RED HAT
ON THE MAINFRAME
THE REASONS ARE COMPELLING

redhat. | IBM.

Red Hat Linux on System z
The Open Source Company

Mal Casey, Regional Manager
mcasey@redhat.com

Agenda & Introduction

Red Hat System z Business Update

Future Tech / Upstream Development Cycle

Red Hat
The Open Source Model

Red Hat: Global View

$653 million dollars of revenue in FY09

25% revenue growth year-over-year

2900+ people in 29 countries, 67 offices (+25%)

$800+ million in cash & investments

$0 debt

Red Hat / IBM Relationship

Cross platform relationship founded in the late 90s (when Red Hat incorporated)

Started releasing RHEL for s390 in 2001

Formal Linux on System z agreement & announcement in 2007
(http://www-03.ibm.com/press/us/en/pressrelease/21513.wss)

Red Hat has dedicated staff to System z
(we haven't done this for <u>any</u> other H/W platform)

Red Hat: System z View

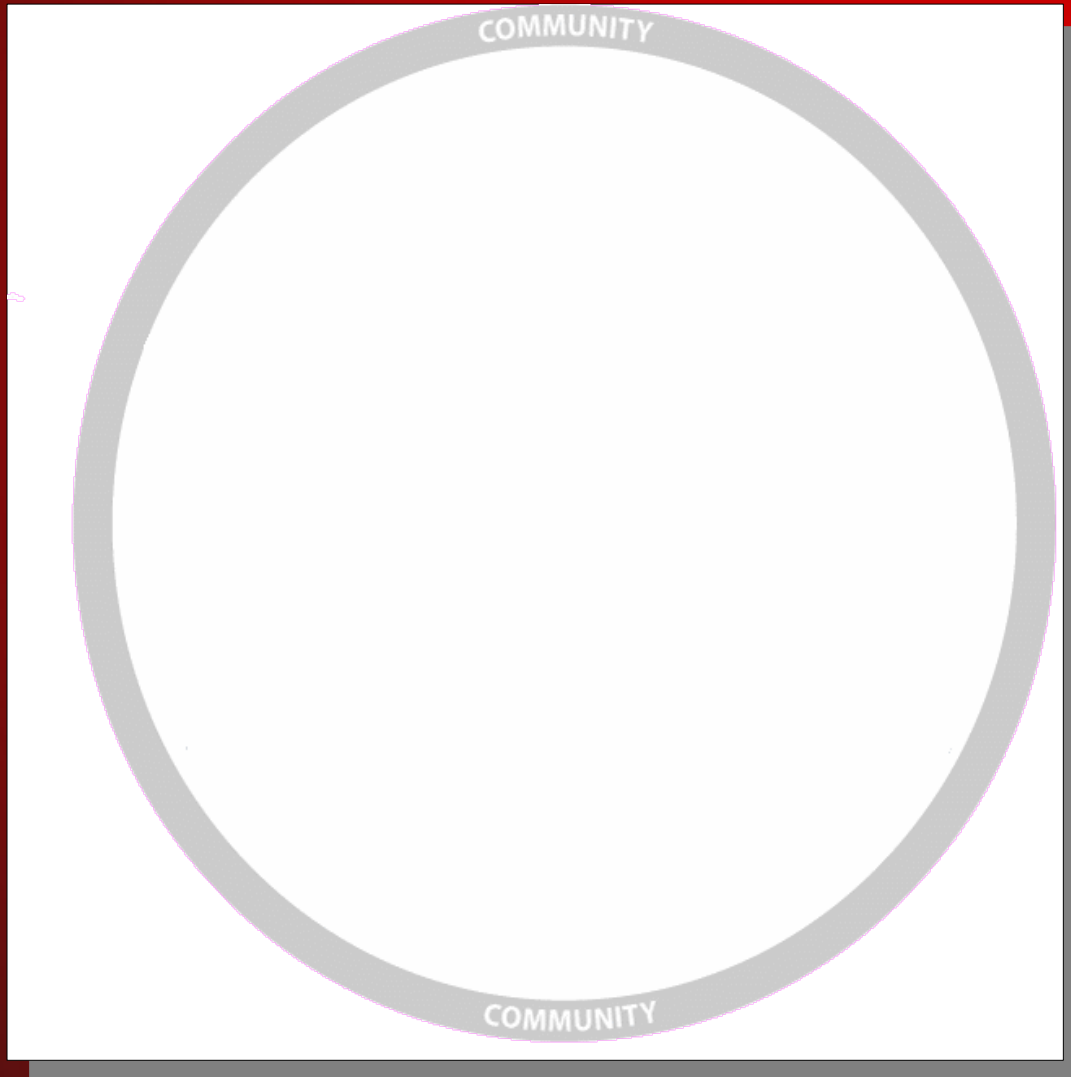Red Hat Fiscal Years (global view)

