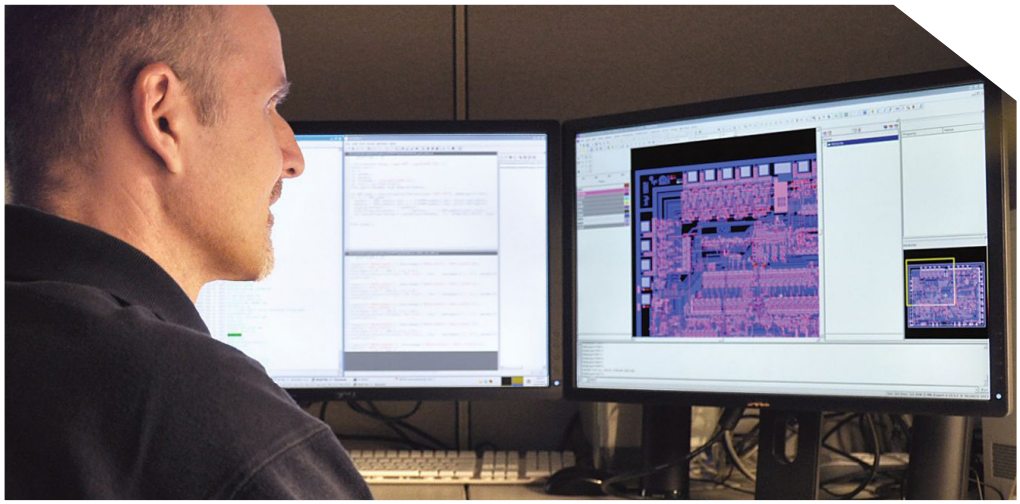
SUCCESS STORY

Charon-SSP Extends the Life of Rochester Electronics' Legacy Applications and Preserves Intellectual Property for Semiconductor Replications

The Challenge

Aging data centers often rely on legacy technology. When applications require continued use beyond the life of their hardware, virtualizing legacy servers can preserve investments. With the right software bridge, companies can remove the old hardware hosts, and replace their servers with modern infrastructure. The crucial element is software designed to emulate the legacy system. For Rochester Electronics, Stromasys' Charon virtualization software made that replacement possible, affordable, and efficient.

The Design Technology team at Rochester used Stromasys' Charon-SSP to move their circa 1996 Sun SPARC servers out of its data center. The native hardware from Sun is obsolete, and the servers are no longer supported by any manufacturer. However, the legacy SPARC applications still drive valuable intellectual property (IP), which was at risk of being lost, due to the aging hardware and an inability to repair the Sun systems.



Rochester is the world's largest continuous source of semiconductors. The company focuses on providing semiconductor lifecycle management. Semiconductor devices that are end-of-life (EOL) or obsolete still have critical applications in industries where support for long product lifecycles is essential. Rochester provides continued licensed manufacturing and product replication to support its customers where changing system software in long-life systems is not an option.

Rochester relies on legacy IP to support customers with the challenges of semiconductor obsolescence, as part of a fully authorized semiconductor replication process. Preserving IP was crucial.

Bringing legacies into the future

Stromasys is an original and leading provider of enterprise-class cross-platform virtualization solutions. Their experts worked alongside Rochester's Design Technology staff to deploy Charon-SSP for SPARC virtualization. Charon-SSP allowed off-the-shelf Intel-based hardware to operate the virtualized SPARC system, and permitted the Sun hardware to leave the data center.

CUSTOMER PROFILE

Rochester Electronics is the world's largest continuous source of semiconductors–100% Authorized by over 70 leading semiconductor manufacturers.

As an original manufacturer stocking distributor, Rochester has over 15 billion devices in stock encompassing more than 200,000-part numbers, providing the world's most extensive range of end-of-life (EOL) semiconductors and broadest range of active semiconductors.

As a licensed semiconductor manufacturer, Rochester has manufactured over 20,000 device types. With over 12 billion die in stock, Rochester has the capability to manufacture over 70,000 device types.

Rochester o ers a full range of manufacturing services including Design, Wafer Processing, Assembly, Test, Reliability, and IP Archiving providing single solutions through to full turnkey manufacturing, enabling faster time-to-market.

Rochester is the Semiconductor Lifecycle Solution. No other company compares to the breadth of Rochester's product selection, value-added services, and manufacturing solutions.

With direct sales and support staff in all major markets, complemented by a network of regional and global authorized channel partners, we aim to meet your needs over the phone or via our e-commerce platforms anytime, anywhere.

For more information visit: www.rocelec.com

stromasys

The Charon-SSP software merged the commands of the legacy Solaris application with the technologies of current, modern systems. The Stromasys and Rochester teams were able to preserve the operating system, application, and design data. This preservation meant no software rework was necessary, or translation of commands and data. Original operating systems settings (Solaris 2.5.1), including kernel options, were kept intact.

Charon-SSP is part of the Stromasys' Charon hardware virtualization product family. The SSP version of the software creates a virtual replica of the original SPARC hardware inside of a standard x86 compatible computer system. At Rochester and elsewhere, Charon allows for the continuous use of legacy applications, extending the life of legacy hardware.

Better and faster than before

For Rochester, the overall performance of the emulated system has been enhanced. CPU intensive tasks that would have taken hours, can now be executed in minutes. Disk performance has increased since it is no longer reliant on SCSI disks that spin at low speeds. By using modern hardware at modern networking speeds, network and other IO performance has accelerated as well.

Rochester Electronics' mission-critical applications have an extended life today through Charon's virtualization, modernization, and system enhancements. Rochester's legacy design system, powered by Charon-SSP, creates one of many solutions available to Rochester customers as part of their semiconductor lifecycle solution.

About Stromasys

Stromasys is a pioneer in enterprise-class cross-platform legacy server emulation solutions, providing modern infrastructure for legacy applications. Founded in 1998 and headquartered in Geneva, Switzerland with sales, engineering, and research and development offices located around the world, Stromasys has cross-platform virtualization implementations in over 70 countries and has helped thousandes of organizations lower costs, protect their investments, improve performance, reduce risk, and provide easier maintenance.

Americas

2840 Plaza Place, Ste 450
Raleigh, NC 27612
USA

Tel: +1 919 239 8450
Fax: +1 919 239 8451

Email: us.sales@stromasys.com

Europe, Middle East, Africa

Avenue Louis Casaï, 84
1216 Cointrin / Geneva
Switzerland

Tel: +41 22 794 1070

Email: emea.sales@stromasys.com

Asia Pacific

Room 1113, 11/F, Leighton Centre
77 Leighton Road, Causeway Bay
Hong Kong, SAR, China

Tel: +852 3520 1030
Fax: +852 3250 1031

Email: apac.sales@stromasys.com

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www.stromasys.com