



Welcome to GlassFish Day Jazoon 2009

Sun Microsystems





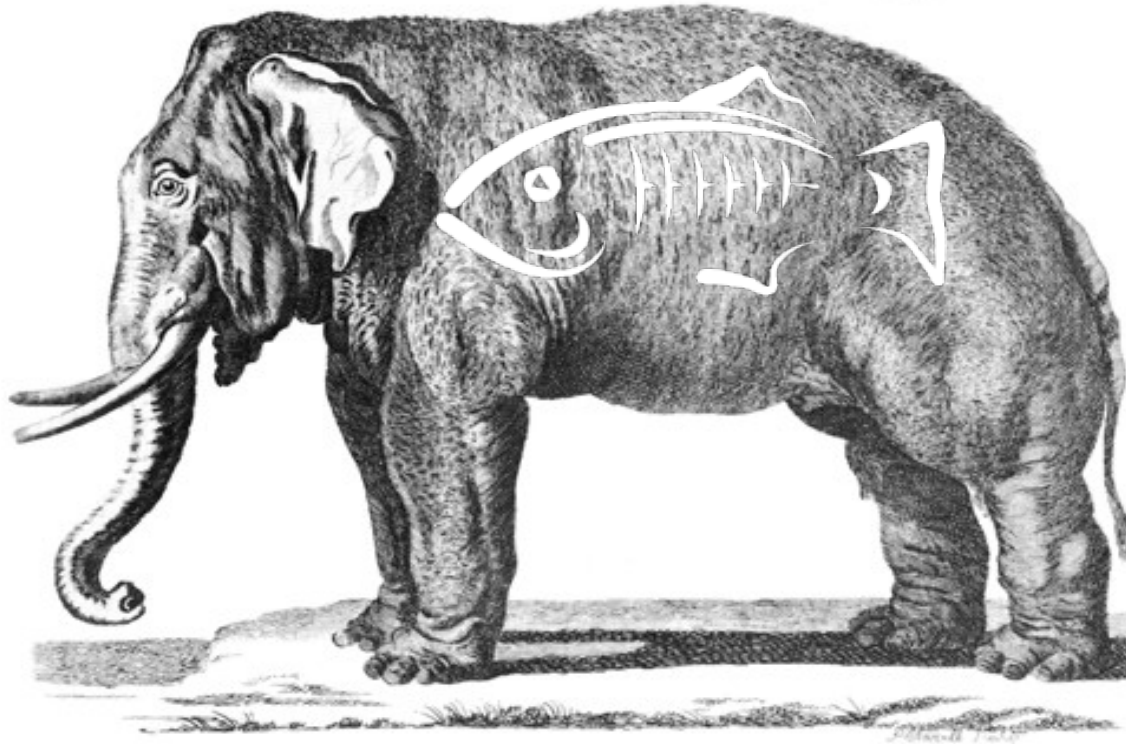
GlassFish

A world of opportunities

Alexis Moussine-Pouchkine
Sun Microsystems



The Elephant In The Room



Here's what I can ...



Show



Say

Business As Usual

Business As Usual

=

Participate in an active community

+

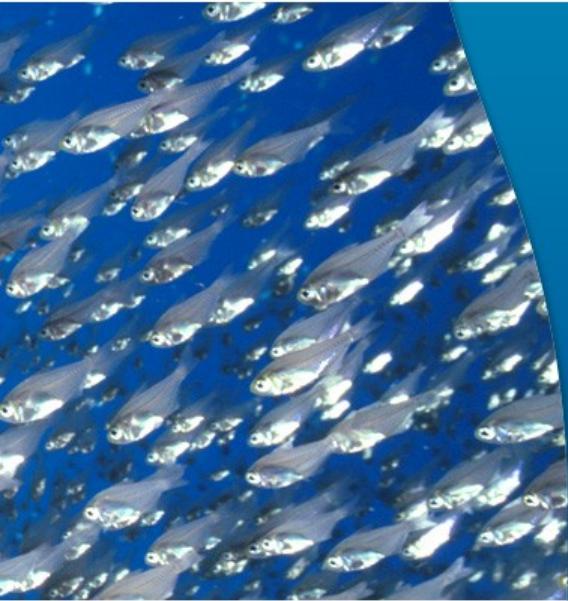
Create a Great Product

+

Kick Competitive Butt

Any Questions?