- 2005:   +227%
- 2006:   +331%
- 2007:   +256%
- 2008:   +269%
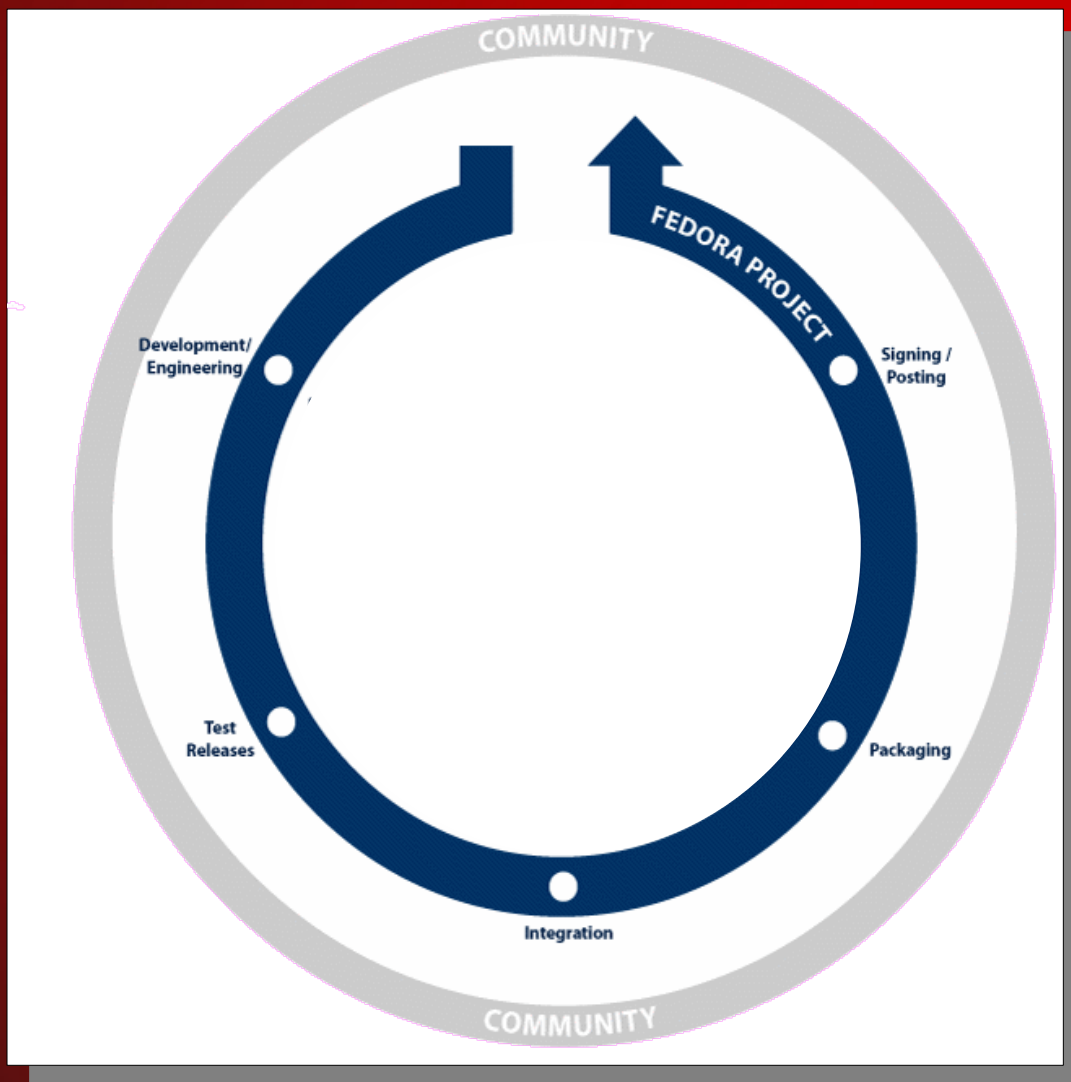- 2009:   Announcing Shortly

