



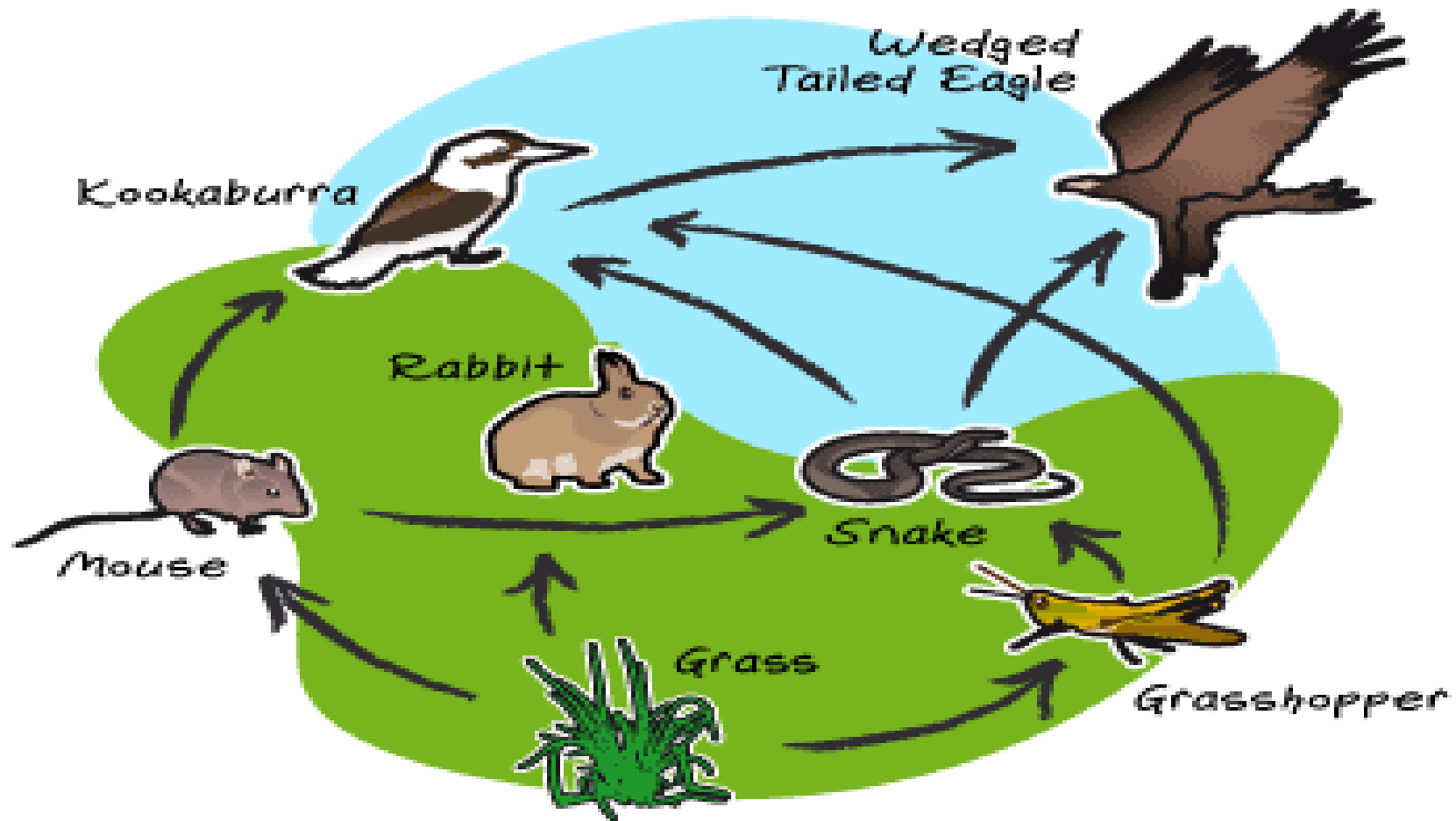
Discover the Power of MySQL

Peter Zaitsev
Percona Live Washington DC
11 January 2012

Where does MySQL's power come from?

?

It comes from MySQL Ecosystem



Ecosystem & Community

- Community is an abused word
 - Implies non-commercial for many
- Ecosystem is about business
 - It's where commercial & non-commercial interests meet

Are You Part of the Ecosystem ?