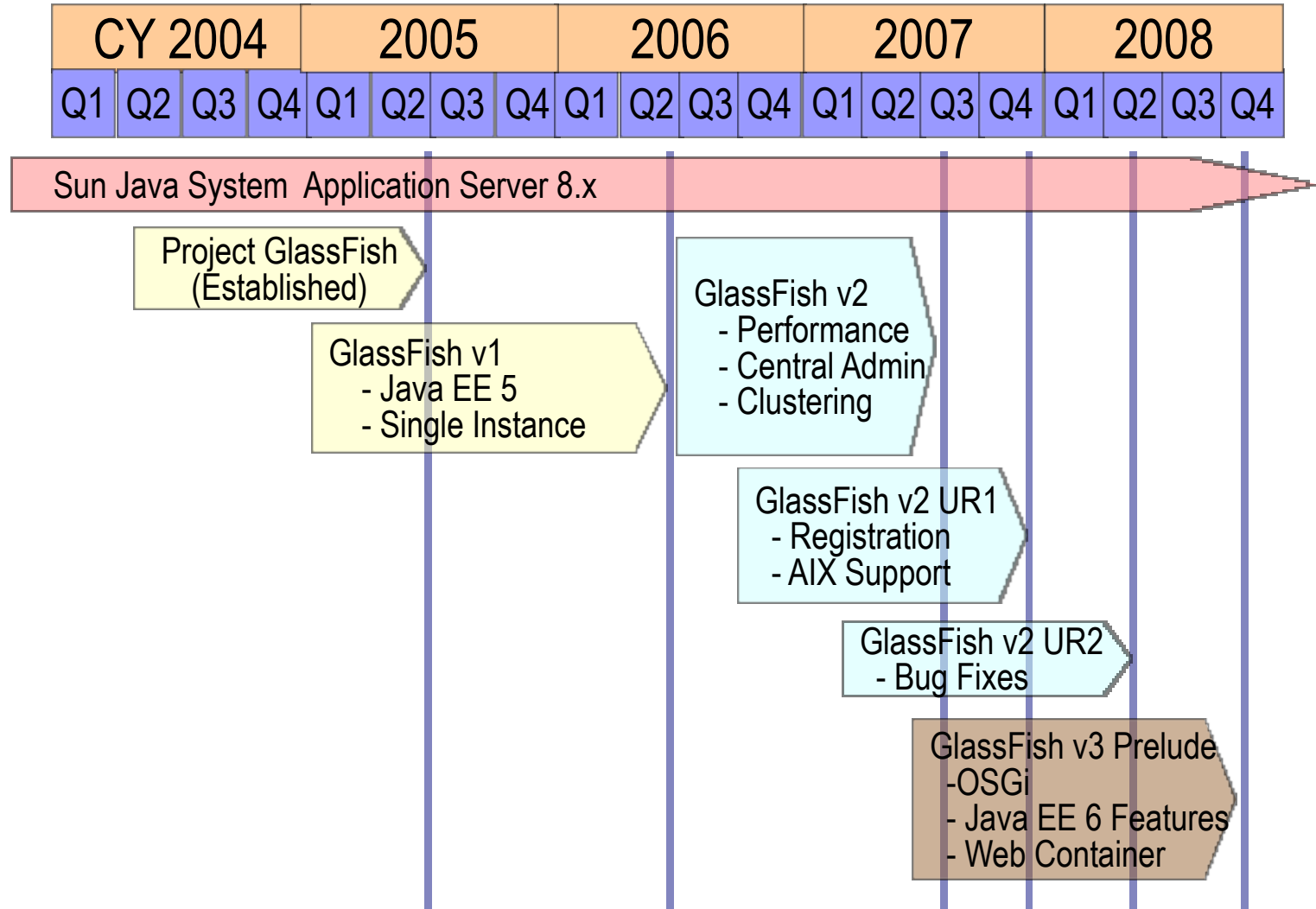




GlassFish Enterprise Server Roadmap

The History of the World

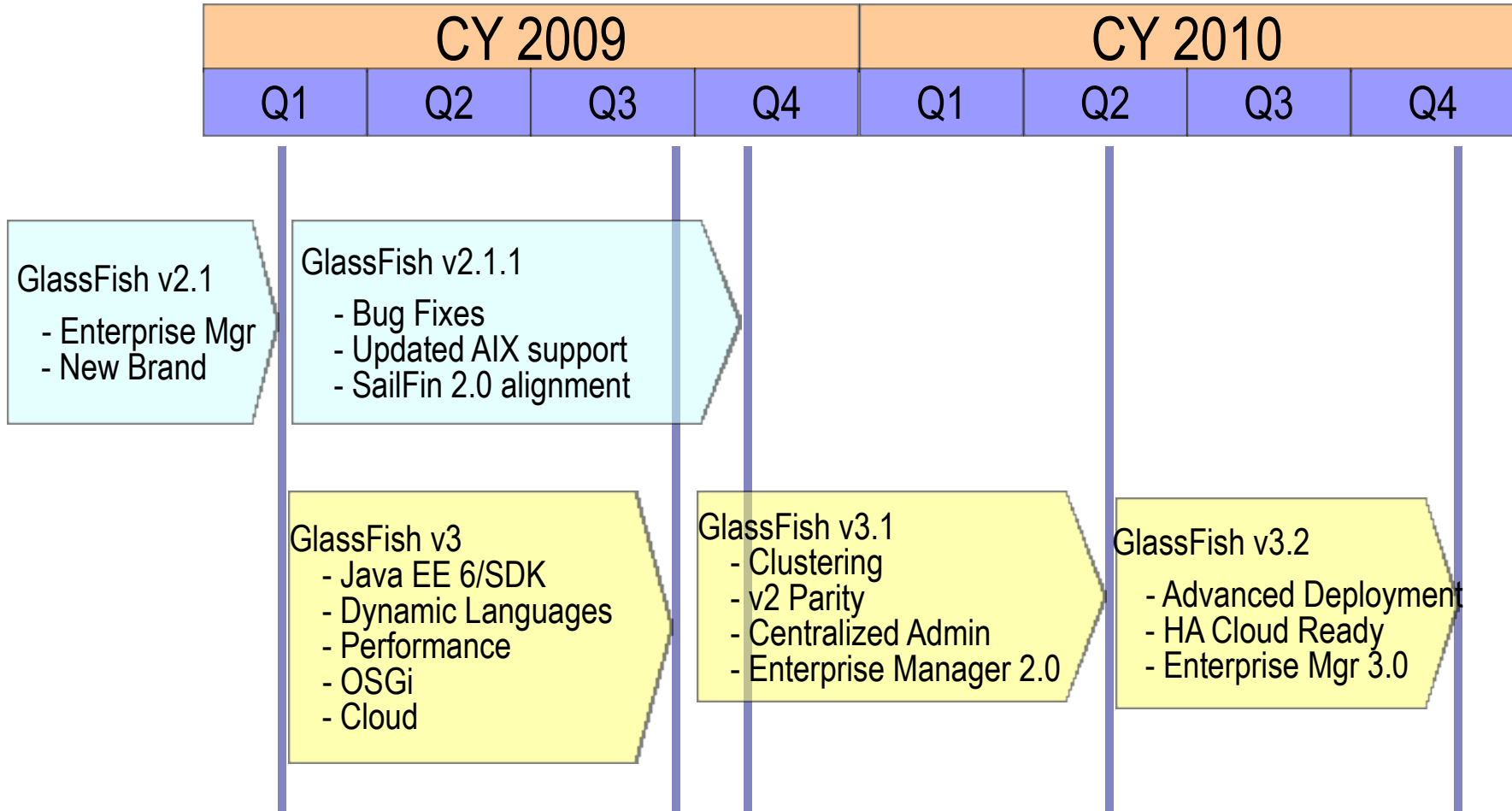
According to 

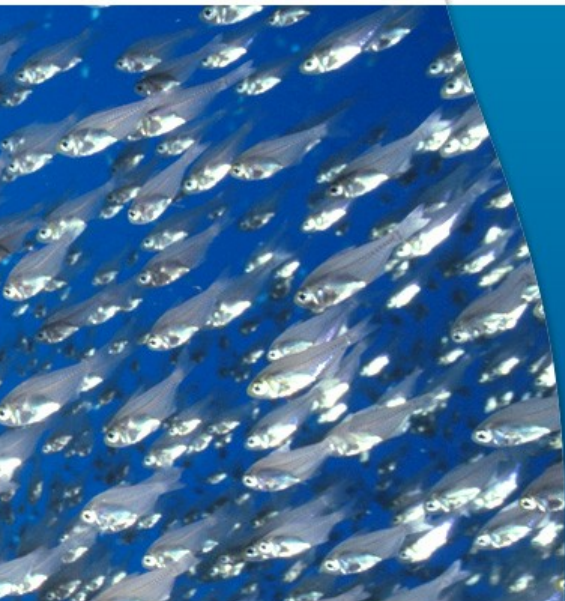


GlassFish v3 Preview
now available !

