



# MySQL University

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## OpenSolaris Web Stack

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# OpenSolaris Web Stack Project

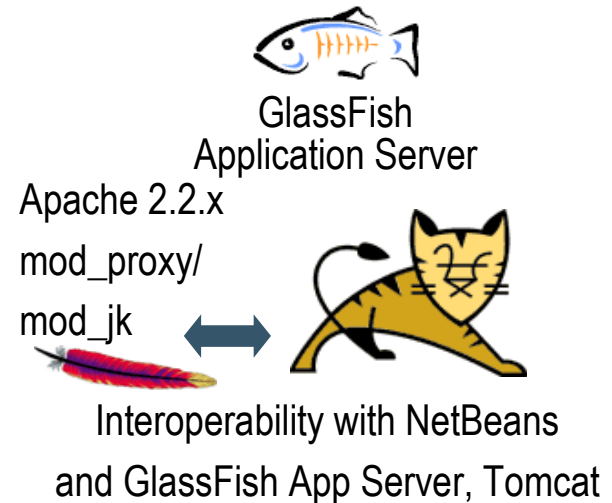
<http://opensolaris.org/os/project/webstack/>



MediaWiki, Drupal, Wordpress, Joomla – all deploy in minutes!

Project repository live!  
<http://pkg.opensolaris.org/webstack>

Web Stack is well integrated and integrateable!



# Along comes the product!

## Cool Stack 1.3.x

- Optimized, up-to-date, out of the box set of components for Solaris 10
- Developer support

## OpenSolaris Web Stack

- Up-to-date components integrated into OpenSolaris codebase and distro
- Integrated with developer tools
- No support



## Sun Web Stack 1.4

- Quick to “bootstrap”, up-to-date components for
  - Solaris 10 (unbundled)
  - OpenSolaris (bundled)
  - Red Hat Enterprise Linux
  - Ubuntu Server LTS
- Developer and Production support

# Sun Web Stack 1.4

Apache HTTP Server	2.2.9	<ul style="list-style-type: none"> <li>• PHP 5.2.6 with extensions such as:           <ul style="list-style-type: none"> <li>– Apache SAPI, MySQL, PostgreSQL;</li> <li>– Suhosin, APC (cache), DTrace,</li> <li>– memcached , pdflib, freetype ,</li> <li>– PEAR/PECL and many more.</li> </ul> </li> </ul>
lighttpd	1.4.19	
memcached	1.2.5	<ul style="list-style-type: none"> <li>• Ruby 1.8.6. Rails 1.2.3 and gem 0.9.0, Mongrel 1.0.1, fcgi package, RedCloth (text parsing)</li> </ul>
mod_jk	1.2.25	
mod_perl	2.0.2	
mod_ruby	1.2.6	
MySQL	5.0.45	
PHP	5.2.6	
Python	2.4.4	
Ruby	1.8.6 p287	
Squid	2.6.STABLE17	
Tomcat	5.5.26	
GlassFish	V3 Prelude	

# Planned Distributions

Distributed in “technology profiles”:

**Standalone profile** (not integrated into the operating system) for Solaris 10 and Linux, others (future)

- OS Native Packages, viz., SVR4 pkgs or RPMs  
Multi-platform support
  - Solaris 10 Update 5 or later, SPARC and x86
  - Red Hat Enterprise Linux 5 Update 2 or later, x86
  - Ubuntu 8.04 LTS Server Edition, x86
- SWI/JES v6 Multi-platform IPS, Update Center 2.0

**Integrated profile** (OpenSolaris Package Repository)

- OpenSolaris users obtain and update Web Stack 1.4 from their native package repository