- Developers or DBAs using MySQL
- Writing MySQL Code, Books or Articles
- Your Company Depends on MySQL
- Your Organization Provides Solutions or Services for MySQL
- You Contribute Bug Reports and Ask Smart Questions

Open Source

- Percona Loves Open Source!
 - All of our distributable software is Open Source
- We Believe 99.9% of Applications Could be Built Using Only Open Source Technologies
- Proprietary Commercial Software Can Help You...
 - Save time
 - Save money
 - Makes your system less complicated, uses less hardware, is easier to maintain, etc.

Technologies

- Developing Open Source Technologies is hard
 - Your resources are more limited
- Best if technology is needed by millions and there exists an alternative way to monetize it
 - Think Mozilla Firefox, VLC etc.
- Many special purpose & complex technologies can't be developed as Open Source
 - At least not quickly enough

It's A Choice

- Would you prefer to have
 - Proprietary Options or
 - No options at all

The Oracle

ORACLE®

New Steward of MySQL

- A new set of rules after MySQL Ab & Sun
 - Something we're all slowly getting used to
- Great engineering contributions by Oracle to MySQL
- Have made MySQL much more solid
 - 5.5 is a great release
 - 5.6 betas look amazing
- Many ideas first tried in Percona Server now added to 5.6
- Good signs of other community inputs being listened to

Proprietary Features ?

- It is Oracle's business choice
- Continues MySQL/Sun strategy of closed source Enterprise Monitor and Backup tool
- Written as plugins, which is good
- Alternatives might appear from other sources
- Good for those who develops proprietary solutions for MySQL
 - By making proprietary more accepted in MySQL ecosystem