The Future of the World

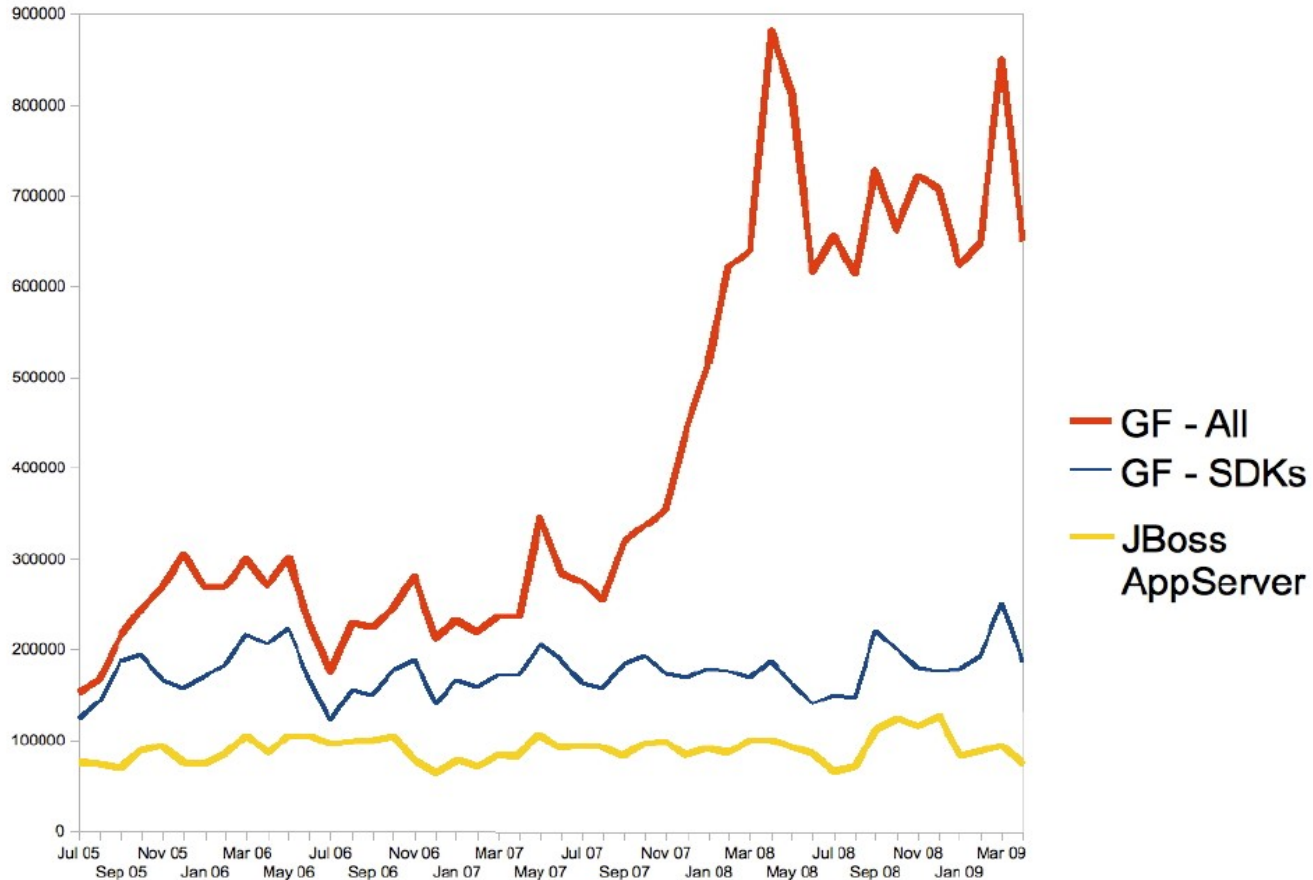
According to 





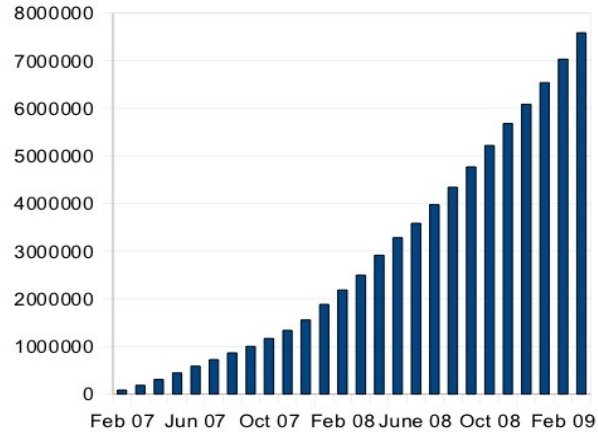
Leading Indicator **TRENDS**

GlassFish Downloads

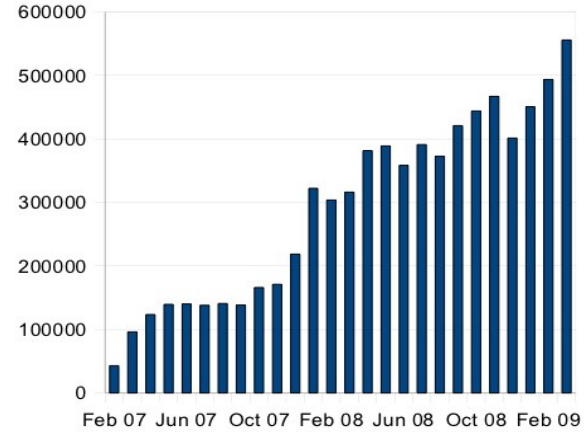


Actual Usage

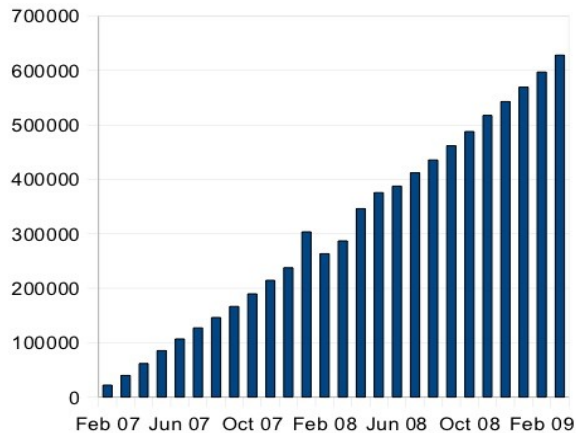
Total Hits



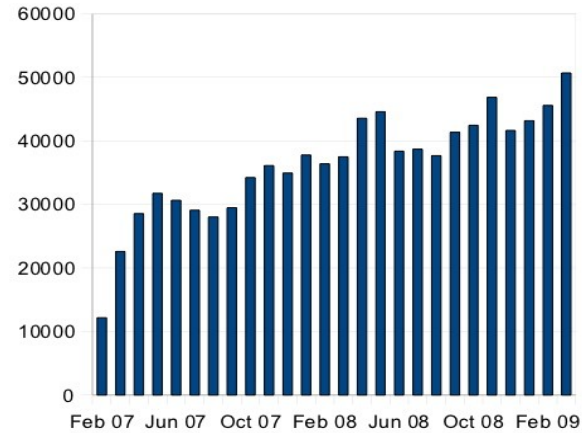
