

# Stromasys: the original and leading provider of enterprise-class cross-platform virtualization solutions

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Stromasys is the original and leading provider of enterprise-class cross-platform virtualization solutions, including PDP-11, Digital VAX and Alpha, HP 3000, and SPARC servers. The company extends the life cycle of business and mission-critical systems through virtualization, modernization, and system enhancement.

Stromasys has successfully implemented more than 5,000 cross-platform virtualization solutions for the world's leading companies in over 50 countries.

## Company Profile

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Stromasys is the international leader of innovative virtualization solutions that replace aging hardware platforms with modern alternatives.

Stromasys was founded in 1998 to initially provide software migration projects across the world. We rapidly became the pioneer of a unique technology, which allows companies worldwide to preserve their critical software when they replace their outdated hardware. Headquartered in Geneva, Switzerland, Stromasys has offices in Raleigh, North Carolina and Hong Kong, People's Republic of China and 4 research labs located around the world.

## Solid financial foundation

Stromasys is a privately held company. As a leading enterprise software entrepreneur, our top stakeholder is financially strong and thoroughly investing in product enhancement and new solution development.

## A unique technical experience

With 16+ years' experience supporting hundreds of customers across the world, Stromasys is continuing its development. A recent change in leadership and stakeholder brought the company to a new level.

Our team represents decades of cross-platform emulation and system virtualization experience, providing technology services to the world's leading companies.

The team is composed of and not limited to the following functions:

- Research and Development Engineers
- Sales
- Pre-sales
- Support
- Services
- Operations
- Accounting/Finance
- Administration

The Stromasys team consists of seasoned subject matter experts who represent decades of collective experience supporting cross-platform emulation within complex environments.

As the world's leader in cross-platform virtualization technologies, with hundreds of satisfied clients, we have significant experience and knowledge in our product implementation and support. We are able to manage projects of various sizes and complexity.

Our commitment to innovation and customer satisfaction is apparent through the regular product launches and increased customer database since the formation of the company. We issue regular updates on our product portfolio and our engineering teams are working on continuous enhancements of our solutions thanks to close customer collaboration.

## Strong market position and coverage

Stromasys is the worldwide leader in cross-platform virtualization.

We have enabled nuclear power plants, telecommunications companies, financial institutions, extensive rail networks, government organizations, and complex industrial automation users to continue operating their existing software on new hardware.

We benefit from a long-term business relationship with HP, Oracle, VMware and Red Hat. To date, the Stromasys SPARC emulation product set is the only emulation product set in the market covering several systems.

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Stromasys has been recognized by the Gartner group in their 2011 technology report as the leader in “processor emulation” and we earned a place on Gartner’s prestigious “Cool Vendors” list for 2013. The report, entitled “Cool Vendors in the Server Market, 2013” highlights the approaches of innovative vendors whose strategies for server market evolution differ from those of established server vendors.

According to the report, *“Through the remainder of the decade, the pace of innovation and change in the server market will be more disruptive than ever. Whether they're looking to increase densities; lower costs; or converge servers, storage and networking, IT leaders will need to get a handle on this volatile vendor market.”* **GARTNER COOL VENDORS**

Stromasys provides solutions to a wide range of businesses, from small to large. Our customers operate in all kinds of verticals: financial, transportation, telecommunications, government, manufacturing, and more.

Companies like ABB, Bell Canada, British Telecom, EDF, Dexia, Fiat, Nestlé, Thales and Honeywell have implemented our solutions.

## Expertise in engineered solutions for the changing face of IT

IT departments are under constant and competing pressures to contain and reduce risks on one hand, and reduce costs on the other, all while meeting steep demands of the business units they support.

In recent years, the position of the IT department has become even more challenging. As cloud-based solutions give business units more autonomy, IT is saddled with maintaining an increasingly complex patchwork of disparate technologies and solutions.

We don’t claim to solve all of IT’s challenges, but we can dramatically simplify the support and operation of your classic applications — those deployed on PDP-11, VAX, Alpha, HP 3000 and SPARC machines.

At Stromasys, we have built our business by keeping our customers’ mission critical applications running on stable, virtualized platforms. With customers including many of the largest companies in the world, our Charon software is the premier solution for the changing face of IT infrastructure.