Red Hat Development Model

COMMUNITY

- Development with "upstream communities"

- Kernel, glibc, Apache, etc

- Collaboration with open source community; individuals, business partners, customers
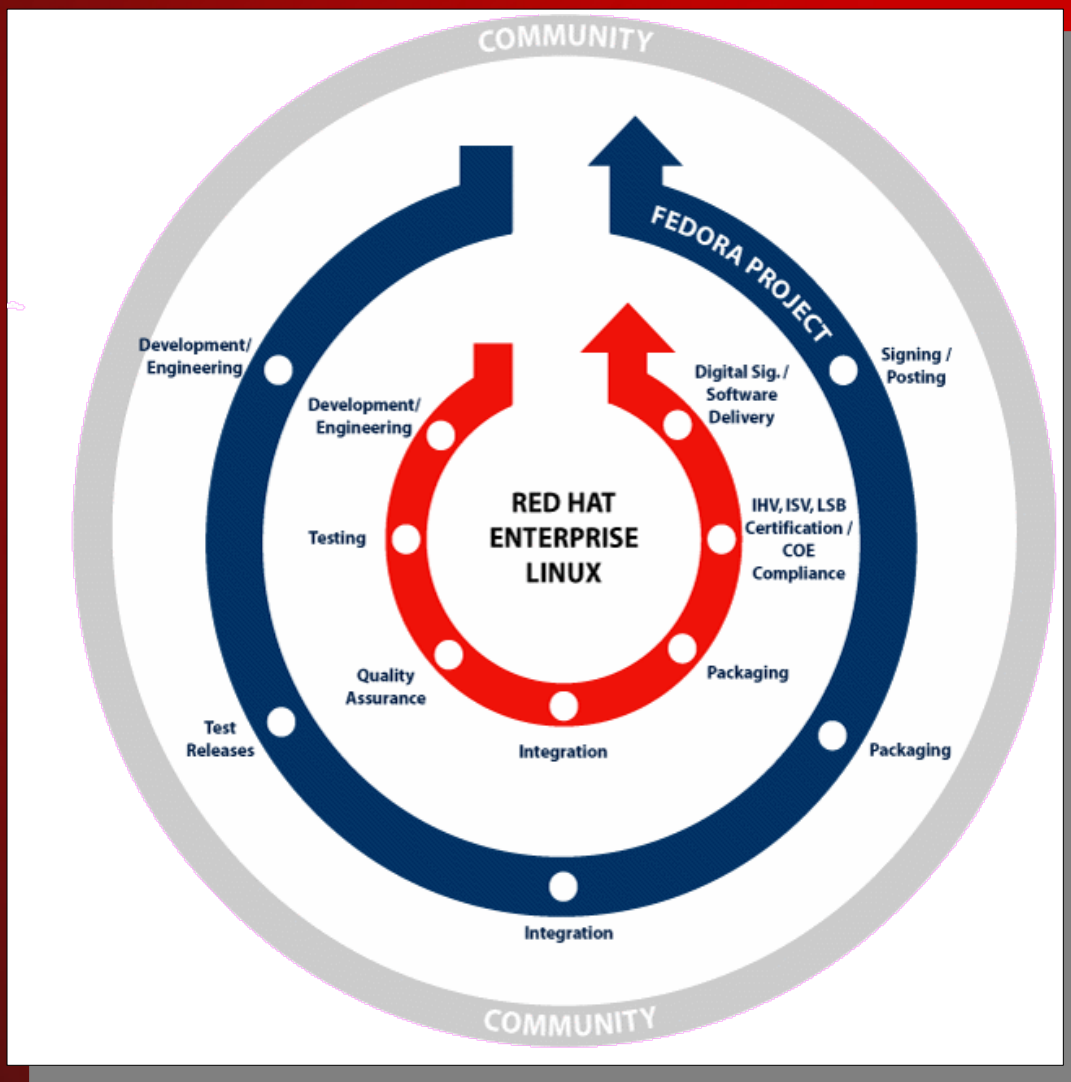
Red Hat Development Model