Monthly Hits



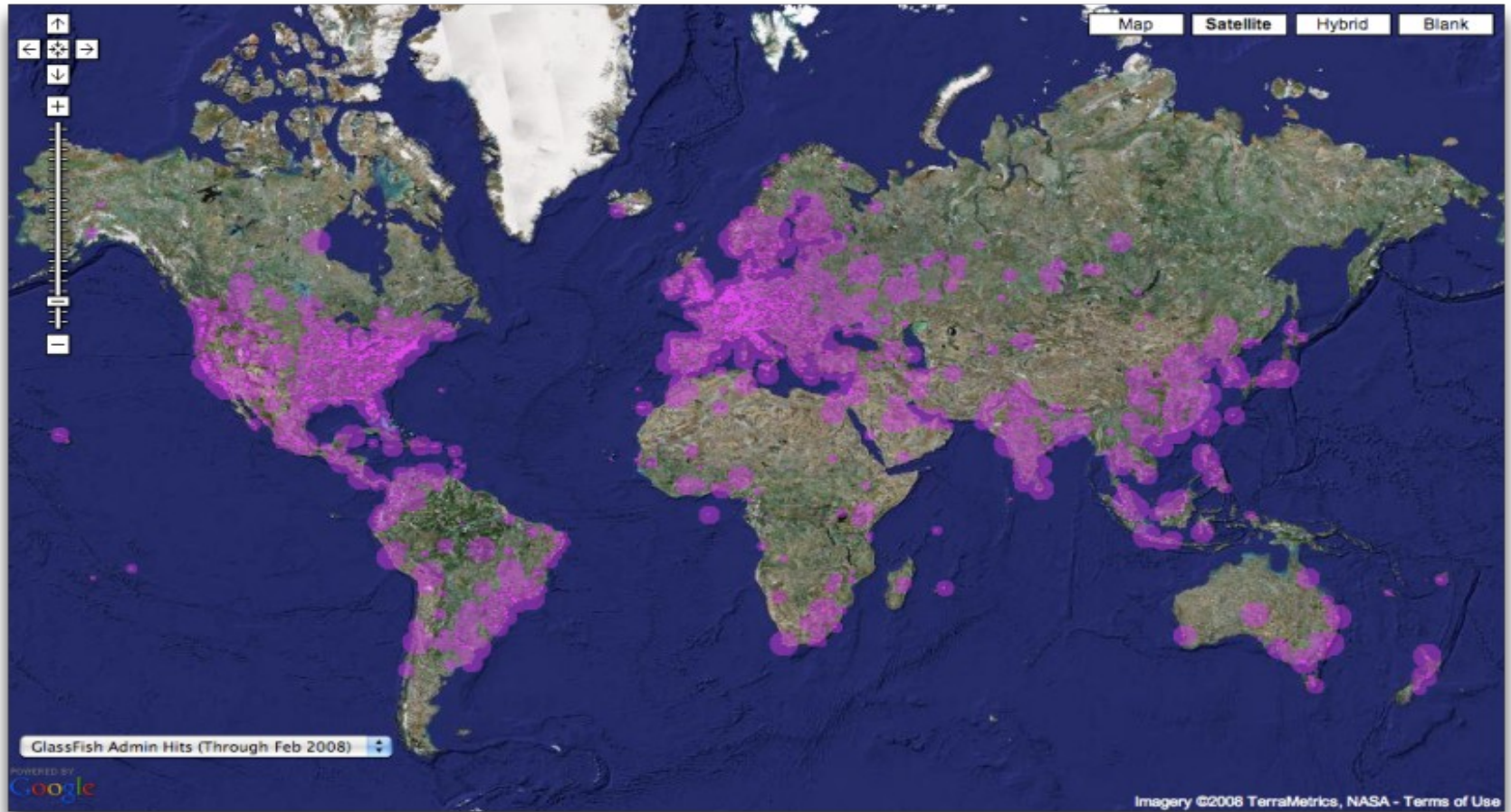
Total IPs



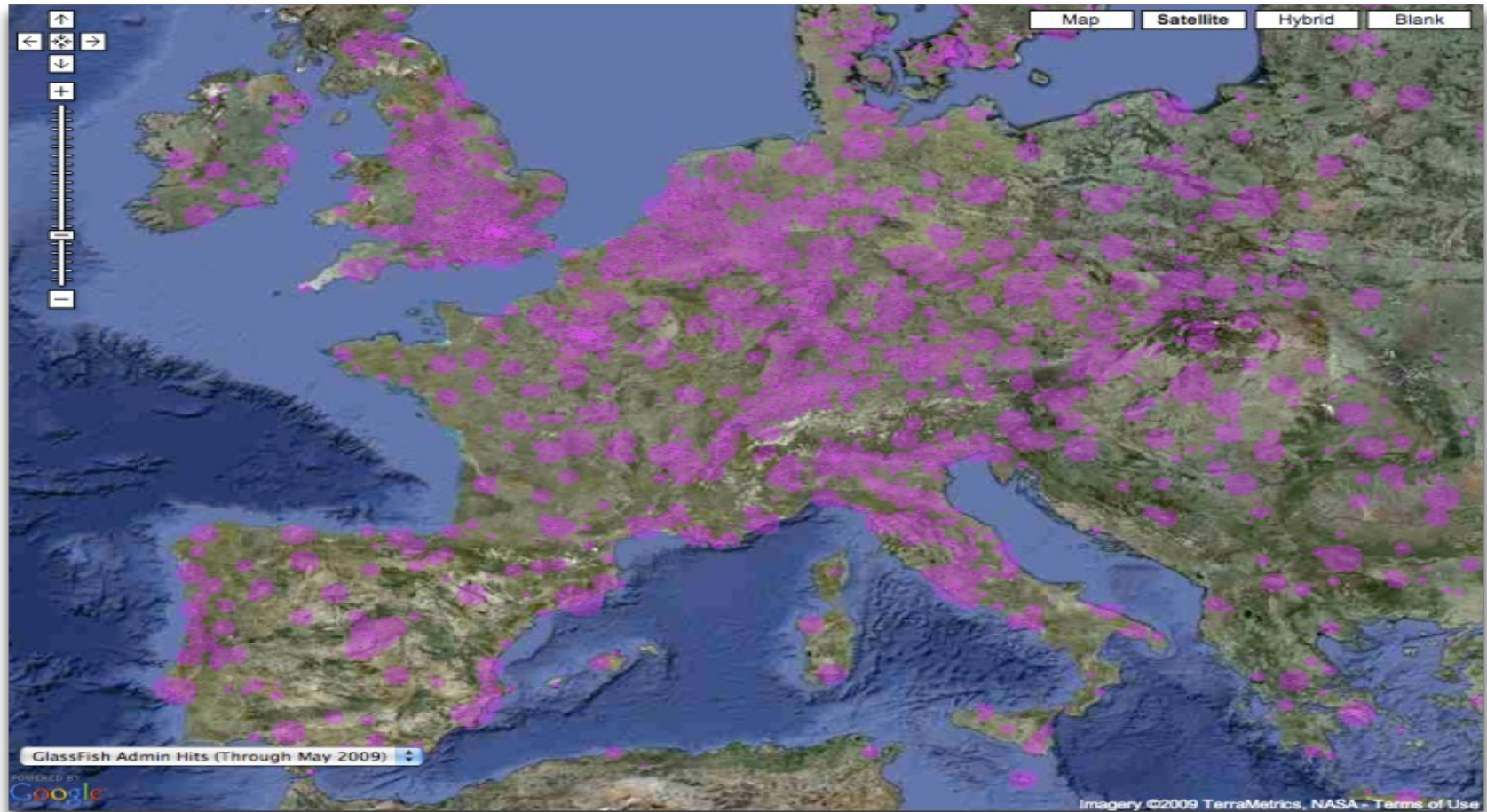
Monthly IPs



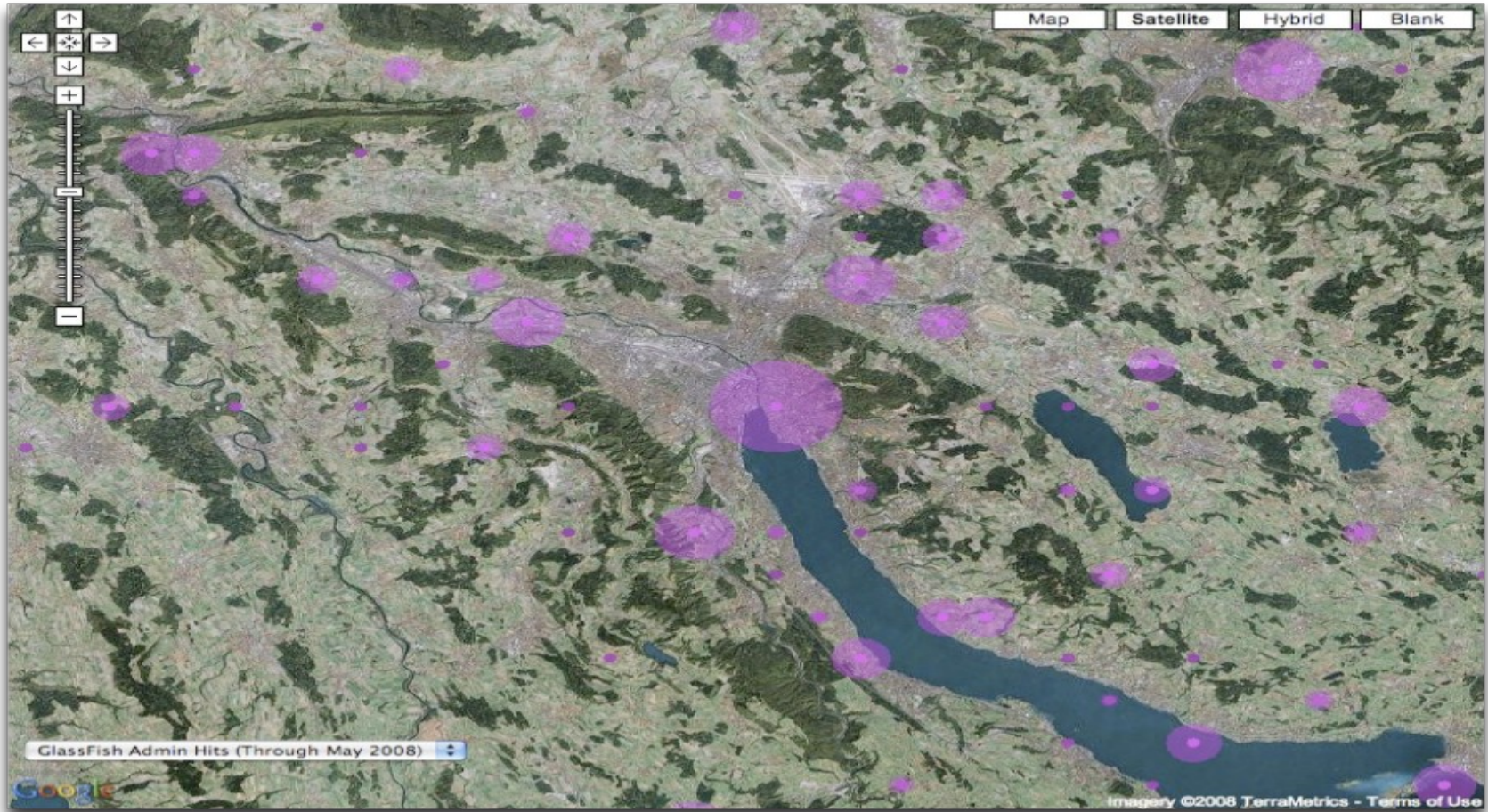
GlassFish around you



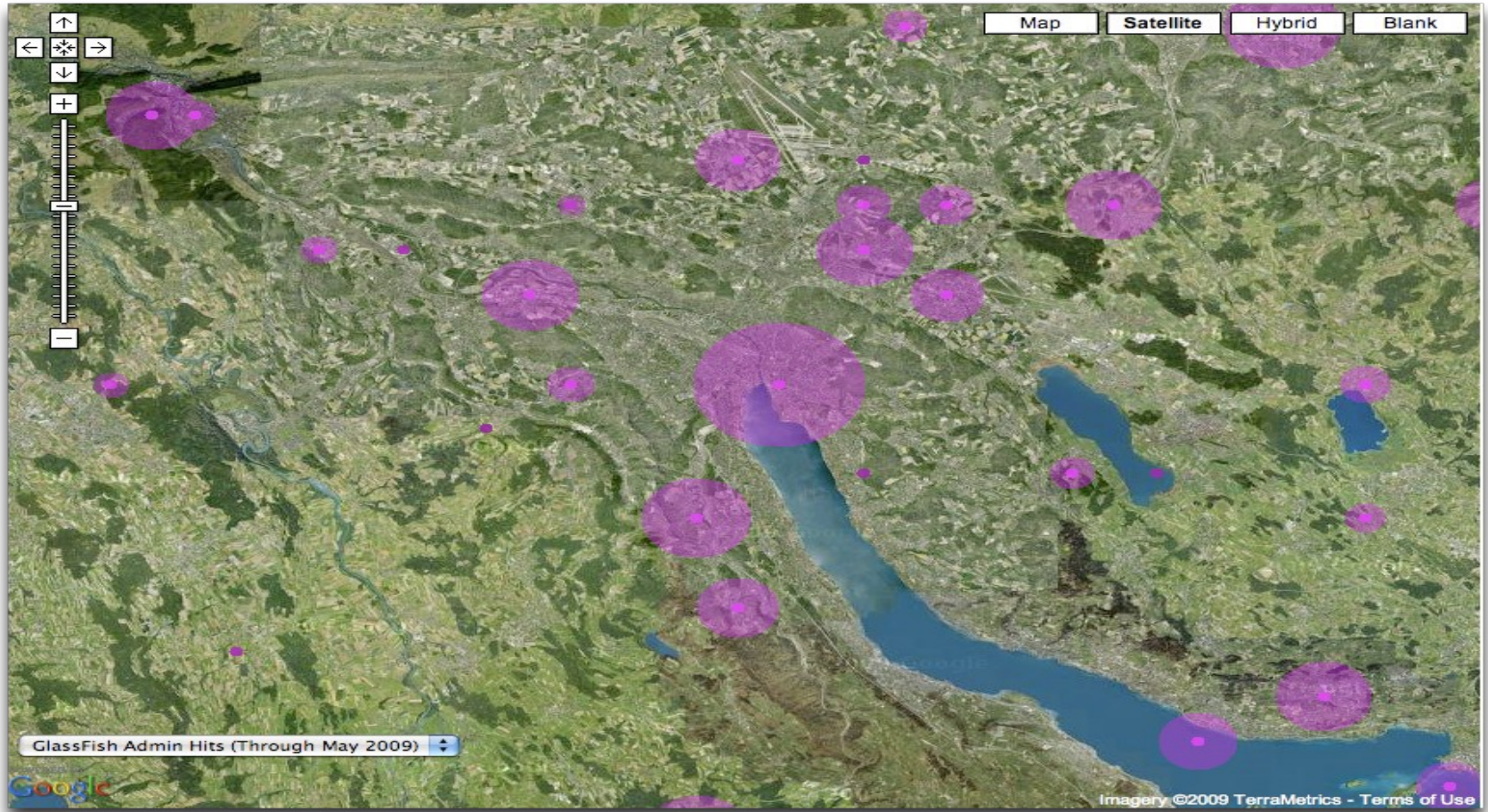
GlassFish around you (really)



GlassFish around you (really)



GlassFish around you (really)