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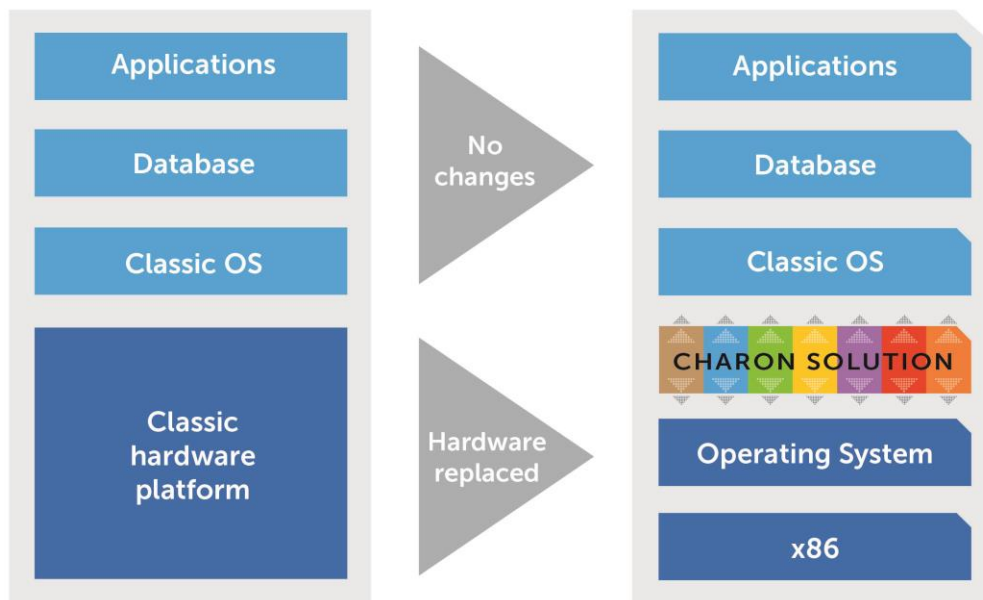


# Preserving Your Software Investment Across Hardware Generations With Stromasys

With Charon cross-platform server virtualization software from Stromasys, customers can replace classic hardware while the original operating system, layered software, and applications continue to run without modification on new, industry-standard hardware. Stromasys software products provide the benefits of virtualization without the usual drawbacks; that is, it costs a fraction of what typical migration or virtualization projects cost and increases performance automatically by using modern CPUs, storage systems, and networks. We strive to make our solutions as cost-effective as possible, knowing that our customers often work within tight budgets.

## Stromasys Solutions

Designed to virtualize classic platforms, Charon presents a virtual replica of the original hardware system to the operating system. Charon runs the operating system and application software, including the original hardware diagnostics, in their existing form, while allowing you to replace aging hardware with new, modern equipment. Charon solutions reduce the maintenance costs and business risks typically applicable to classic applications. There is no application source code or conversation required.



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# Explore the Options for Classic Systems

Organizations saddled with decades-old computer systems cannot easily replace them. Classic hardware, software, and operating systems often form the bedrock of their operations, and these companies have incrementally modified or enhanced these systems over many years, to the point where they are exceedingly complex and prohibitively expensive to duplicate. To bring these mission-critical applications in line with a broader data center transformation strategy, companies have a few options to consider with greatly varying costs and benefits.

## Application Migration

Re-writing the application to run on more modern operating systems and hardware platforms is an expensive and risky proposition. The classic system has likely been running for 20 or more years, is composed of millions of lines of code, contains thousands of workflow processes, and has had hundreds or even thousands of modifications over the years. Furthermore, the company has an absolute dependence on the proper and effective operation of the application to keep operations running. "Porting" is a high-risk, multi-year, multi-million dollar proposition.

## Buy a New Application

Companies may look for off-the-shelf solutions. Typically, these are written with a "one size fits all" approach and come with the best and brightest consultants to configure and implement this type of new system to meet an organization's specific workflow requirements.

Both the "porting" or "buying" options necessarily require large-scale retraining of administrators and end users, which tends to create large change management headaches for organizations—all at a time when people are already overworked just keeping up with their day-to-day responsibilities.

