Achieve Total Cost of Ownership with Virtualized Regression Testing

The benefits of testing are indisputable. Protection of product reputation and the operational savings that come from dealing with defects before a product is released are two of the most significant benefits realized. However, there is another angle on savings that may be overlooked. It is the cost of the test equipment itself.

This is the dilemma of regression testing. You must protect brand reputation by testing older features in your customer install base even though many of those features may no longer contribute to your profit margin. At Spirent, we have a field-proven, robust virtual testing solution that can help eliminate these extra costs.

Automated Regression Testing with Spirent TestCenter Virtual

If you do testing - feature regression, continuous integration, or performance scale validation - using expensive, proprietary, modular, hardware-based systems, you are absorbing high capital and operational costs. Regression testing in the world of DevOps and Automation, can easily be accomplished with less expensive software-based test ports, enabling users to avoid the misallocation of expensive testing gear to regress older features that may provide little to no margin for their business in the future.
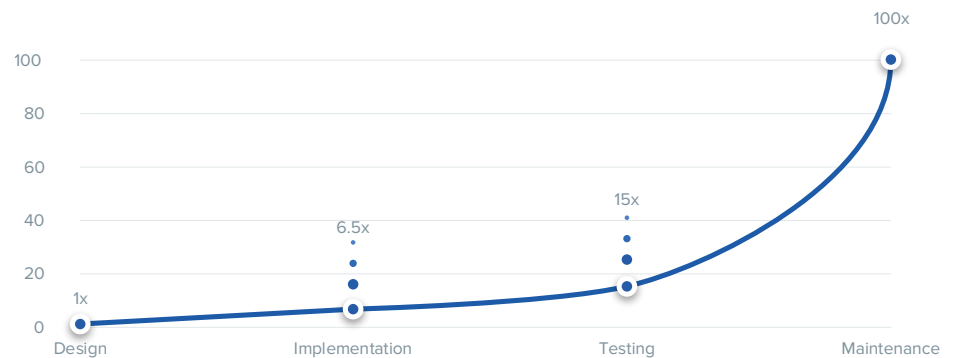

Figure 1. *Relative costs to fix software defects for static infrastructure (source: IBM Systems Sciences Institute). X-axis indicates the phase of the software development at which the defect is found and fixed.*

Spirent TestCenter Virtual lowers the cost of regression testing using a software-based test tool that supports all protocols, wizards, and automation APIs that Spirent TestCenter hardware supports. In fact, conversion to Spirent TestCenter Virtual is completely seamless for the vast majority of test cases, since these virtual solutions run on bare metal and also support leading hypervisor and cloud platforms such as OpenStack, VMware vCloud, Cloudstack, and Amazon Web Services.

Spirent TestCenter Virtual not only significantly reduces the capex and opex of your lower-margin continuous regression testbeds, but also allows users to deploy and concentrate costly high performance test equipment to their most profitable and newest platforms supporting latest features running at higher packet rates such as 100Gb Ethernet.

Spirent TestCenter Virtual Benefits

Lower Cost Per Port–Maximize TCO by effectively running virtualized regression test bed on any commodity servers. Spirent TestCenter Virtual provides test coverage with 100% flexible and portable test cases from hardware to virtual platforms.

Scale On-Demand–Spirent TestCenter Virtual enables users to expand the capacity of their test lab. Whether it's Continuous Integration (CI) or Continuous Development (CD), Spirent virtual solution delivers a highly-efficient, scalable, on-demand, low-cost build, test and deployment environment.

Automated Regression Testing–Agile development sprints require an infrastructure that is often virtual with complex VM orchestration. Spirent TestCenter Virtual gives users the ability to execute test cases quickly, configuring them in real-time, fully supported with automation APIs.

Reallocate Hardware-Based Modules–to high margin test cases. Spirent TestCenter Virtual is designed for testers to maximize TCO by effectively running the virtualized regression test beds, thereby optimizing the proprietary hardware to utilize higher performing hardware based test ports.

Reduce Lab Foot Print–Minimal server footprint with VM or Container based lab set up and low power consumption. Spirent TestCenter Virtual provides central regression infrastructure for effective lab management.

Technical Specifications	Platforms
Hypervisors	VMware ESXi 4.0, 5.0 KVM / QEMU 2.x
Linux OS	CentOS 5.0, 6.0 Ubuntu 15.10 (64-bit), 14.04 (64-bit and 32-bit) Fedora 20, 21 Windows 7 Professional (64-bit and 32-bit) 7 Professional (32-bit)
VM File formats	VMware ESXi .ova .qcow2, .rpm, .deb KVM / QEMU .qcow2 CentOS / Fedora .rpm Ubuntu .deb
Automation APIs	Tcl/Tk 8.4 to 8.5.14 Python 2.6.5 to 2.7.8 Perl 5.8 and 5.14 Ruby 1.8.6+ C, C#, Java HLTAPI (Python, Tcl, Perl), JTAPI (Perl) REST API

Contact Us

For more information, call your Spirent sales representative or visit us on the web at www.spirent.com/ContactSpirent.

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