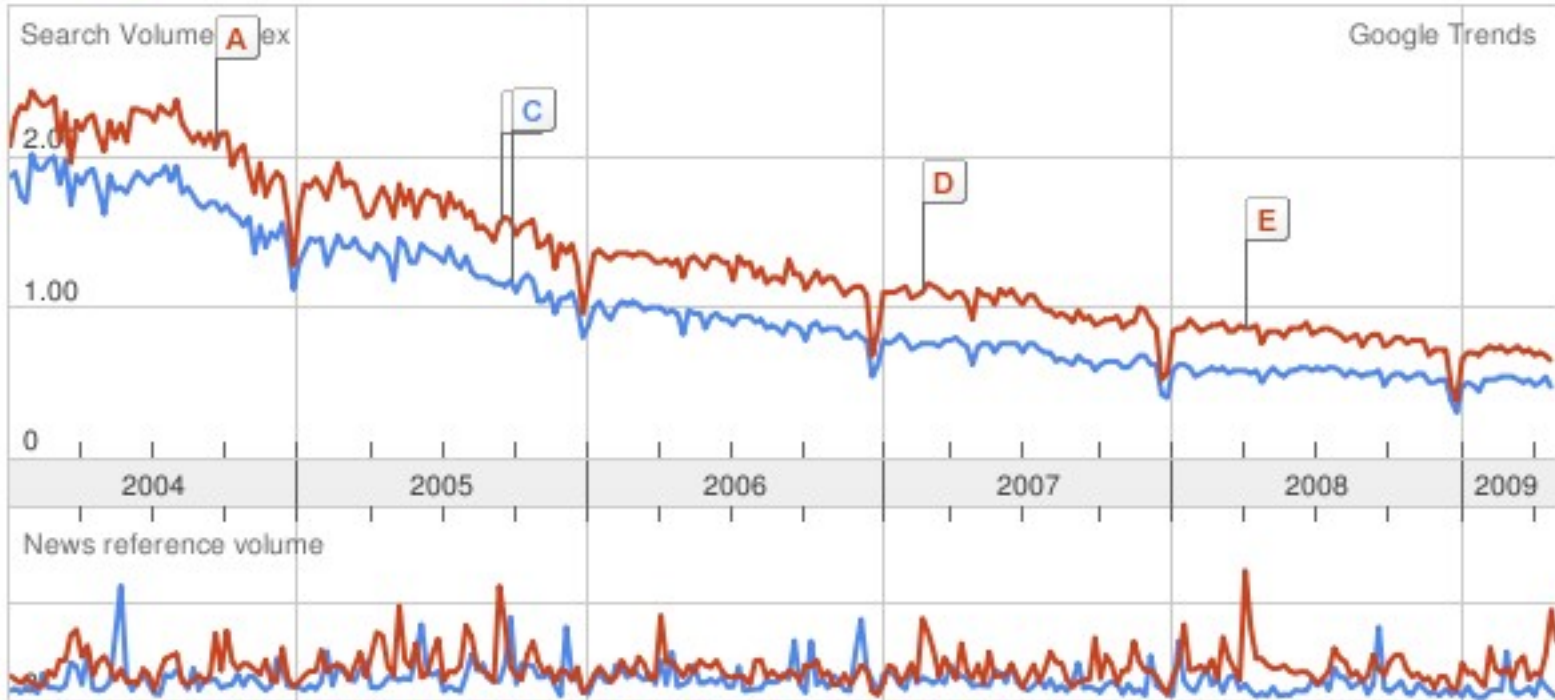


Google Trends

Websphere, WebLogic



weblogic 1.00 websphere 1.32



Google Trends

Websphere, WebLogic, JBoss

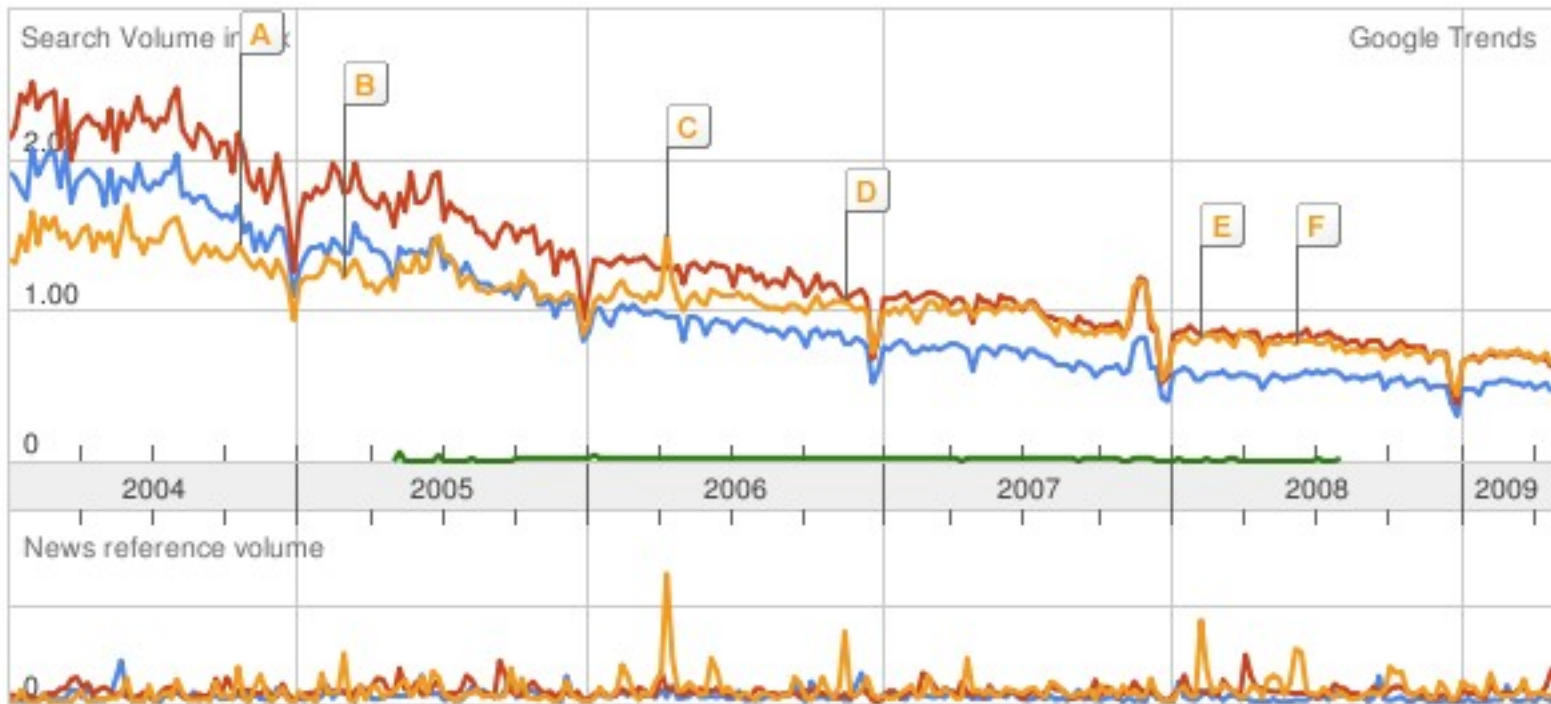


Google Trends

Geronimo?



"apache geronimo" 10



Google Trends

Tomcat? Losing ground

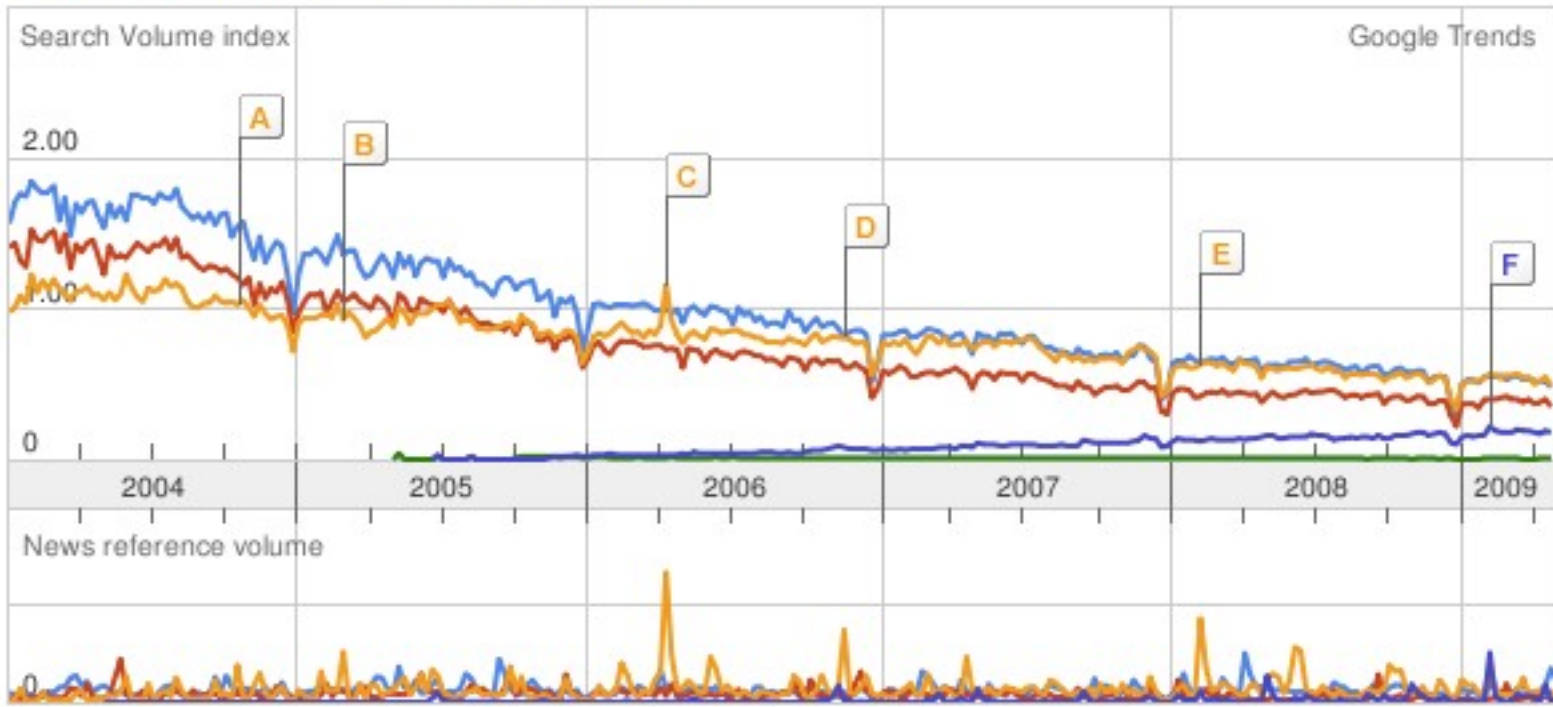


Google Trends

GlassFish!