# OpenSolaris Alignment

Functionally, Web Stack 1.4 is a proper subset of OpenSolaris 2008.11

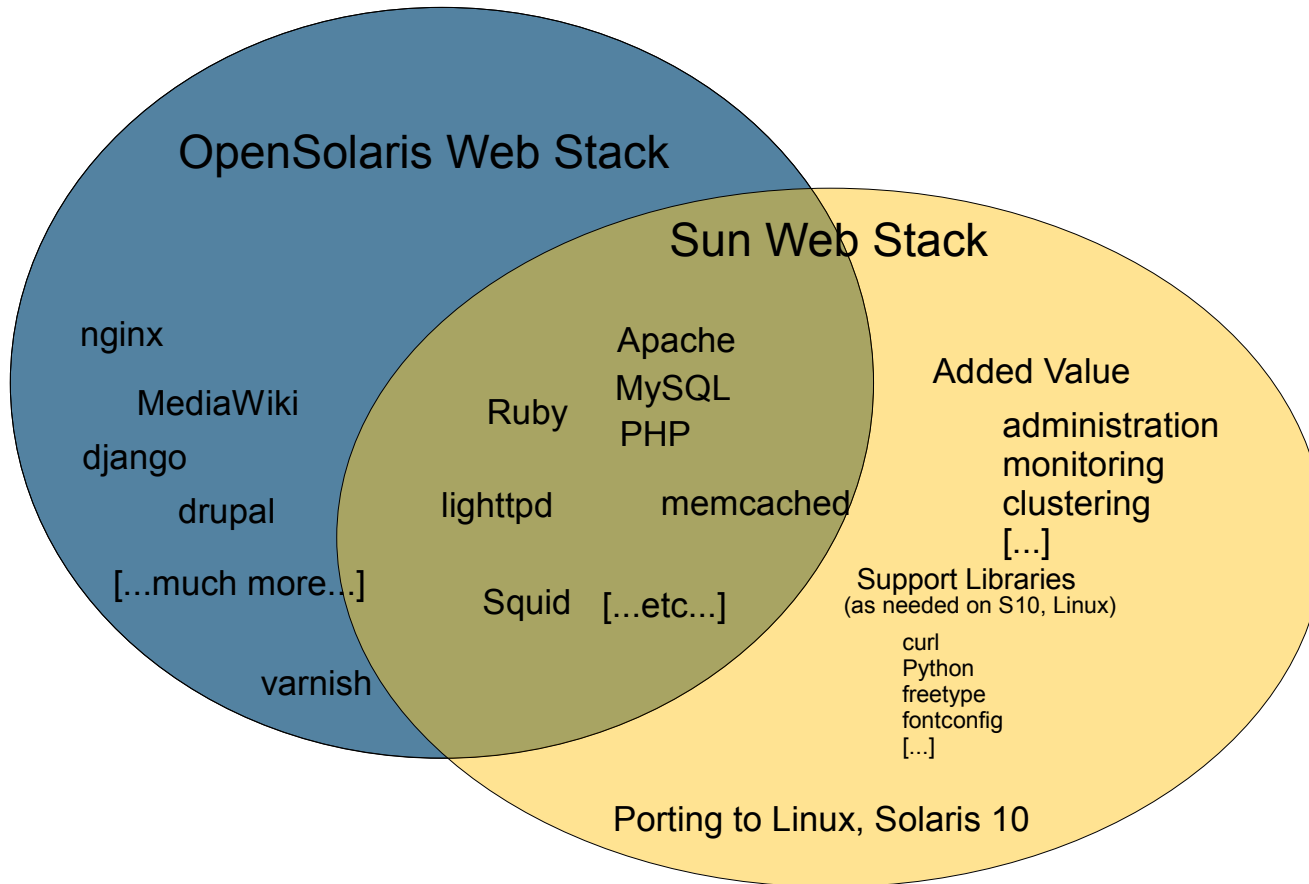
The Web Stack 1.4 product for OpenSolaris is essentially a support offering for the key AMP / Web 2.0 components in the OpenSolaris repository

Functional content in Web Stack 1.4 will be frozen in time for 2008.11

- Build 100 on September 26

*Note: The OpenSolaris Web Stack Project supports many packages which are not considered part of the Web Stack 1.4 product.*

# Two Web Stacks: Component View



# Web Stack Value

Eliminate the complicated “boot-strap” needed to run common application stacks:

- AMP: Apache, MySQL, PHP
- MARS: MySQL, Apache, Ruby on Rails, Solaris
- Python/Django

Provide Standard Software Support/Subscription options

- Production support
- Developer support to ease cross-sell to other Sun technology

Value added capabilities

- Integration with Solaris DTrace where possible
- Administration and management value add
- Developer ease-of-use and integration with tools