FEDORA

- **Bleeding edge**

- **Sets technology direction for RHEL**

- **Community supported**

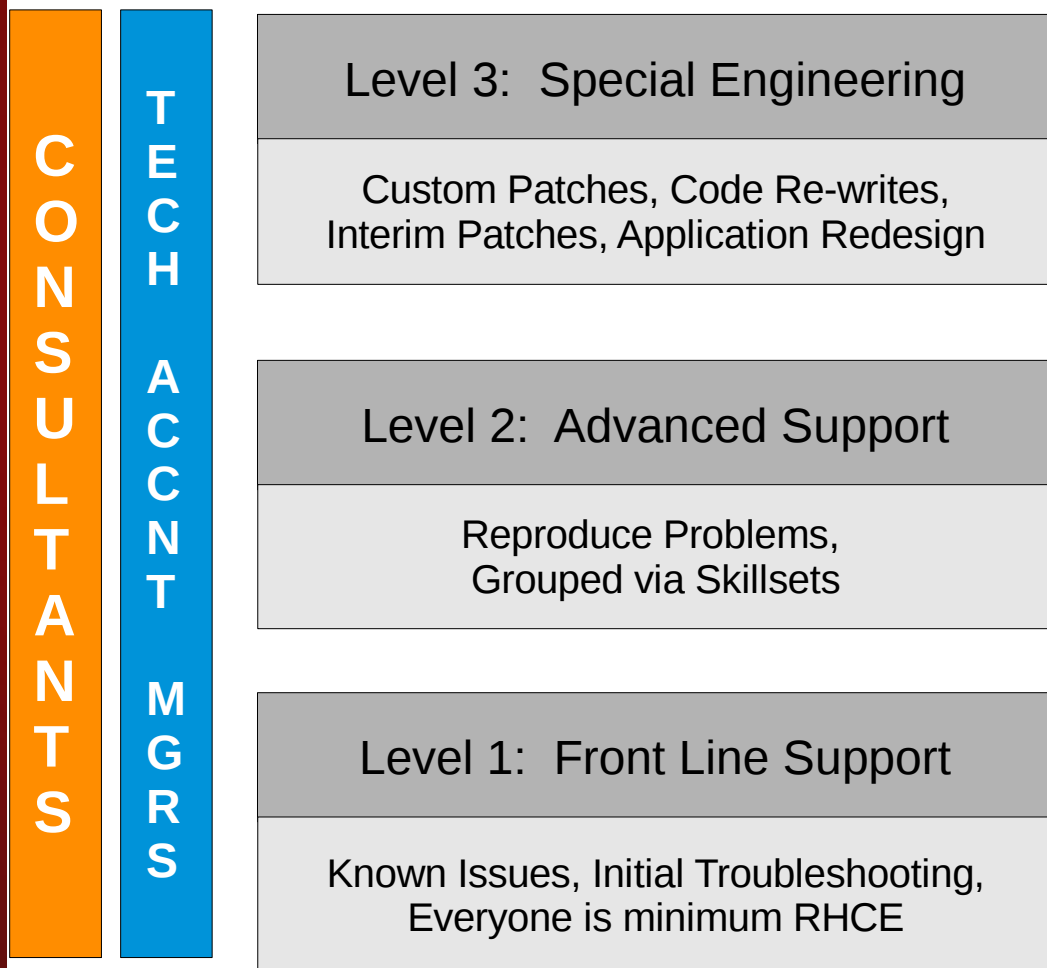- **Released ~6mo cycles**

- **Fedora 10,11,12 = RHEL6**

Red Hat Development Model

RHEL

- **Stable, matured**

- **Q&A, testing**

- **H/W & S/W Certifications**

- **7yr maintenance**

- **Core ABI compatibility**

- **Major releases 2-3yr cycle**

Linux on System z Support

CONSULTANTS

TECH ACCNT MGRS

Level 3: Special Engineering

Custom Patches, Code Re-writes,
Interim Patches, Application Redesign

Level 2: Advanced Support

Reproduce Problems,
Grouped via Skillsets

Level 1: Front Line Support

Known Issues, Initial Troubleshooting,
Everyone is minimum RHCE

Support via Red Hat

RHEL For System z Subscriptions

Red Hat Enterprise Linux Subscription

SUPPORT	PREMIUM	24x7 Phone/Web 1 Hour SLAs
	STANDARD	Phone/Web 1-4 Business Hour SLA
	BASIC	Web Support. 2 Day SLA