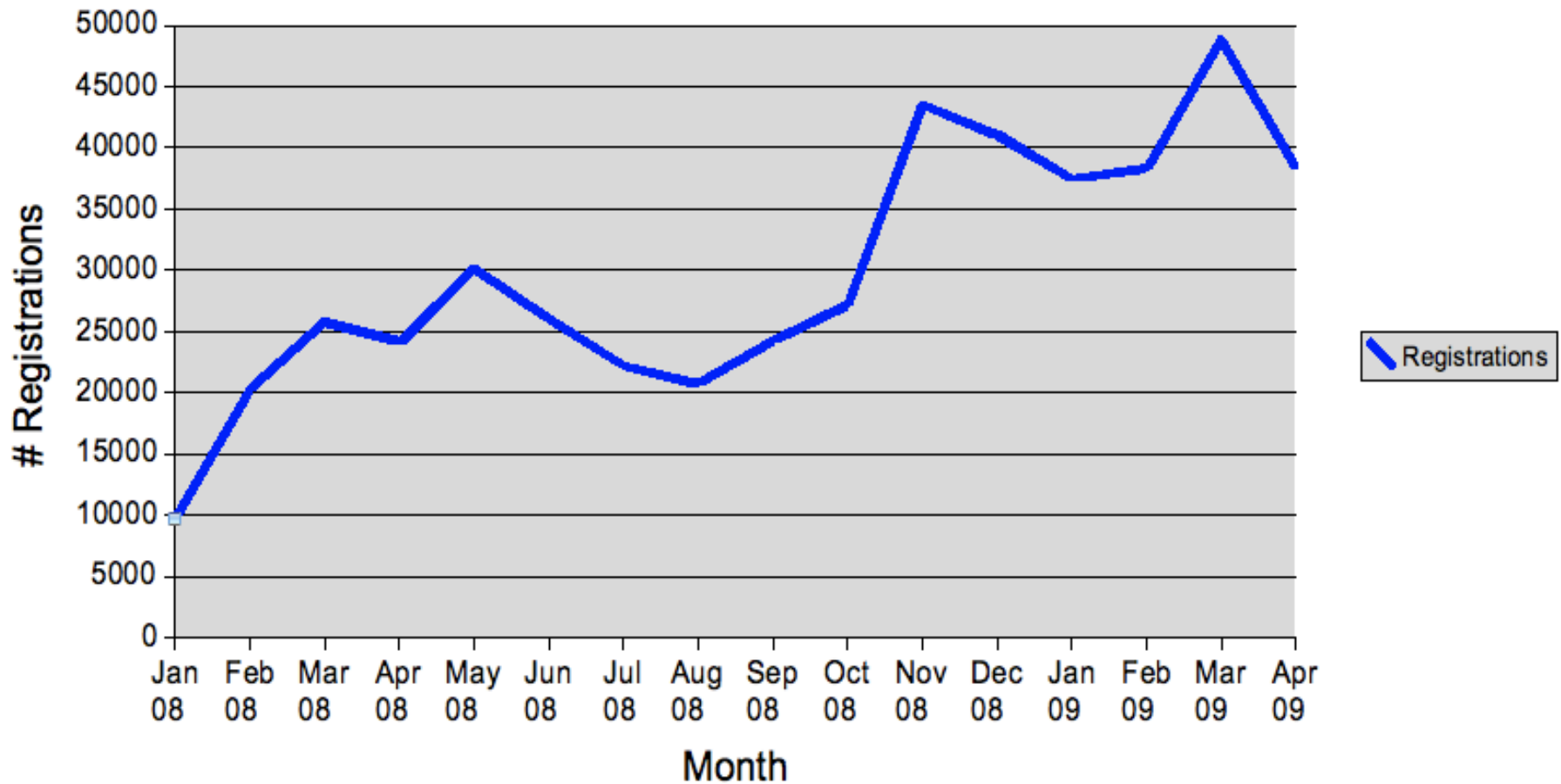


webspere — 1.00 webllogic — 0.76 jboss — 0.80
 "apache geronimo" | 0.01 glassfish ■ 0.06



Registrations

GlassFish Registrations



Data Analysis by Ohloh

Map Open Source Development



- Founded in 2004
- Tracks 3,500 forges
 - > 38K projects
 - > 250K developers

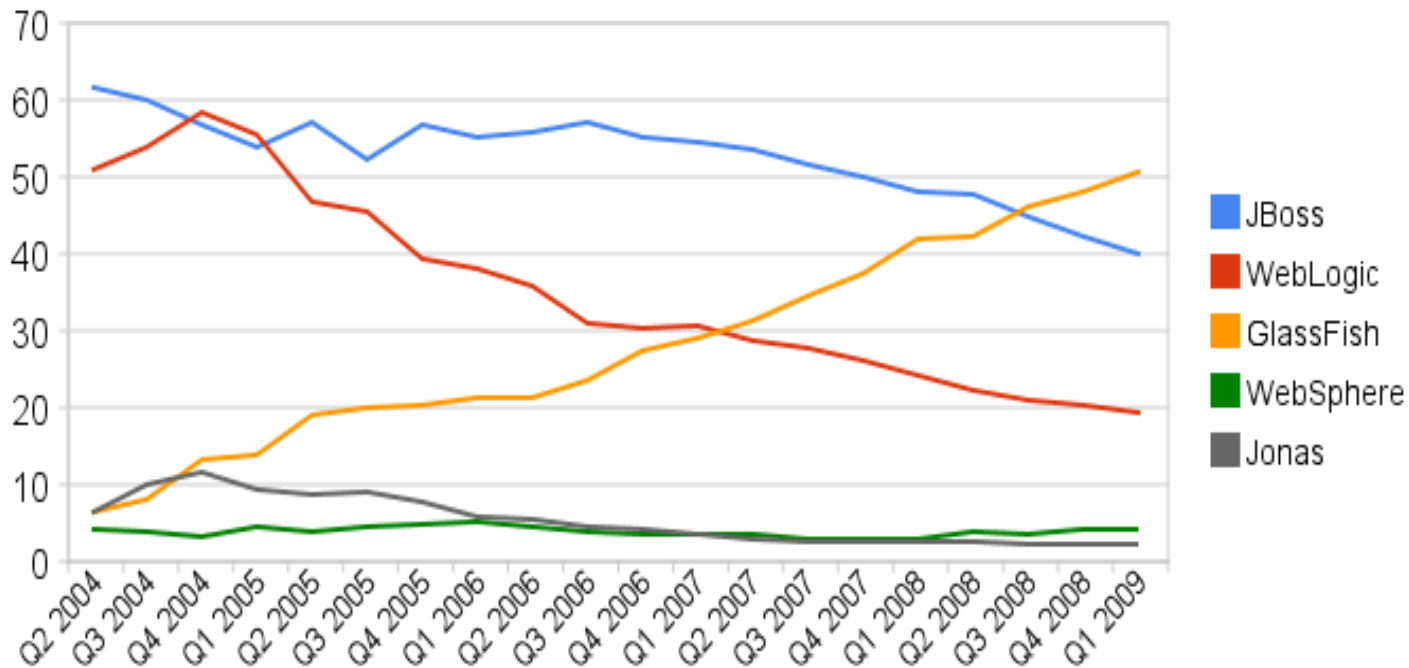


AppServer Usage

Based on Deployment Descriptor



Java Deployment Descriptors, as % of Projects with Deployment Descriptors



Billings disclosure by category

(\$Millions)	Q307	Q407	FY07	Q108	Q208	Q308	Q408	FY08	Q109	Q209	Q309
Systems Billings											
Solaris SPARC Enterprise Servers	762	1,076	3,388	793	978	702	939	3,413	576	662	504
Change % Y/Y	-9	1	2	23	8	-8	-13	1	-27	-32	-28
Solaris SPARC CMT Servers	142	220	608	185	282	299	353	1,119	338	369	309
Change % Y/Y	218	84	237	70	105	110	61	84	83	31	3
X64 Servers	162	192	684	169	157	186	195	707	176	175	145
Change % Y/Y	36	28	44	10	-11	14	1	3	4	11	-22
Other Systems Products	388	462	1,737	356	367	282	286	1,292	156	130	83
Change % Y/Y	-21	-23	-19	-15	-21	-27	-38	-28	-56	-85	-70
Subtotal**	1,455	1,950	6,418	1,503	1,785	1,469	1,774	6,530	1,246	1,336	1,041
Change % Y/Y	-3	1	5	13	6	1	-9	2	-17	-25	-29
Software Billings											
Java	60	94	219	29	45	57	88	220	34	67	73
Change % Y/Y	5	17	13	21	10	-4	-6	1	18	-7	27
MySQL / Infrastructure	50	74	198	25	52	40	91	208	52	81	80
Change % Y/Y	79	35	43	-17	16	-20	26	5	111	55	101
Solaris, management and virtualization	52	55	221	44	59	49	64	216	38	42	34
Change % Y/Y	3	2	12	-12	-10	-4	16	-2	-14	-20	-30
Subtotal**	162	223	639	97	156	147	244	644	124	189	187
Change % Y/Y	20	18	20	-6	3	-9	9	1	27	21	28
Computer Systems Reserves and Adjustments**	-117	-320	-602	-126	-347	-142	-295	-910	-114	-156	-135
Total Computer Systems Revenue***	1,500	1,853	6,455	1,475	1,594	1,473	1,722	6,264	1,257	1,369	1,094
Storage Billings											
Disks & Storage Arrays	345	387	1,412	302	407	350	468	1,528	311	386	233
Change % Y/Y	-2	-7	1	3	6	1	21	8	3	-5	-34
Open Storage	9	24	50	9	26	23	33	91	25	31	38
Change % Y/Y					55	155	37	83	162	21	63
Tape	242	266	990	196	282	195	279	953	188	245	202
Change % Y/Y	14	-8	-8	-4	2	-19	5	-4	-4	-13	3
Other Storage	-4	22	37	14	17	16	12	58	11	8	6
Change % Y/Y	-128	153	-12	69	41	458	-46	55	-18	-54	-62
Storage Reserves and Adjustments**	-32	-60	-172	-17	-77	-54	-128	-276	-28	-100	-53
Total Storage Revenue***	560	639	2,316	505	655	530	664	2,354	507	570	425
Total Products Revenue	2,060	2,492	8,771	1,980	2,249	2,003	2,386	8,618	1,764	1,939	1,519
Services Revenue											
Hardware, Software Support (Including Solaris & Other Software)	950	1,024	3,962	979	1,041	961	1,042	4,023	963	946	853
Change % Y/Y	5	4	8	-1	4	1	2	2	-2	-9	-11
Professional and Education Services	273	319	1,140	260	325	302	352	1,239	263	335	242
Change % Y/Y	15	0	12	7	7	11	10	9	1	3	-20
Total Services Revenue	1,223	1,343	5,102	1,239	1,366	1,263	1,394	5,262	1,226	1,281	1,095
Total Sun Revenue	3,283	3,835	13,873	3,219	3,615	3,266	3,780	13,880	2,990	3,220	2,614

Notes:

Blade Servers Billings (includes CMT, X64, and Net)

	28	43	96	55	44	69	73	241	61	71	55
Change % Y/Y	0	0	0	638	122	162	71	151	11	62	-19

- Solaris SPARC Enterprise Servers includes the Datacenter & Midrange serversystems
- Solaris SPARC CMT Servers includes all CMT Servers, including CMT Blades and CMT Net products
- X64 Servers includes X64 Rack, X64 Blades and X64 Net products and excludes products categorized under Open Storage
- Other Systems Products includes Workstations, Volume SPARC, Net SPARC, Integrated Products and Networking products
- Open Storage includes the Sun Storage 7110, 7210, and 7410, Sun Fire X4500, Sun Fire X4540, J4200, J4400 and J4500 products
- Other Storage includes the NAS products minus Sun Storage 7110, 7210, and 7410

** Billings represent the amount invoiced to customers for products and are subject to cancellation. Billing is not a GAAP financial measurement, and therefore is not an audited number. Billings differ from revenue in that billings are not adjusted for any reserves and are not subject to any of the conditions under GAAP that must be met before revenue is recognized. Accordingly, amounts billed may not lead to revenue and billings should not be viewed as equivalent to, or a substitute for, GAAP revenue.

