12:20	Sep 28 12:21	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4095</a>	<a href="#">python26-ipython</a>	Federico Beffa	Sep 28 12:14	Sep 28 12:15	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4094</a>	<a href="#">python26-scipy</a>	Federico Beffa	Sep 28 11:58	Sep 28 11:58		<a href="#">Log</a>	FAILED
<a href="#">4093</a>	netpbm	N/A	Sep 27 13:32	Sep 27 13:34	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4091</a>	terminus-font	N/A	Sep 25 15:35	Sep 25 15:35	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4089</a>	<a href="#">python-django</a>	Roboporter	Sep 25 15:08	Sep 25 15:08	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4088</a>	Drupal 5	N/A	Sep 24 22:32	Sep 24 22:32	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4087</a>	Drupal 6	N/A	Sep 24 22:28	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4086</a>	Movable Type	N/A	Sep 24 22:28	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4085</a>	zspice.spec	N/A	Sep 24 22:28	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4084</a>	zsi.spec	N/A	Sep 24 22:29	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4083</a>	yasm.spec	N/A	Sep 24 22:10	Sep 24 22:11	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4082</a>	yabasic.spec	N/A	Sep 24 22:22	Sep 24 22:23	<a href="#">Install</a>	<a href="#">Log</a>	PASSED

Done

# Install from /pending with Pkg Mgr



Opensolaris Source Juicer >> BuildGrid >> Status - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

http://jucr.opensolaris.org/build/status/

Opensolaris source juicer

submit review **build** MyJuicer help Log out Mark Duggan

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### Build Jobs

Apply Filters Reset

JobID ↓	Identifier	Submitter	Build Start	Build Finish	Install	Build Log	Status
<a href="#">4096</a>	<a href="#">pygoogle - Python Interface to the Google API</a>	Mark Duggan	Sep 28 12:20	Sep 28 12:21	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4095</a>	<a href="#">python26-ipython</a>		ep 28 12:15		<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4094</a>	<a href="#">python26-scipy</a>		ep 28 11:58		<a href="#">Log</a>		FAILED
<a href="#">4093</a>	netpbm		ep 27 13:34		<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4091</a>	terminus-font		ep 25 15:35		<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4089</a>	<a href="#">python-django</a>		ep 25 15:08		<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4088</a>	Drupal 5		ep 24 22:32		<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4087</a>	Drupal 6		ep 24 22:29		<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4086</a>	Movable Type		ep 24 22:29		<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4085</a>	zspice.spec	N/A	Sep 24 22:28	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4084</a>	zsi.spec	N/A	Sep 24 22:29	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4083</a>	yasm.spec	N/A	Sep 24 22:10	Sep 24 22:11	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4082</a>	yabasic.spec	N/A	Sep 24 22:22	Sep 24 22:23	<a href="#">Install</a>	<a href="#">Log</a>	PASSED

**Opening pygoogle@0.6,5.11-0.111:20090928T13225**

You have chosen to open

**pygoogle@0.6,5.11-0.111:20090928T132255Z.p5i**  
 which is a: pkg(5) info file  
 from: http://jucr.opensolaris.org

**What should Firefox do with this file?**

**Open with** Package Manager (default)

Save File

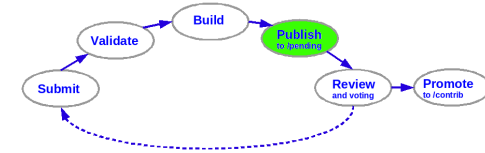
Do this automatically for files like this from now on.

Cancel OK

Done



# Install with Pkg Mgr contd.



OpenSolaris Source Juicer >> BuildGrid >> Status - Mozilla Firefox 3.1 Beta 3

**Package Manager Web Installer**  
The following will be added to your system

**Install Packages**  
pending.opensolaris.org: pygoogle@0.6,5.11-0.111:20090928T13

Help Cancel Proceed

submit review **build** Myjuicer help Log in

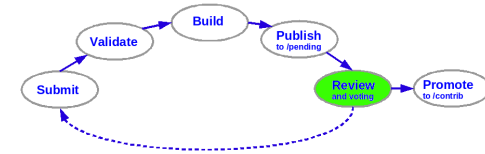
Apply Filters Reset

			Build Start	Build Finish	Install	Build Log	Status
		ggan	Sep 28 12:20	Sep 28 12:21	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4095</a>	<a href="#">python26-ipython</a>	Federico Beffa	Sep 28 12:14	Sep 28 12:15	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
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<a href="#">4087</a>	Drupal 6	N/A	Sep 24 22:28	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4086</a>	Movable Type	N/A	Sep 24 22:28	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4085</a>	zspice.spec	N/A	Sep 24 22:28	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED
<a href="#">4084</a>	zsi.spec	N/A	Sep 24 22:29	Sep 24 22:29	<a href="#">Install</a>	<a href="#">Log</a>	PASSED