## Virtualization with Charon™

With Stromasys, companies invest in a cost-effective and low risk solution to maintain their existing and high-functioning classic system applications—thus avoiding the headaches that accompany application migration. No source code is needed. Third party risk assessments have determined that Charon is a low risk solution. In addition, by maintaining the existing applications, companies avoid the retraining and recertification that often accompany the implementation of new applications. At Stromasys, we know the companies we work with have strong applications, and our solutions enable business continuity and minimal disruption.



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# Software Solutions

	<p>CHARON-PDP creates a virtual PDP environment on a standard Windows based host system. Stromasys customers can quickly, easily, and safely phase out aging and increasingly expensive DEC hardware, and replace it with an enterprise-grade virtual PDP environment on an industry-standard x86 platform.</p>
	<p>Largest product line is the VAX replacement; sold over 3,000+ licenses VAX emulator market contains three main segments that CHARON-VAX addresses Standalone systems for process control or administration systems, Military and Industrial standalone or embedded systems Corporate VAX data centers using high performance cluster systems.</p>
	<p>CHARON-AXP creates a virtual Alpha environment on a standard Windows or Linux based host system. Stromasys customers can quickly, easily, and safely phase out aging and increasingly expensive DEC hardware, and replace it with an enterprise-grade virtual Alpha environment on an industry-standard x86 platform. .</p>
	<p>CHARON-HPA is a software solution that creates a virtual HP 3000 system environment running a 100% unmodified copy of MPE/iX 7.5. This is accomplished on industry standard Intel x64 servers running one of three supported Linux distributions: Fedora 20 (or below), Red Hat 7.0 (or below) and Ubuntu 12.10 (or below) or under VMware running on of the three supported Linux distributions as a guest operating system.</p>
	<p>CHARON-SSP solution recreates the SPARC virtual hardware layer on industry standard x86 computer systems. The virtual layer is compatible with any software running on it and acts as SPARC hardware. This virtual hardware is the only one SUN Solaris and its applications can run on a secure yet simple platform. As a member of the Oracle Partner Network, Stromasys makes it easier for their clients to move to CHARON-SSP on an Oracle Sun x86 Linux server.</p>

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# CHARON™ Features

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Stromasys value-added:

- Multi-OS Solution (OpenVMS, MPE/iX, Tru64 UNIX, SUN Solaris)
- Multi-platform virtualization (Windows, Linux, VMware)
- Scalable
- Turnkey and customizable solution
- Seamless migration
- Easy implementation
- Optimal learning curve
- Management simplicity
- Proven and reliable solution
- Heterogeneous architecture supported

## Why Virtualization is Your Best Option

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### Business continuity

- Benefit from minimal disruption during migration to new hardware platforms, as all applications, middleware and data remain unchanged.
- Disaster recovery facilities use industry standard hardware platforms and require a lower investment than providing duplicate classic hardware.
- Modern hardware improves reliability and availability using redundant hardware and data replication technologies not available previously in classic hardware.

### Reduce risk

- Downtime is not an option for your mission-critical systems. By removing the classic hardware from the equation, Charon solutions eliminate the risk of unplanned downtime.
- Extend the life cycle of your critical applications. The classic hardware may be end-of-life, but the applications running on that hardware are not. With Stromasys, those applications will continue to run, unchanged, on a modern platform – thus ensuring business continuity.

### Lower costs

- Not only are Stromasys solutions lower in cost than full migration, but they are often less than the cost of a single year's support of the classic hardware.
- You will also get a substantial reduction in energy consumption, decreasing the utility bill, not to mention your company's environmental impact!
- Thanks to Charon, you are also saving money on user training or re-certification; choosing our solution does not incur any of these costs.

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## Improve performance

- Stromasys solutions run on modern architecture, bringing your applications into the 21st century.
- Customers marvel at the dramatic speed improvements when running commands on Charon compared to the original hardware – accomplishing tasks in a fraction of the time!

## Data Center Consolidation

- With Stromasys' classic system virtualization solutions under VMware, customers can finally enjoy enterprise consolidation and integration using a common virtual data center infrastructure.
- Replacing classic system hardware with industry-standard server infrastructure simplifies data center management and operations with the same set of management tools used for modern server platforms.
- Customers save a great deal of time and effort with regards to backup and archive tasks, using the latest network and removable media and automated tool.

## Some References



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