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Going Green with Sun

Achieve Tremendous Savings with a Balanced Approach to Green IT

IT organizations are up against hard constraints in their data centers, many of which are running out of space and hitting their power and cooling limits. In fact, in some electricity markets, the cost to power a server is greater than the price of the hardware it powers, adding an economic incentive to purchase energy-efficient servers, storage, and network components. In some areas, the cost of this inefficiency is so high that IT organizations require vendors to include carbon footprint data along with their hardware sales proposals.

However, despite the growing importance of lowering energy consumption, companies should not strive for this efficiency at the cost of several other important underlying characteristics of a data center: scalability, reliability, availability, serviceability, manageability, and security. Striking a balance is the key here.

Overcome the Space, Power, and Cooling Crunch

Sun's Eco-Optimized SAP Data Center solutions provide a methodology for upgrading existing SAP Business Suite applications with eco-efficient Sun servers, storage systems, Solaris operating systems, and industry-leading virtualization technologies. These solutions provide energy efficiency, while maintaining a scalable, reliable, and secure data center. As you consider a green IT initiative, keep in mind these pieces of advice to reduce your energy and data center footprint:

- You can't improve what you can't measure. With the Sun Value Tool-Eco, you can model your current IT environment to fully uncover and understand many environmental aspects of your data center, including floor space costs, power costs, and carbon dioxide generation. These metrics provide a baseline from which to start your green initiative and determine areas of improvement.
- Replace legacy hardware with new, powerful, more energy-efficient servers and storage systems.

The Sun server and storage system – including its CPUs, RAM, power supplies, cooling systems, and disks – is designed to increase performance and efficiency. And with tools like Sun SwaP and Power Calculators, you can calculate how a single server affects the data center.

- Consolidate applications and virtualize resources to increase flexibility and utilization. Sun is working with SAP to integrate its no-cost virtualization technologies with the SAP Adaptive Computing Controller tool to enable companies to start, stop, and relocate SAP instances in a virtualized environment.
- Run an optimized operating system to take advantage of the intelligent performance and automated energy efficiency built into new processors, like the Intel Xeon processor 5500 series. One such system is Sun's Solaris 10. A study by Crimson Consulting Group determined that running Solaris 10 on Sun's hardware rather than Solaris 9 can result in an average power and cooling savings of approximately 60%, and an average space savings – from consolidation and virtualization – of approximately 57%.¹
- Increase the efficiency of data center power and cooling distribution. Sun gained valuable experience from redesigning its own data centers, cutting its utility bill by 60% and earning over \$1 million in rebates. Based on this experience, Sun offers services that can help you choose the right path toward eco-efficiency and cost savings.
- Extract the most efficiency from your data center by considering every aspect of your IT architecture and keeping track of advancements, such as new chip designs that will provide alternative ways of storing data through a solid state disk.

To learn more, visit www.sun.com/sap/upgrade. ■

¹ See www.sun.com/offers/details/solaris10upgrade.xml to learn more.