Done



# Voting in review thread



Source Juicer Package Review - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

http://jucr.opensolaris.org/review/packages/497/

Source Juicer Package Review

opensolaris source juicer

submit review build MyJuicer help Log out Mark Duggan

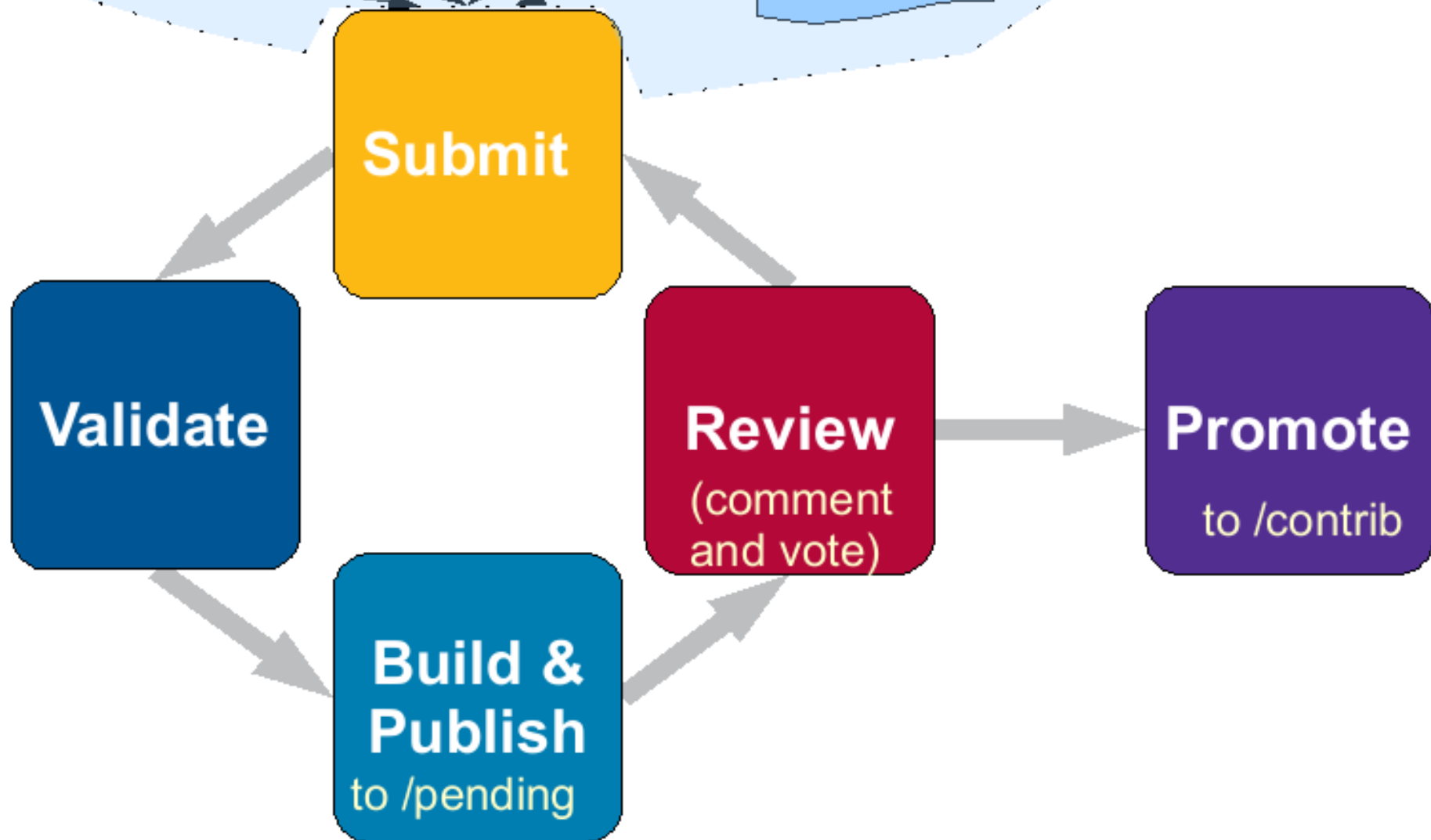
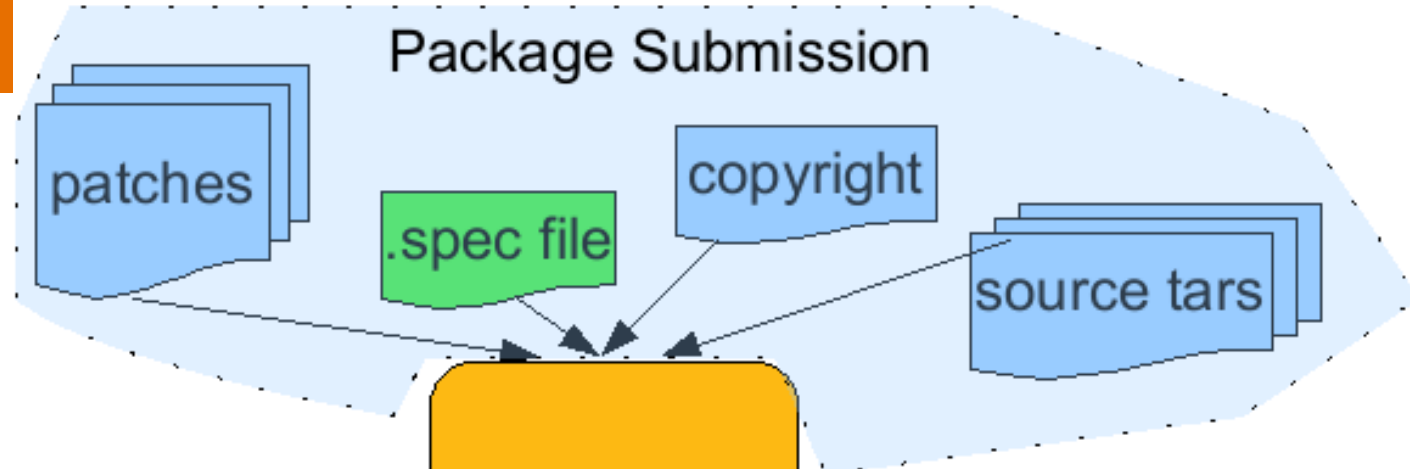
home >> review >> advancecomp.spec