** Reserves and adjustments represent deferrals, reserves and other reductions of invoice amounts required under GAAP before revenue is recognized.

*** Excludes service revenue attributable to Systems, Software, and Storage including maintenance and support shown in the Hardware, Software Support line under Services Revenue

If there was only one reason...



... we care about both

Let's talk about these guys first



GlassFish Enterprise Server

- Second-generation Java EE 5 product
- Central admin
- Full clustering
- HADB support
- Documentation
- Advanced monitoring
- .NET interop
- Fastest Open Source App Server
- Enterprise Manager (see next presentation)



Sustaining Releases



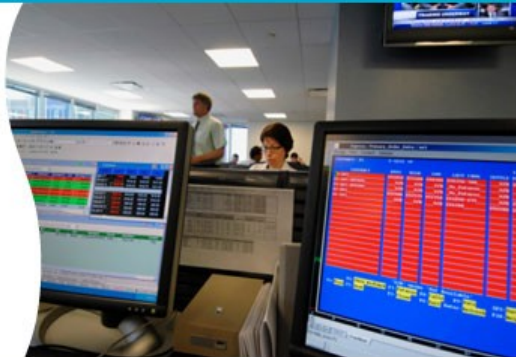
<http://blogs.sun.com/GlassFishForBusiness/>

Introducing Sun GlassFish Portfolio

The Open Platform for Building Dynamic Web Applications

Enterprise Server

Application Server with Enterprise-scale management and monitoring, including support for SNMP



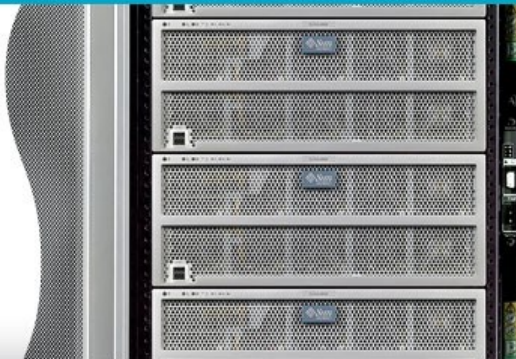
Web Space Server

Portal for web site development and collaborative work spaces



Web Stack

A complete LAMP stack



GlassFish ESB

A full SOA web platform





Portfolio Subscription Offerings

GlassFish Portfolio	Basic	Silver	Gold	Platinum
Price (US)	USD \$999 ¹ /Server/Year	USD \$2,999 ¹ /Server/Year	USD \$5,999 ¹ /Server/Year	USD \$8,999 ^{1,2} /Server/Year
	Buy It Now	Buy It Now	Buy It Now	» Talk to Sun
☐ Unlimited Subscription				
Unlimited Subscription	N/A	N/A	» Yes Talk to Sun	» Yes Talk to Sun
☐ Software				
GlassFish Enterprise Server	Yes	Yes	Yes	Yes
GlassFish Web Stack ⁶	Yes	Yes	Yes	Yes
Java System Web Server/Proxy Server		Yes	Yes	Yes
Message Queue		Yes	Yes	Yes
GlassFish Web Space Server	Note 4	Note 4	Note 4 Included in Unlimited	Note 4 Included in Unlimited
GlassFish ESB	Note 5	Note 5	Note 5 Included in Unlimited	Note 5 Included in Unlimited

<http://sun.com/glassfish>

Now, this guy....



atmosphere.dev.java.net

- Comet (AjaxPush) still very popular
 - > Supported in GlassFish since v2
- Atmosphere a recent project for portable comet
 - > Tomcat 4, 5, 6, Jetty 5,6,7, GlassFish 1, 2, 3, Weblogic 9.x, 10.x, Jersey, Grizzly 1.9.x, JBossWeb 2.x,
 - > From the makers of GlassFish Comet (Jean-François Arcand and team)
- No need to wait for servlet 3.0 adoption, HTML 5 WebSockets, etc....
- Also supports the Bayeux protocol

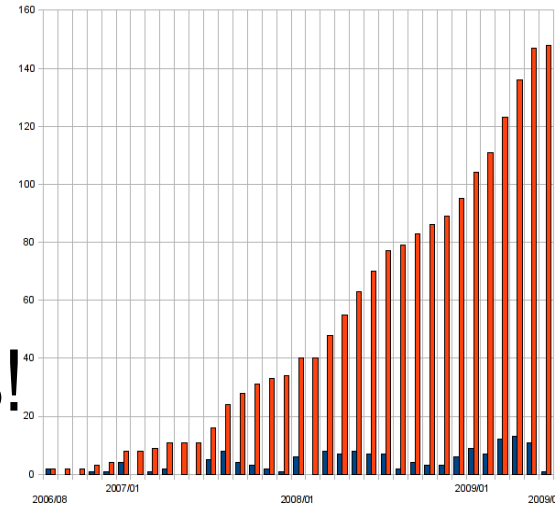
Dynamic languages

- Scripting and dynamic environments on v3
 - > Ruby on Rails
 - Many adoption/production stories (LinkedIn and others)
 - One process, one command as a better alternative
 - > Groovy/Grails
 - Check out the groovyblogs.org story at <http://blogs.sun.com/stories>
 - > And now Jython/Django !
 - Using recently released jython 2.5
- All available from the GlassFish Update Center



Hudson

- Continuous Integration System
- You can't stop the innovation madness!
 - > Now at version 1.311 (1 per week)
 - > EC2 plugin, selenium grid support, Hudson swarm slave plugin, Groovy shell, CLI, Hadoop, ZFS integration, ...
 - > Reported as #1 CI tool by Eclipse users
 - > 140+ plugins, 120+ committers
- Support for Hudson
 - > NetBeans 6.x
 - > kenai.com (Hudson in the cloud!)
- Support offering for Hudson via a GlassFish Portfolio Subscription



Jersey

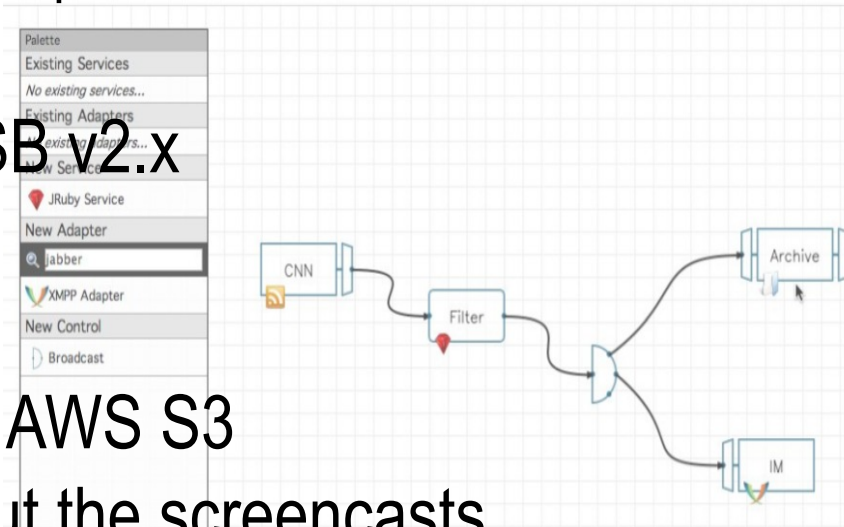
- Reference Implementation for JAX-RS
 - > RESTful Web Services, JSR 311
- Moving fast towards a JAX-RS 1.1
 - > Production-quality implementation
 - > 1.1.0 EA now available
 - > Integration in GlassFish v3
 - > 1.0.3 integrated into GlassFish v2
- Beyond JAX-RS
 - > Client API, WADL, JSON, Spring, Juice, MIME multipart, EJB integration, ATOM and Apache Abdera, ...
- Integration with Atmosphere
- Used by JavaStore, Kenai.com, and elsewhere

SOA – GlassFish ESB

- GlassFish ESB 2.1 released last week (June 2009)
 - > Clustering for all components
 - > IEP (Intelligent Event Processing) Service Engine
 - Complex Event Processing (CEP) and Event Stream Processing (ESP) using the Continuous Query Language (CQL)
 - > Scheduler Binding Component
 - > Enhancements to BPEL SE, File BC, FTP BC, HTTP BC, JMS BC and LDAP BC
 - > NetBeans 6.5.1 and GlassFish v2.1
 - > Support for AIX 5.3
 - > Supported product based on OpenESB

SOA – OpenESB.next

- Fuji Milestone 6 released last week
 - > Right-sized ESB runtime using OSGi (Felix)
 - > IFL – Integration Flow Language
 - Integration application using a domain-specific grammar
 - Content-based router, aggregate, split, etc.
 - > Core JBI runtime < 300KB
 - > Same components as OpenESB v2.x
 - > Now bundle with GlassFish v3
 - > NetBeans and Eclipse tooling
 - > Early prototyping with Amazon AWS S3
 - > <http://fuji.dev.java.net>, check out the screencasts



WebSpace Portal Server



- Previously known as websynergy
 - > For GlassFish v2 or v3
 - > Partnership with Liferay
- Flexible authentication:
 - > LDAP, CAS, NTLM, OpenID, OpenSSO, SiteMinder
- NetBeans Portlet builder
- Wiki, blogs, forums, activity, communities, workflow
- Xcellerators
 - > OpenOffice plugin, OpenSSO, Sharepoint, Documentum, Alfresco, Secure Global Desktop
- Sun Web Space Server 10.0.3 available
 - > Available as IPS, VirtualBox and VMWare images

SailFin.dev.java.net

- Telco Application Server building on top of GlassFish
 - > Co-developed with Ericsson
 - > Support for SIPServlet 1.1 (JSR 289) and more
- Simplifying Converged Applications with Converged Application FramEwork (CAFE)
 - > Announced at JavaOne: <http://sailfin-cafe.dev.java.net>
 - > Server-side Java Communication API for Calls, Conference, IM, Presence, and Media
 - > No SIP knowledge required (but possible)
 - > Annotated POJO's to handle the communication
 - > Leverages JSR 309 (standard for media control)
- SailFin v3 building on GlassFish v3, SAML for SIP, ...