Security, Bug Fixes
Regular H/W & S/W Updates

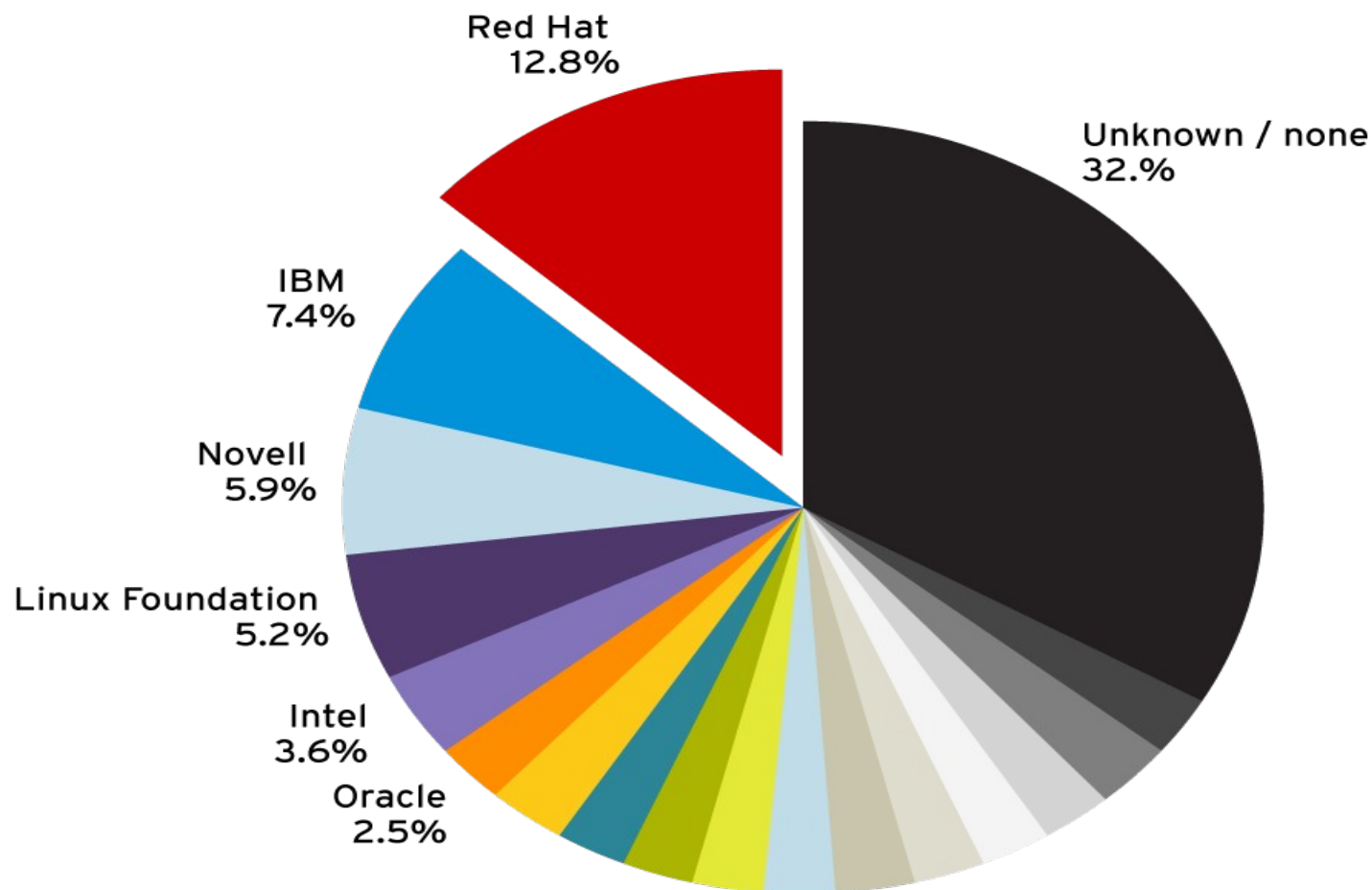Hardware & Application Certifications

Stable Application Interfaces

Upgrades to New Versions

Product Source & Binaries

- **No version upgrade cost**

- **No "client access" fee**

- **Unlimited support incidents**

- **Priced per IFL**
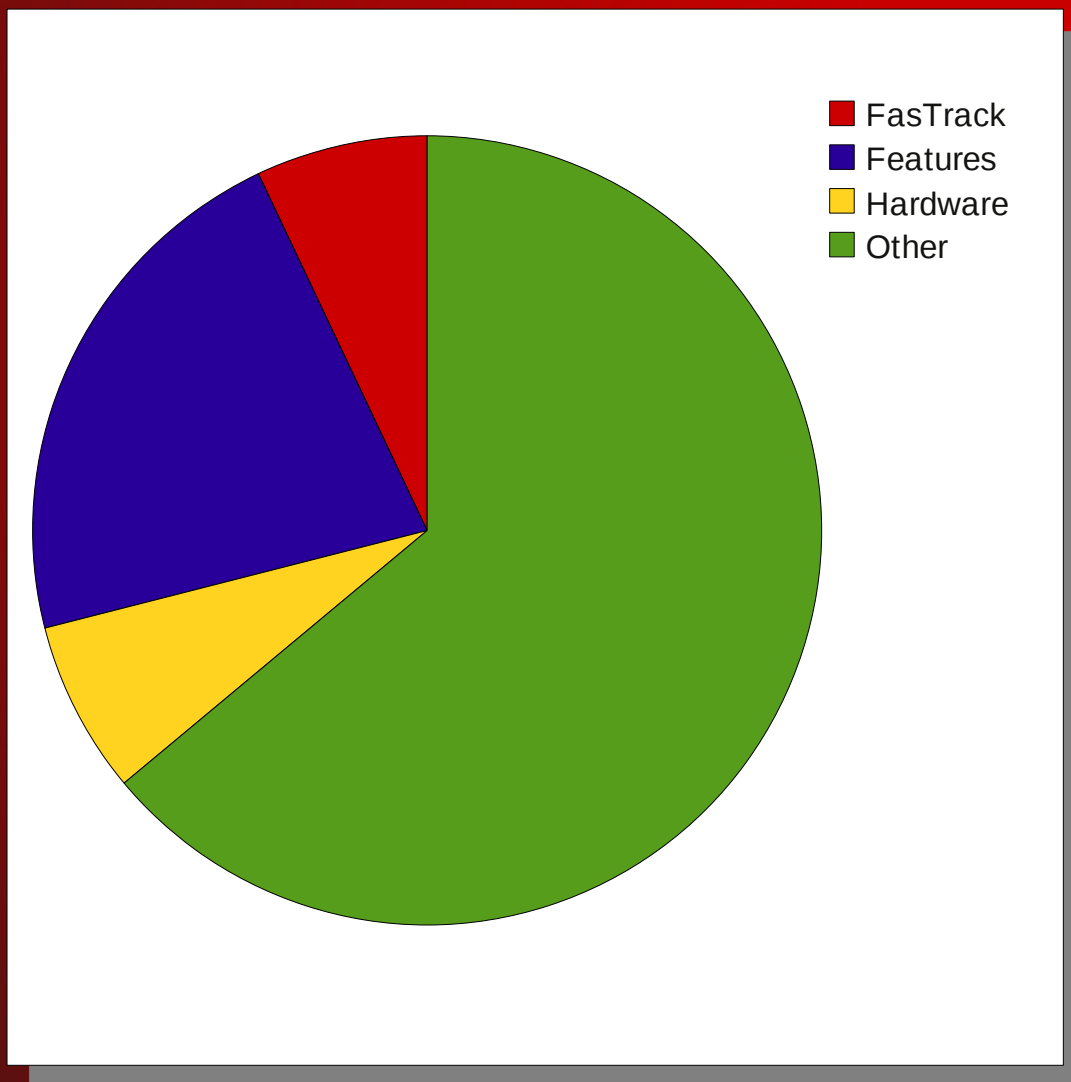
- **Possible to convert subscriptions to/from other platforms**

Joint Red Hat / IBM Development

Kernel Lines Changed - 2.6.23

- Red Hat 12.8%
- Unknown / none 32.%
- IBM 7.4%
- Novell 5.9%
- Linux Foundation 5.2%
- Intel 3.6%
- Oracle 2.5%

Source: http://lwn.net/Articles/247582/