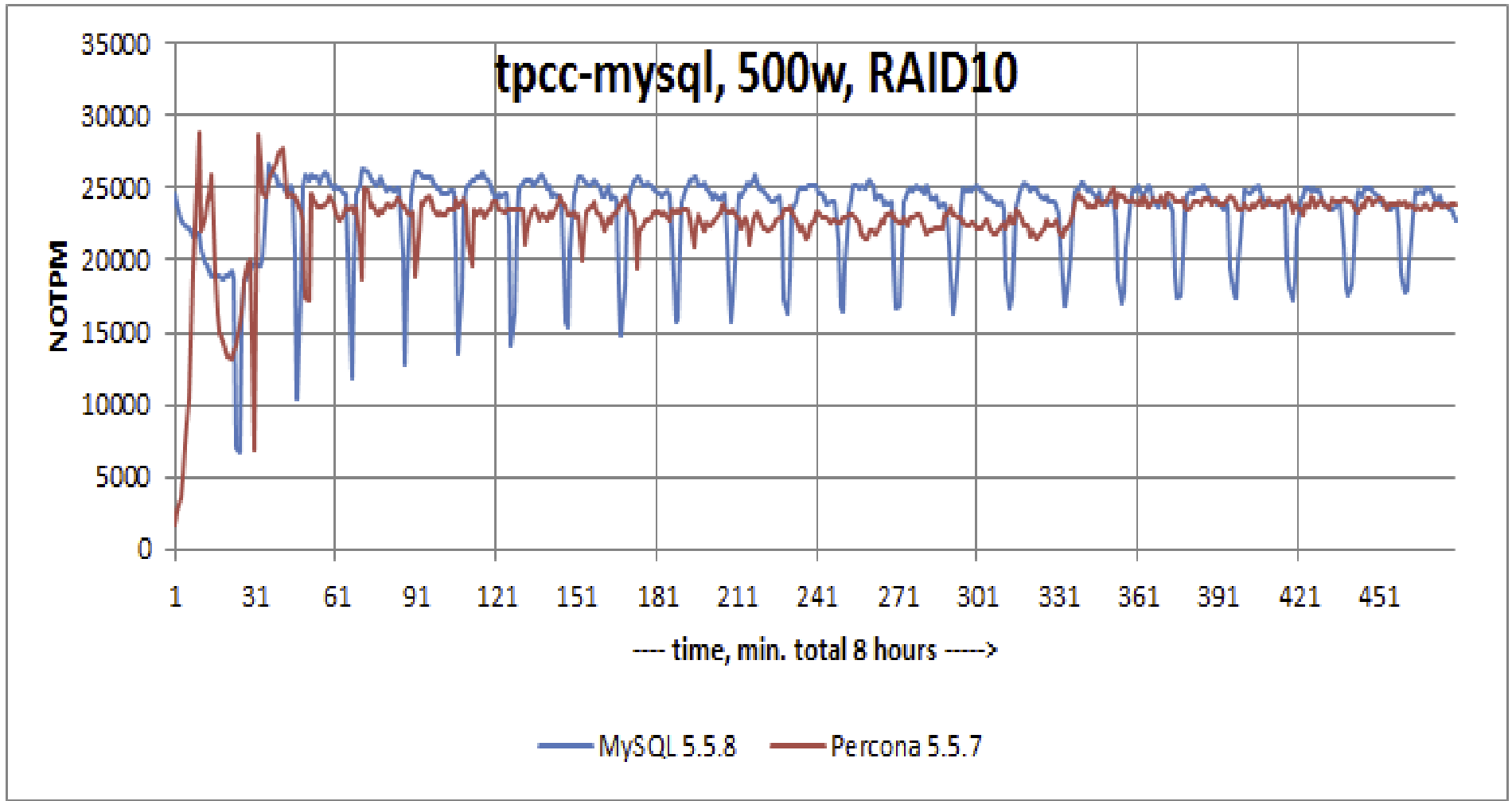
The Alternatives



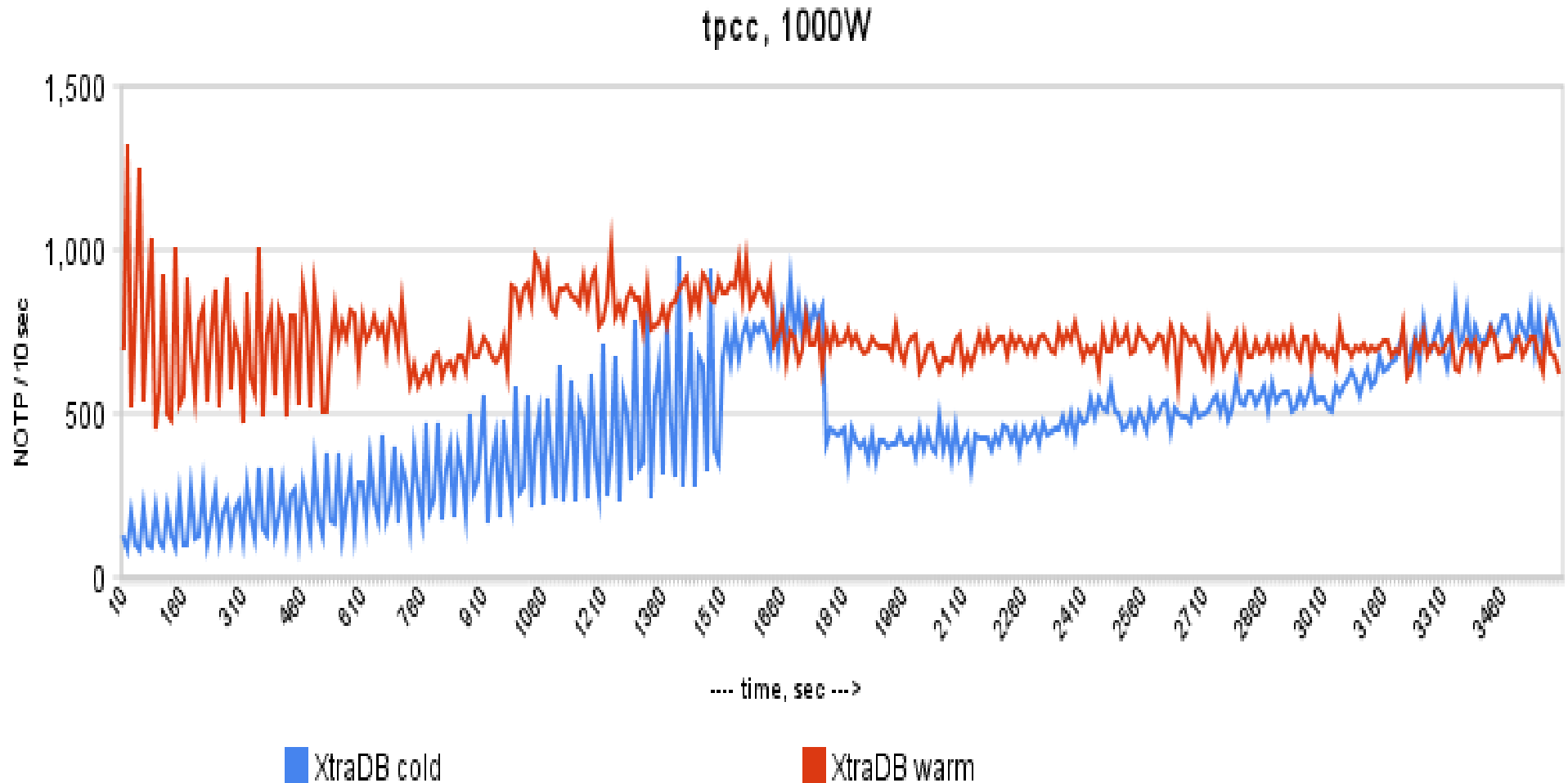
Percona Server

- Tracks Oracle MySQL versions very closely
 - Very easy & safe drop in replacement
- Focused on needs of high end installations
 - Performance
 - Stability
 - Transparency & operational simplicity
- Scalability with
 - Multiple CPUs, Large Memory, Flash Storage

