



FAST TCO. QUICK AND PAINLESS ROI.

MIGRATE YOUR MYSQL DATABASES FROM RISC/UNIX TO INTEL/RED HAT ENTERPRISE LINUX FOR LOWER TCO AND HIGHER AND FASTER ROI

If you're seeking ways to minimize the total cost of ownership (TCO) and maximize the return on investment (ROI) of your IT expenditures, you don't have to look far. By migrating your enterprise applications from a proprietary RISC/UNIX platform to one based on Red Hat Enterprise Linux and Intel® Xeon® processor-powered Dell PowerEdge servers, you can achieve your TCO and ROI goals in less time than you could have imagined, all while maximizing performance and scalability.

We created the following migration scenario, in which the Red Hat/Dell/Intel solution reduced the TCO by 70% over a three-year period and achieved an ROI of 456%.

	MIGRATING FROM RISC/UNIX SERVER	MIGRATING TO RED HAT-DELL-INTEL SOLUTION
Database	MySQL	MySQL
Server	1 Sun Fire T5440 1.4 Ghz (4 sockets/32 cores)	1 Dell M710, Intel Xeon processor X5570, 2.93 Ghz (2 sockets/8 cores)
Operating system	Solaris	Red Hat Enterprise Linux
Application server	BEA Weblogic	JBoss

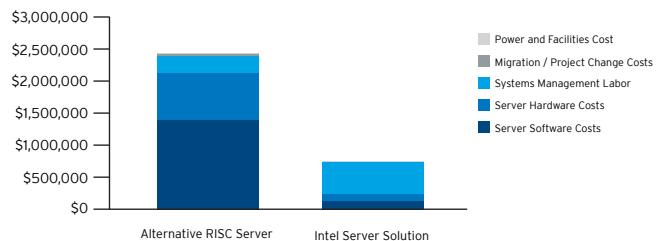
MASSIVE DIRECT COST SAVINGS RESULT IN SIGNIFICANTLY LOWER TCO

First, the hard cost savings. The actual TCO of deploying MySQL on a proprietary RISC/UNIX platform is significantly higher than that of running a MySQL application on six Intel Xeon processor-based Dell PowerEdge servers with Red Hat Enterprise Linux (see Figure 1). Under our three-year scenario, a business could achieve:

- **Significantly reduced server hardware costs.** Purchasing the Sun Fire server (\$818,000) costs almost nine times more than six Intel Xeon processor-based Dell PowerEdge servers (\$93,000) offering comparable capacity—a savings of 80%.

- **Lessened server software costs.** The total server software costs under the proprietary RISC/Unix platform (\$1.35 million) were almost 13 times what they would be under the Red Hat-Intel-Dell platform (\$106,000).
- **Decreased power and facilities expenses.** Because of the energy efficiencies enabled by the new Intel Xeon processors, enterprises moving to the Dell PowerEdge servers running Red Hat Enterprise Linux can cut their power and facilities costs by nearly 45 percent—from \$22,000 to \$12,500.

FIGURE 1: TCO COMPARISON - 3 YEAR CUMULATIVE



Moving from a RISC/UNIX platform to a Red Hat/Dell/Intel one resulted in 70% reduction in TCO.

A STRAIGHTFORWARD MIGRATION PATH – AND EXTRAORDINARY ROI

When you calculate the total benefits—both direct (“hard”) cost savings and indirect (“soft”) returns—that the Red Hat-Dell-Intel solution delivers over those offered by the UNIX/RISC platform, the results are dramatic. Implementing the new, industry-standard solution results in a 456% ROI (see Figure 2). Among the quantified benefits from our three-year scenario:

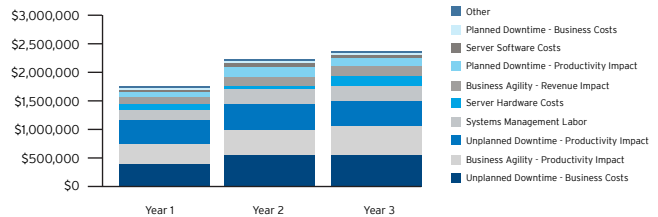
- **Reduced downtime (both planned and unplanned).** The rock-solid reliability of the Red Hat software and Intel-based Dell hardware means that planned downtime to perform routine maintenance, patches, and upgrades is substantially less than for proprietary RISC/UNIX environments (\$380,000). Additionally, unplanned



downtime is significantly reduced for the same reasons. Indeed, of all the potential cost reductions/business benefits, minimizing unplanned downtime turns out to be the second most valuable benefit, accounting for more than \$2.8 million, or almost 45%, of the total benefits of migrating (see Figure 2).

- Improved business agility.** The flexibility and scalability of the Red Hat/Dell/Intel platform means you can easily add capacity as you grow, enabling you to respond more swiftly to changing business requirements (\$1.3 million in productivity gains). And the money you've saved by moving to this platform can be redirected to more strategic initiatives – both within IT and for the business as a whole – giving you an edge over the competition (\$416,000 in revenue gains). This means that 27.3% of the benefits from migrating to the industry-standard platform came from improved business agility alone.
- Increased productivity.** The ease of use of the industry-standard Red Hat/Dell/Intel platform coupled with the large base of workers skilled in both the hardware and the operating system makes your IT workers infinitely more productive than under the RISC/UNIX scenario (\$685,000 in productivity gains). End users are more productive as well because downtime – planned and unplanned – has been reduced, ensuring that they have access to the tools they need to get their jobs done. This results in \$1.6 million in productivity gains. All in all, increased productivity makes the single most valuable contribution to ROI, accounting for 45.6% of the total benefits of migrating.

FIGURE 2: BENEFITS



Top benefits contributing to the ROI of migrating to the Red Hat-Dell-Intel platform

EXPERT MIGRATION ASSISTANCE

Currently stuck with a proprietary platform and unsure how to proceed? We provide pre-sale engineering validation and configuration services designed to help you migrate from UNIX to Red Hat Enterprise Linux by providing scoping, planning, and implementation assistance for end-to-end streamlining of the entire process. We have also created step-by-step guides for performing the migration in house or with the help of your preferred professional services vendor.

Call your Intel, Dell, or Red Hat account representative or services representative today for more information on the Red Hat Enterprise Linux-Dell solution. Contact us at Dell-Sales@redhat.com, or visit www.redhat.com/intelligence/dell.

METHODOLOGY/CONFIGURATION USED IN THIS ANALYSIS

These figures were calculated using the Intel RISC Migration TCO Calculator with industry research metrics and financial calculations contained in the Alinean ROI Analyst™ software, an independent financial modeling tool developed by leading independent ROI consultancy Alinean (<http://www.alinean.com>).

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