GlassFish v3



- Java EE 6 support
 - > New and updated specifications
 - > Extensibility, Pruning
 - > Web Profile targeting web applications
- Developer friendly
 - > IDE support: NetBeans, Eclipse and IntelliJ
 - > Rapid Iterative Development
 - > Modularity based on OSGi – pay for what you use
 - > 1st class support for dynamic languages and frameworks
- Scales from embedded to carrier-grade
- GlassFish v3 Preview available today, final this fall
 - > Download from <http://glassfish.org>

GlassFish Update Center

New in v2, ambitious in v3

Update Tool

Application Images

- GlassFish v3 Preview
 - Available Add-ons
 - Available Updates
 - Installed Components**
 - GlassFish v3 Prelude
 - GlassFish v3 Web Preview

41 components are installed

Component	Category	Version	Installed Size	Source
<input type="checkbox"/> GlassFish Management Extension	Application Servers	3.0-50	1.6 MB	dev.glassfish.org
<input type="checkbox"/> GlassFish Appclient	Application Servers	3.0-50	305.7 kB	dev.glassfish.org
<input type="checkbox"/> GlassFish CMP	Application Servers	3.0-50	2.2 MB	dev.glassfish.org
<input type="checkbox"/> CORBA Code Generation for Glass...	Application Servers	3.0.0-20	897.3 kB	dev.glassfish.org
<input type="checkbox"/> GlassFish Common Components	Application Servers	3.0-50	10.9 MB	dev.glassfish.org
<input type="checkbox"/> GlassFish Commons Full Profile	Application Servers	3.0-50	220.7 kB	dev.glassfish.org
<input type="checkbox"/> CORBA ORB for GlassFish	Application Servers	3.0.0-20	2.0 MB	dev.glassfish.org
<input type="checkbox"/> OMG CORBA APIs for GlassFish	Application Servers	3.0.0-20	325.9 kB	dev.glassfish.org
<input type="checkbox"/>			172.8 kB	dev.glassfish.org
<input type="checkbox"/>			751.3 kB	dev.glassfish.org
<input type="checkbox"/>			943.6 kB	dev.glassfish.org
<input type="checkbox"/>			9.9 MB	dev.glassfish.org
<input type="checkbox"/>			565.1 kB	dev.glassfish.org

Home Version

User: anonymous | Domain: c

GlassFish™ v3 Admin

There are 1 update(s) available

Tree

Common Tasks

- Registration
- GlassFish News
- Application Server
- Applications
- Resources
 - JDBC
- Configuration
 - Web Container
 - Transaction Service
 - HTTP Service
 - Virtual Servers
 - Thread Pools
 - Network Config
 - Monitoring
 - Security
 - System Properties
 - Update Tool

```
% pkg list
NAME (PUBLISHER)          VERSION      STATE      UFIX
felix                     1.8.0-0    installed  ----
glassfish-amx             3.0-50     installed  ----
glassfish-appclient      3.0-50     installed  ----
glassfish-cmp             3.0-50     installed  ----
glassfish-codegen        3.0.0-20   installed  ----
glassfish-common         3.0-50     installed  ----
glassfish-common-full    3.0-50     installed  ----
glassfish-corba          3.0.0-20   installed  ----
glassfish-corba-omgapi   3.0.0-20   installed  ----
glassfish-ej              3.0-50     installed  ----
glassfish-ej              3.0-50     installed  ----
glassfish-gr              3.0-50     installed  ----
glassfish-gu              3.0-50     installed  ----
glassfish-hk              3.0-50     installed  ----
glassfish-jc              3.0-50     installed  ----
glassfish-jc              3.0-50     installed  ----
glassfish-id              3.0-50     installed  ----
```

```
% pkg install hibernate
DOWNLOAD          PKGS      FILES      XFER (MB)
Completed         1/1       13/13      4.87/4.87

PHASE              ACTIONS
Install Phase     21/21
```

```
% pkg Usage:
pkg [options] command [cmd_options] [operands]
```

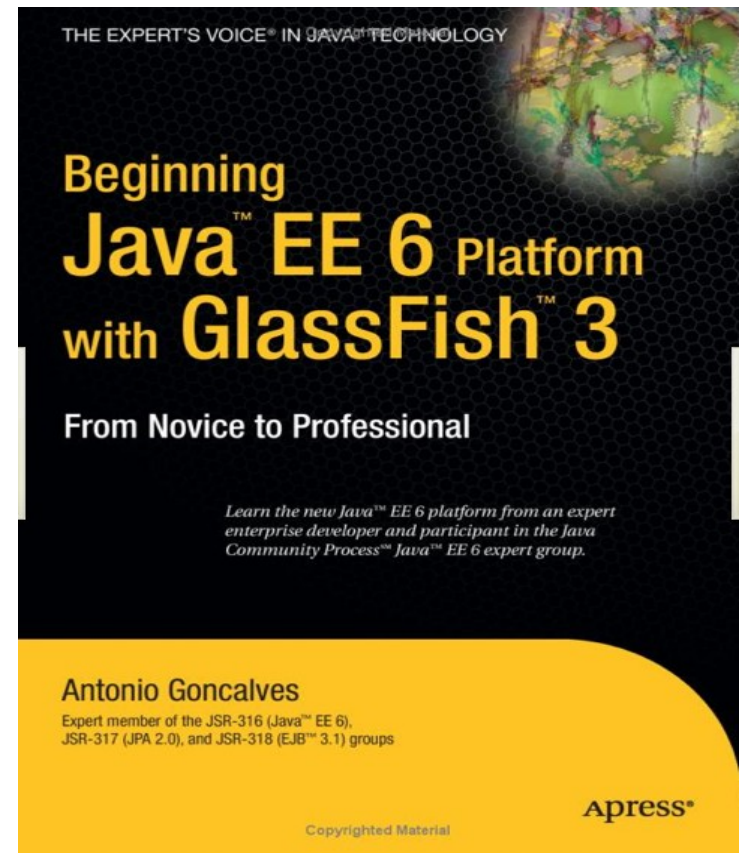
GlassFish Community Packages

- Your opportunity to contribute an add-on to GlassFish
 - > Granularity of GlassFish packages pretty loosely defined
 - Coarser-grained than OSGi bundles
 - Exemples: JDBC drivers, frameworks, OSGi bundles, HK2 modules, monitoring tools, and even applications
 - > GlassFish ships with a “contrib” repository pre-configured
 - Today: hibernate, Grails, ruby on rails, jython/Django, ...
 - <http://pkg.glassfish.org/v3/contrib>
 - > IPS/pkg(5) is the underlying technology, <http://glassfish-repo.dev.java.net> is where it all happens
- Also useful for internal enterprise deployments

Beginning Java EE 6 w/ GlassFish 3

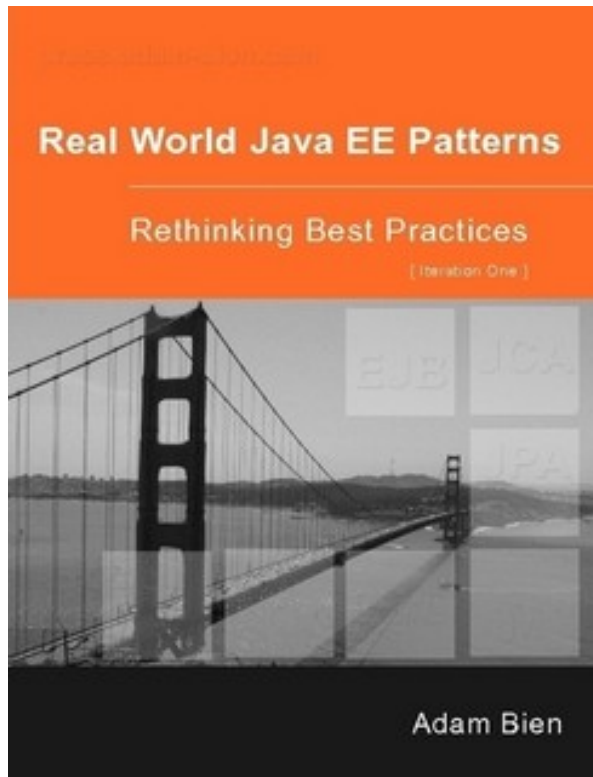
From Novice to Professional

- Antonio Goncalves
 - > ParisJUG leader
 - > Expert Group Member
 - > Consultant
- First book on Java EE 6
- Available in electronic format



Real World Java EE Patterns

<http://press.adam-bien.com>



- Adam Bien, GlassFish evangelist ;-)
- Available from lulu.com
- Source code hosted on <http://kenai.com>

More books!



Agenda

- 09:15 GlassFish, a world of opportunities (Alexis)
- 10:00 GlassFish v2.1 and Enterprise Manager (Alexis)
- 10:45 *Coffee Break*
- 11:00 Java EE 6, Renewing the Platform (Roberto)
- 11:45 Metro Web Services (Marek)
- 12:30 *Lunch*
- 13:30 Pragmatic GlassFish – Getting started (Alexis)
- 14:15 GlassFish v3 (Jérôme)
- 15:00 *Coffee Break*
- 15:15 Tooling – We love all developers (Ludo and Roman)
- 16:00 JSF 2.0 (Ed Burns)

Logistics

- Please fill out the Survey
- Winners announced after afternoon break



Thank You !
Q/A

Sun Microsystems