Provide Stable Performance

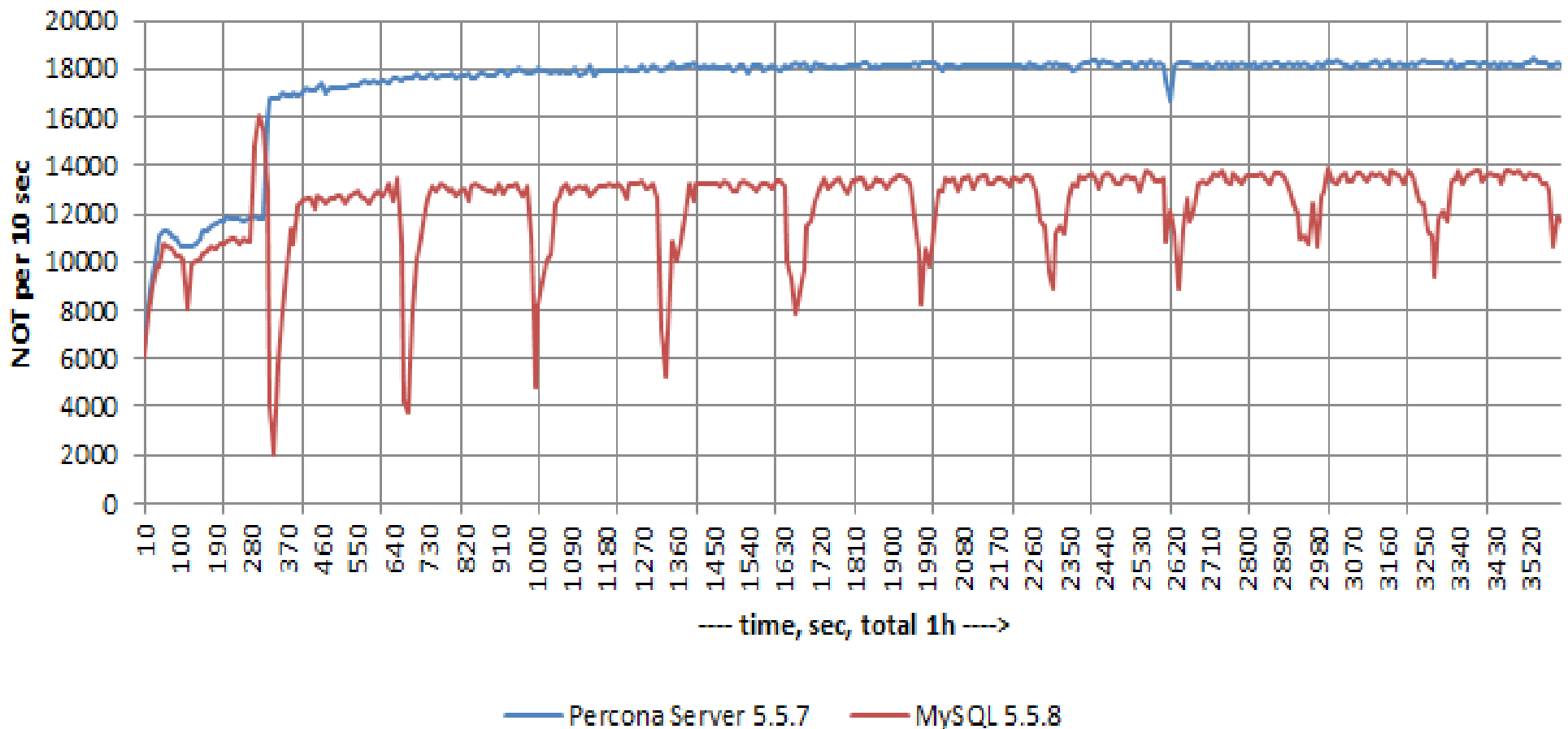


Reach Peak Performance Quicker



Optimized for SSD Storage

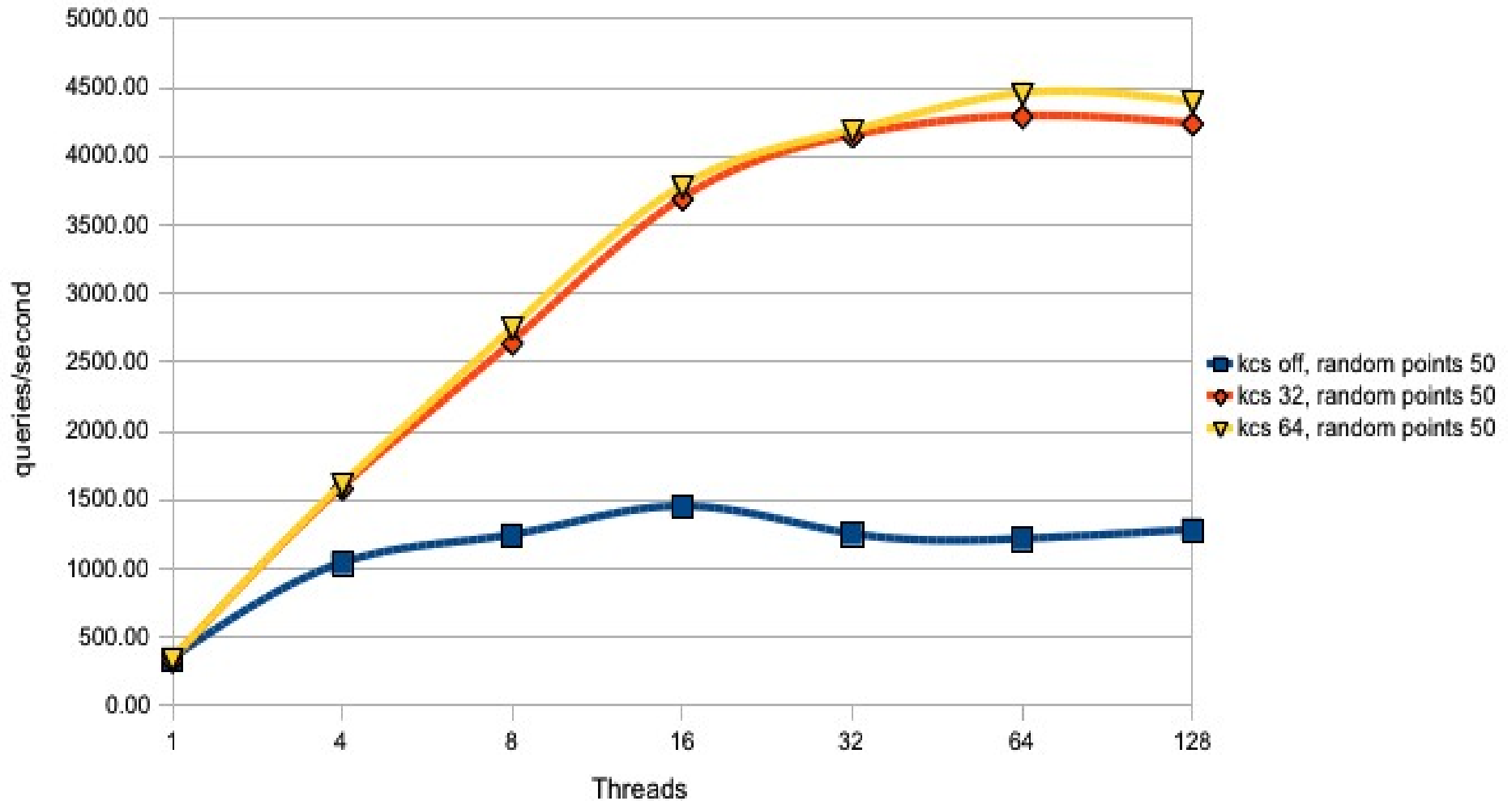
tpcc-mysql, 1000W, Virident, 144GB BP



MariaDB

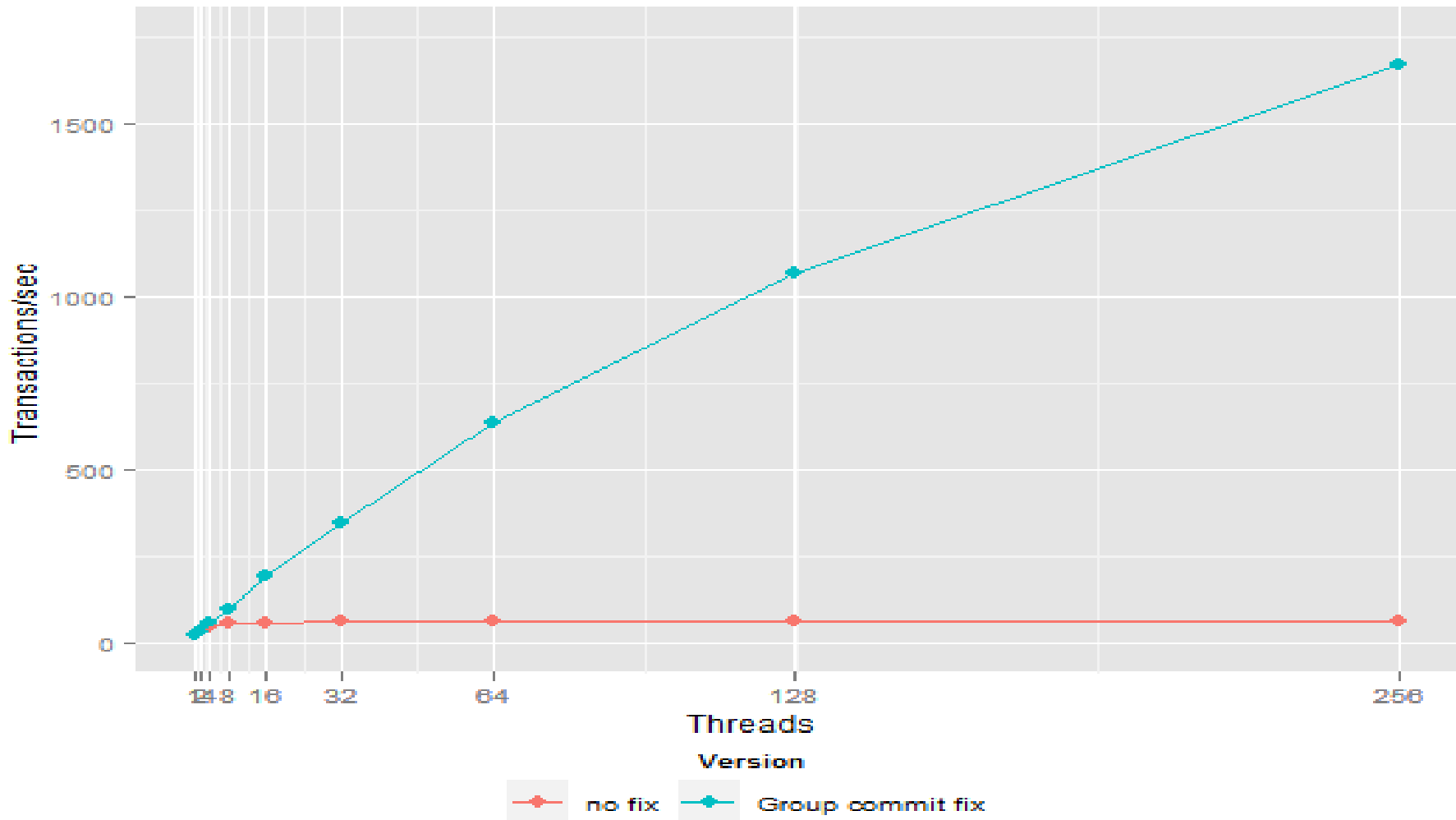
- Lead by MySQL founder Monty Widenius
- Rather close to MySQL but
- On its own version schedule
- Many community features incorporated
- Greatly improved optimizer
- Performance enhancements & bug fixes
- Includes Percona XtraDB storage engine