# Sun Web Stack Value Adds

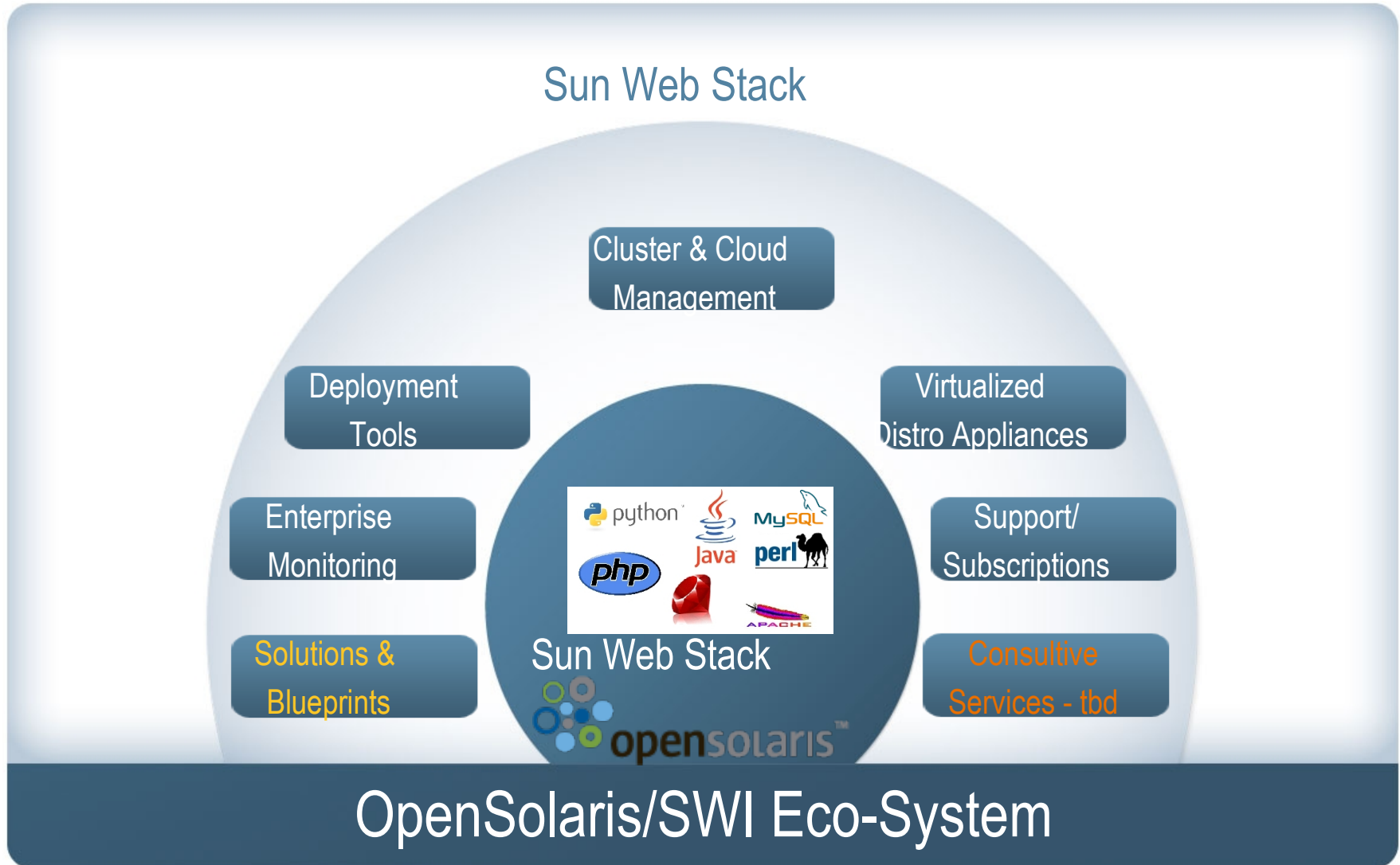
(v1.4 and beyond)