Summary	
Identifier	<a href="#">advancecomp.spec</a>
Files	<a href="#">specs/advancecomp.spec</a> [ <a href="#">.diff</a> ]
Submitter	Roboporter
Submitted On	2009-05-08
Status	active
Votes	<b>+2</b> -0

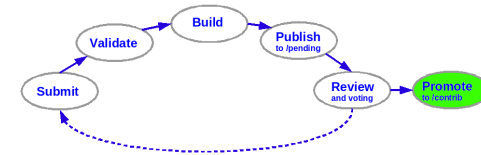
Validation	
Syntax check	OK
Name	advancecomp
License	GPLv2
Copyright tag	advancecomp.copyright
Community Website	<a href="http://packages.debian.org/source/etch/advancecomp">http://packages.debian.org/source/etch/advancecomp</a>
This package was validated by Roboporter on 2009-05-08.	

Review Activities	
 Doug Leavitt	On 2009-05-08, Doug Leavitt: <b><u>voted 1</u></b> with the following comment: Tested this by running the utility on 'zipped' files. This did not achieve further compression (We believe because the test zip files chosen could not compressed any further) but the utility did not core and showed the output correctly.
 Luis de Bethencourt	On 2009-05-09, Luis de Bethencourt: <b><u>voted 1</u></b> with the following comment: Loads of stuff coming from Roboporter. Great!

Done



# Pkg published to /contrib



Package Catalog - Mozilla Firefox 3.1 Beta 3

File Edit View History Bookmarks Tools Help

http://pkg.opensolaris.org/contrib/en/catalog.shtml

Source Juicer Package Review Package Catalog

United States | English

## opensolaris

Home >

Package Catalog

Name	Version	Install	Manifest
Cheetah	2.0.1,5.11-0.101:20081209T221828Z	Install	Manifest
Cython	0.9.8.1.1,5.11-0.101:20081209T221852Z	Install	Manifest
Xaw3d	1.5.5.11-0.111:20090902T110451Z	Install	Manifest
<b>advancecomp</b>	1.15.5.11-0.101:20090509T133331Z	Install	Manifest
alarm-clock	0.9.11.2,5.11-0.101:20081209T221629Z	Install	Manifest
alltray	0.69,5.11-0.101:20081209T221633Z	Install	Manifest
apcupsd	3.14.5,5.11-0.101:20090428T173826Z	Install	Manifest
arp-scan	1.6,5.11-0.101:20081209T221636Z	Install	Manifest
ascii2binary	2.13,5.11-0.111:20090828T133515Z	Install	Manifest
athena-jot	9.0,5.11-0.101:20081209T221640Z	Install	Manifest
atomix	2.14.0,5.11-0.101:20081209T221643Z	Install	Manifest
autotrace	0.31.1,5.11-0.101:20081209T221647Z	Install	Manifest
axel	1.1,5.11-0.101:20081209T221650Z	Install	Manifest
bandwidthcalc	0.1,5.11-0.101:20081209T221653Z	Install	Manifest
bash-completion	1.0,5.11-0.111:20090828T133418Z	Install	Manifest
bbdate	0.2.4,5.11-0.101:20081209T221656Z	Install	Manifest
bbe	0.2.2,5.11-0.101:20081209T221659Z	Install	Manifest
bcfg2	0.9.5.7,5.11-0.101:20081209T221702Z	Install	Manifest
bcpp	0.0.20050725,5.11-0.101:20081209T221708Z	Install	Manifest
bcrypt	1.1,5.11-0.111:20090828T133524Z	Install	Manifest
bdb	4.7.25,5.11-0.101:20090506T144855Z	Install	Manifest

Done

**Source Juicer Demo End**