

University of San Diego-  
San Diego, CA

IT Director—Douglas Burke

**Suppliers of Software & Systems Integration:**

- Salem Automation , Inc.  
Winston-Salem, NC

**Software Utilized:**



- CHARON VAX/XM Plus  
on Microsoft Windows

**Hardware Replaced:**

- (2)VAX 6330
- RA92 Disk Drive

**New Hardware:**

- CHARON VAX XK –  
PLUS on a HP 370  
Server with Raid 5 Disk  
Drives

**Installation completion:**

December 2003

## University of San Diego

### University of San Diego CHARON Conversion a Success!

University of San Diego had a problem. Their 17 year old reliable DEC VAX computer system hardware was beginning to concern the staff it may have an unplanned failure. After some research, USD identified the CHARON VAX emulation as a way to achieve their main objective which was to provide a stable and repairable platform for their legacy applications. Initially, they had been looking to replace the ageing VAX with slightly newer, but used, VAX equipment. The other alternative, moving to a newer system, would have required many months of re-programming to bring all of the old applications and databases up-to-date. Since USD's VAX was viewed as a legacy system, the investment of time and labor were not justified. The CHARON software strategy USD is to "preserve your software investment across hardware generations" which is exactly what USD was looking for in this situation.



## The Solution to the Challenge

USD needed new hardware to run their old software programs (as-is) for a finite period of time. USD staff investigated both the CHARON software and the delivery company, Salem Automation finding them both a match to USD's needs and CHARON VAX a cost effective solution. USD was using (2) VAX 6330 systems with 256MB of memory each in a VAX CI Cluster environment. The USD VAX applications can run on 1 VAX with a few exceptions. Currently all users and printers are accessing the VAX CI Cluster system through the network by Telnet LAT and Terminal Servers. Salem Automation provided a solution to the problem replacing the current VAX CI Cluster system with a CHARON VAX XK PLUS running on a HP ProLiant server. The CHARON VAX XK Plus product emulates a VAX 3100-98 with 256 MB of RAM and has a VUP rating of up to 120 on the latest HP ProLiant servers.

# Project Outcome



From this  
large old-  
VAX to



this small  
rack in  
one easy  
Weekend!



**Salem  
Automation  
Incorporated**

Systems Integration Specialists

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Suite 40  
Winston-Salem, NC 27106

*We're on the Web -*  
[www.SalemAutomation.com](http://www.SalemAutomation.com)  
[www.CHARONVAX.com](http://www.CHARONVAX.com)

## Company Profile:

Incorporated in 1992. Offices in Winston-Salem NC, Boston, MA, Phoenix, AZ, Charlotte, NC , & Humacao, Puerto Rico

## Company Mission:

To provide high quality automation solutions and cost-effective engineering services to manufacturing companies via Win-Win business relationships.

## Staff:

Engineers with varying backgrounds including Chemical Engineering, Electrical Engineering, Instrument Engineering and Computer Science. Most all of our staff members have over 15 years experience. Staff experience is extensive in the areas of distributed process control systems, programmable controller based systems and computer based process control. Industry experience in Textile, Food, Tobacco, Chemical (Batch and Continuous), Metals, Utilities, Furniture, Tire and Pharmaceutical.

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