Sun Web Stack provides core server technology

Value adds are separate offerings that bring additional functionality

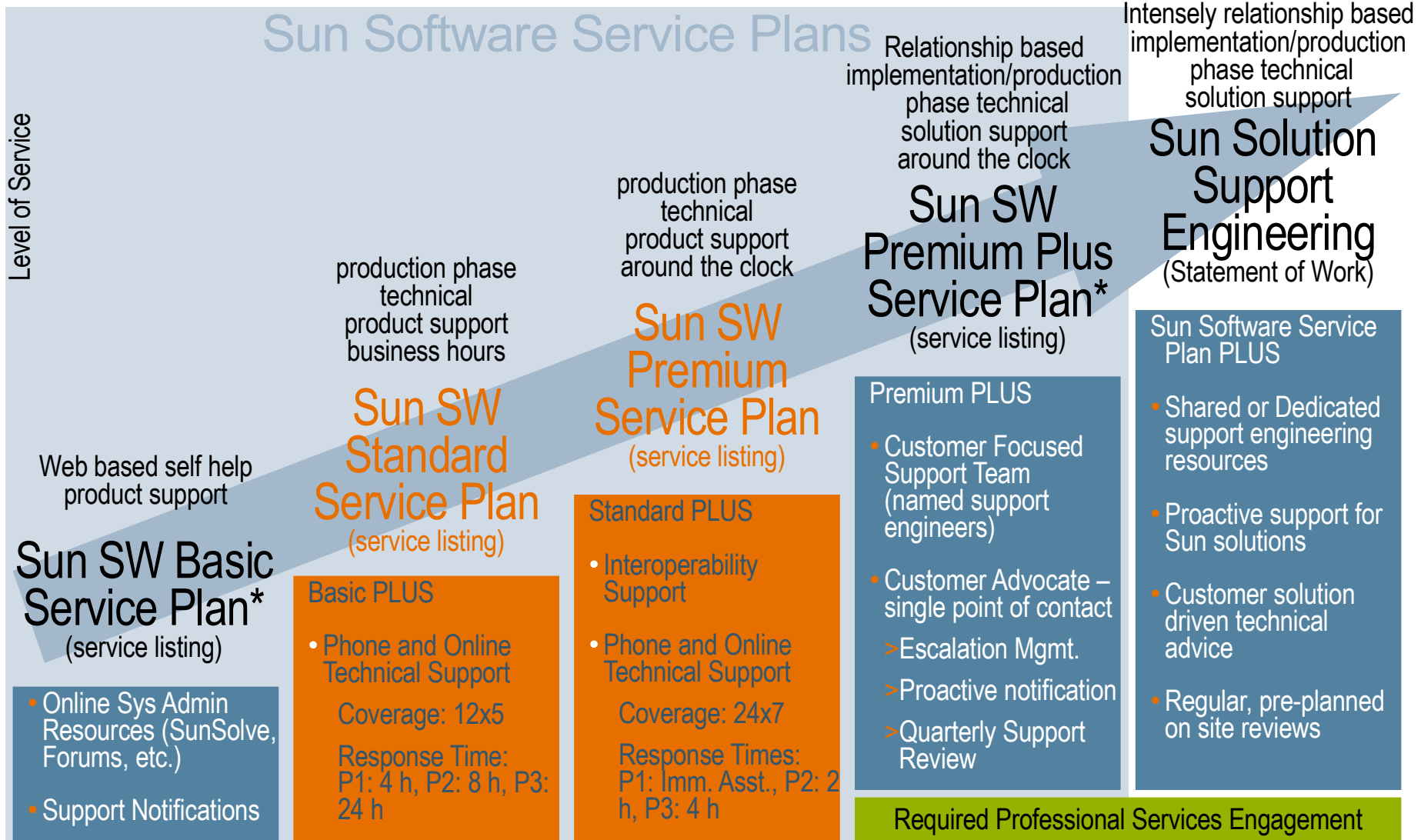
- Will have own part numbers
- May not be all open source
- Will be set of tools that cater to particular user profiles (initially targeted profiles are System Admin, Site Admin, Content / Application Developer)
- Value adds (e.g. management/monitoring solutions) will be delivered incrementally
- Partners will receive some form of incentive (special pricing, service, etc), but it is TBD what form this will take