RHEL 5.3 Overview

Legend:
- FasTrack (red)
- Features (blue)
- Hardware (yellow)
- Other (green)

~150 additions, ~3,400 BugZillas

7% FasTrack
Early release of low impact fixes

7% Hardware Enablement
New chipsets & processor feature support

21% New Features
Feature requests from customers & partners

65% "Other"
Feature enhancements, Bug fixes, Documentation

RHEL 5.3: System z Specific

BugZilla ID	Summary
46327	stage1: sshd error loading shared lib: libfipscheck.so.1
184770	LTC18425-62140: (big) xDR system Initialization for LPAR Clients
472788	rhel 5.3 snapshot3 scsi mpath install failed on z9bc lpar
439479	LTC:5.3:201474:Include gcc 4.3 as Add-On for latest z10 instruction set support
439440	LTC:5.3:201160:Long Random Numbers Generation
439441	LTC:5.3:201158:Selective Logging of ECKD DASD devices
439482	LTC:5.3:201542:FCP - Enhanced Trace Facility
447379	LTC:5.3:200994:Linux CPU Node Affinity
463917	unable to find DASD drives to install
439484	LTC:5.3:201490:Libica Library: Integration of Icainfo
43946	LTC:5.3:201360:OSA 2 Ports per CHPID Support - Installer Enhancements
466474	[RHEL5.3] *** glibc detected *** /usr/bin/python: double free or corruption (!prev): 0x000 0000080d55e90 ***
466305	cosmetic error message: failure in nl_set_device_mtu
466291	anaconda silently omits uninitialized disk