Segmented MyISAM KeyCache



Improved Group Commit

(write through cache, sync_binlog=1)



Drizzle

- A true community project
 - More than 100 developers from many companies
- Lead by former MySQL Director of Architecture Brian Aker
- Micro kernel modular architecture
- Derived from MySQL but not a drop in replacement
- Best use is for new development
- Comes with BSD client library (which also can be used to connect to MySQL)

I Want More!

- Number of Commercial alternatives & supplements
- Clustrix
- SchoonerSQL
 - Based on MySQL, optimized with sync replication
- TokuDB (storage engine)
- Infobright (storage engine)
- InfiniDB (storage engine)

Summing It Up

- MySQL is not dead or dying
- MySQL has a whole new lease on life
- MySQL ecosystem is thriving
- Increased Enterprise MySQL Developments
- MySQL remains the best database technology for the vast majority of applications
- ***Thank you for supporting the MySQL ecosystem by joining us today !***


New From Percona

- Percona Toolkit 2.0
 - <http://www.percona.com/software/percona-toolkit/>
- Percona XtraDB Cluster
 - Multi-Threaded Synchronous Replication for Innodb
 - Write to any node on the cluster
 - Alpha Release
- Percona Online Configuration Wizard
 - <http://tools.percona.com>

tools.percona.com

The image shows a landing page for the Percona Configuration Wizard. The page has a dark grey header with the title "Configuration Wizard" in a white serif font on the left and the Percona logo (an orange circle with a white 'P') and the word "PERCONA" in white sans-serif font on the right. Below the header is a white main content area. In the center, the text "Optimize your MySQL Server" is displayed, with "Optimize" in orange and "your MySQL Server" in dark grey. Below this, two lines of text describe the tool's purpose: "Percona's experts have drawn on our experience to help you create a good starting configuration for a MySQL server." and "This tool will walk you through all of the steps necessary to create a ready to use MySQL configuration file in about 5 minutes." A large, rounded orange button with the text "Generate A Configuration File Now" in white is centered below the text. At the bottom of the page, there is a dark grey footer. On the left is the Percona logo. On the right, there is small white text: "Call us: 1-888-316-9775 • Contact Us", "MySQL and InnoDB are trademarks of Oracle Corp.", "Proudly running Percona Server", "Copyright © 2006-2011 Percona Inc.", and "Copyright, Trademark, and Privacy Policy • Sitemap".

Configuration Wizard


 PERCONA

Optimize your MySQL Server

Percona's experts have drawn on our experience to help you create a good starting configuration for a MySQL server.

This tool will walk you through all of the steps necessary to create a ready to use MySQL configuration file in about 5 minutes.

[Generate A Configuration File Now](#)

 PERCONA

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> What type of storage do you use?

Hardware RAID

It is very important to configure MySQL correctly for your storage.

> How many CPUs does your system have?

Enter the total number of CPU cores in your server, including hyperthreading. For example, if you have two 4-core CPUs with hyperthreading, enter 16.

> How much memory does your server have?

GB

Enter the number of **gigabytes** of memory this server contains.

> What is your operating system?

Linux

Specify your operating system.

> How many tables will you have?

less than 100

Approximately how many tables will be in the server?

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Sarah Novotny (Blue Gecko), Peter Zaitsev (Percona), Baron Schwartz (Percona)

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