# Sun Web Stack, Value Add rings



# Services & Licensing (Support)

## Standard Middleware Model



\* Available for certain products

# Performance/Quality/Interop Plans

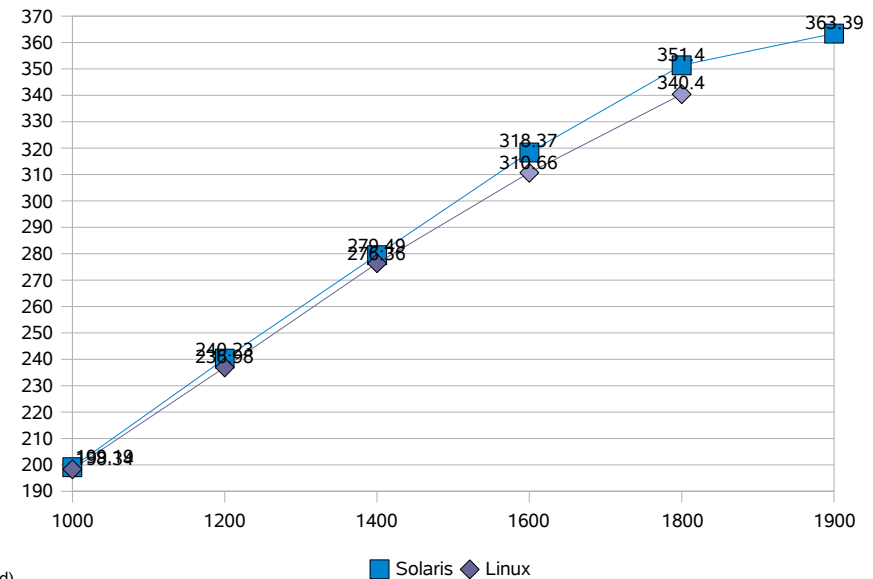
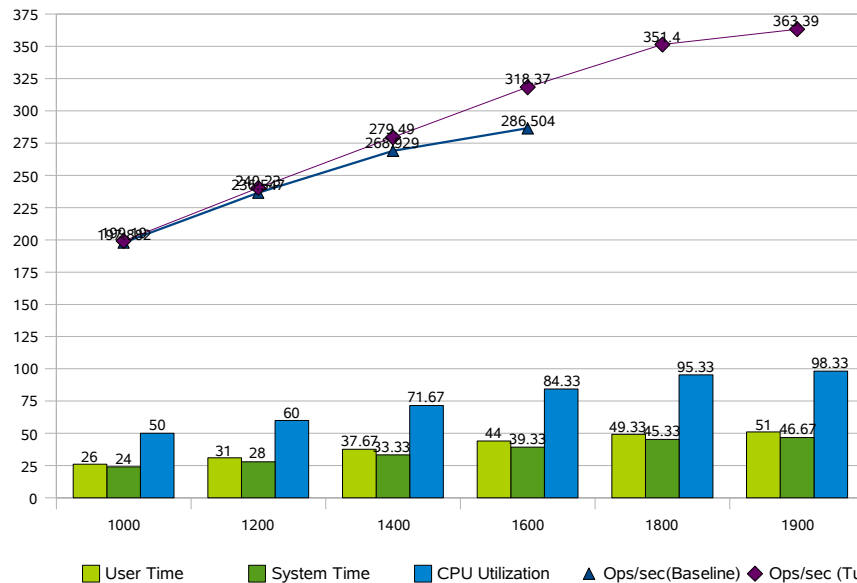
## Sun Web Stack 1.4 (short term)

- All platforms:
  - > Exceed performance of naive builds
  - > Proper selection of build options and compiler flags
  - > Improved default configurations
- Solaris 10/OpenSolaris:
  - > Match or exceed performance of Cool Stack 1.3 (except for MySQL version mismatch)
- Quality – Focus on interoperability and system/integration testing; will rely on upstream testing for functional testing.

# Performance Facts/SAMP vs LAMP

## Cool Stack 1.3 – Apache/PHP/MySql/Memcached

- Workload – Web 2.0 kit/PHP
- Server – Sun Fire X4200 M2
  - > 2 x AMD Dual Core Opteron 2.8GHZ, 8GB Memory
- Solaris 10 U4 performs a shade better than RHEL 5.1 (prefork mpm)
- Newer MySQL 5.1, APC, tuned stack performs better than baseline



# Web Stack Communities Participation

Community	Who	Role	Committership
<b>Apache HTTP server - <a href="http://httpd.apache.org/">http://httpd.apache.org/</a></b>			
	Nick Kew	Apache committer, ASF member	Project committer
	Basant Kukreja	Performance, mod-sed filter, bug fixes	
	Rahul G Nair	Apache modules, bug fixes	
	Seema Alevoor	Apache mpms, bug fixes	
	Jeff Trawick	Apache committer, ASF member	
	Davi Amaut (MySQL)		Project committer
<b>PHP.net - <a href="http://www.php.net/credits.php">http://www.php.net/credits.php</a></b>			
	Sriram Natarajan	Integration, extensions, performance & bug fixes	Ontrack [CY08?]
	David Soria Parra[TBH]	PHP.net community	Project committer
	Johannes Schlüter (MySQL)	OSOL Web Stack observer	Project committer
	Victoria Reznichenko (MySQL)		
	George Ritcher (MySQL)		Project committer
<b>SQUID [proxy server]- <a href="http://www.squid-cache.org/">http://www.squid-cache.org/</a></b>			
	Rahul G Nair	OpenSolaris integration	
	Adrian Chad	Lead, OSOL Web Stack observer (like to hire)	Project committer
<b>Varnish [reverse proxy] - <a href="http://varnish.projects.linpro.no/">http://varnish.projects.linpro.no/</a></b>			
	Jyri Virkki	OpenSolaris IPS delivery	
<b>lighttpd -<a href="http://www.lighttpd.net/">http://www.lighttpd.net/</a></b>			
	Amanda Waite (ISVe)	OpenSolaris Web Stack integration	
	Jan Kneschke (MySQL)	Lead/Creator, OSOL Web Stack observer	Project committer
	Ari Srinivasan	Sun Web Server value adds, architectural	
<b>Ruby On Rails - <a href="http://www.rubyonrails.org/">http://www.rubyonrails.org/</a></b>			
	Prashant Srinivasan (ISVe)	OpenSolaris Web Stack integration	
<b>MySQL/memcached (<a href="http://mysql.com">http://mysql.com</a>, <a href="http://www.danga.com/memcached/">http://www.danga.com/memcached/</a>)</b>			
	Lars Hiell, Sunanda M (ISVe)	OpenSolaris Web Stack integration	
	Roy Lyseng/Trond Norbye (DBG)	OpenSolaris Web Stack integration	
	Brian Aker (MySQL)		Project committer
<b>Python</b>			
	Brian Overstreet	OpenSolaris IPS delivery	

# Roadmap Details

- OpenSolaris 2008.11 Web Stack (Q2 FY09)
  - > New and updated components, content mgt. frameworks (MediaWiki, Joomla!, Drupal, etc.), optimized for OpenSolaris and made available through a network repo.
- Sun Web Stack 1.4 (Q2 FY09)
  - > Production supported product offering, two profiles
  - > Integrated Profile: OpenSolaris x86 and SPARC
  - > Stand-alone Profile: Solaris 10 x86 and SPARC, Linux
  - > Sun standard Software support/subscription offerings

# Drupal Installation Demo

- Theme: Ease of use
- Core package (`drupal`)
  - > Everything needed for production system
- Evaluation/demo package (`drupal-demo`)
  - > Adds quick-start convenience for testing | evaluating | demonstrations
  - > Automated setup means making assumptions for which may not be true for production use, thus separation from core production package
    - (e.g. MySQL on localhost)

# More Information

## 1. OpenSolaris Web Stack project & forum

<http://opensolaris.org/os/project/webstack/>

<http://www.opensolaris.org/jive/forum.jspa?forumID=200>

## 2. Web Stack project repository & blog:

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

[http://blogs.sun.com/jyrivirkki/entry/web\\_stack\\_repository\\_updates](http://blogs.sun.com/jyrivirkki/entry/web_stack_repository_updates)

## 3. Sun Web Stack 1.4 Announcement:

<http://www.sun.com/aboutsun/pr/2008-07/sunflash.20080723.3.xml>

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[webstack-discuss@opensolaris.org](mailto:webstack-discuss@opensolaris.org)

*Thank You!*

*Merci!*

*Danke!*

*Tack!*

*Gracias!*

*Kiitos!*