

Case Study –

OpenVMS in the cloud

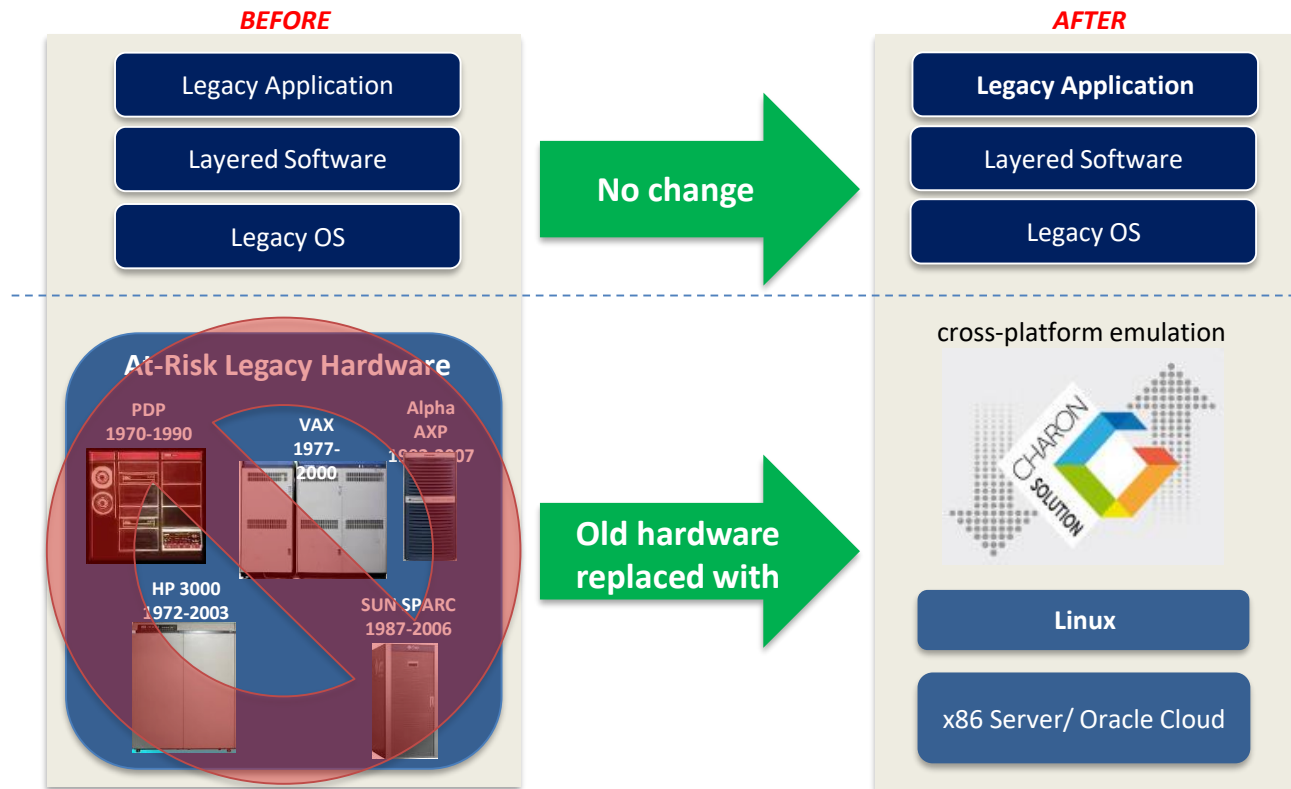
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stromasys
legacy server emulation

« YOUR GATEWAY TO BUSINESS CONTINUITY »

HOW CHARON WORKS



OUR CURRENT PORTFOLIO

CHARON-VAX



- 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



CHARON-AXP



- Alpha systems are found in the same worldwide markets as VAX, but more frequently in administrative systems
- More than 1,000 systems have been replaced with a CHARON-AXP version



CHARON-HPA



- The CHARON-HPA runs the HP3000 MPE operating system and its applications
 - Critical for online order processing, inventory control and general administration
- Environment is so unique that application migration rewriting implies investments of \$1 million+ for clients / users



CHARON-SSP







- Developed for SUN SPARC architecture
- The emulator functions exactly like the SPARCstation hardware
- The target market is high volume legacy system consolidation on server farms for large corporate data centers



CHARON-PDP



STROMASYS AND ORACLE CLOUD

ORACLE® Partner Portal		
Listings		
Started Submitted Published Archived		
Name ▲▼		Version
	Charon Virtual SPARC Run legacy Solaris and Applications Without Modification on Oracle Cloud Infrastructure Service Name: OCI Compute	3.1.28
	Virtual SPARC on OCI Run legacy Solaris and Applications on Oracle Cloud Infrastructure	2.0
	Virtual VAX on OCI Run legacy OpenVMS and Applications (including Oracle Rdb) on Oracle Cloud Infrastructure	4.9
	Virtual Alpha on OCI Run legacy Tru64 or OpenVMS and Applications (including Oracle Rdb) on Oracle Cloud Infrastructure	4.9

CASE STUDY – ORIGINAL STATE

- AlphaServer ES 40, 1 CPU, OpenVMS V8.3
- Application:
 - Data entry through a Cobol application
 - Data is entered into fields by hand (i.e. low bandwidth)
 - Data captured by Cobol application
 - About 10-15 concurrent users at peak time
 - Nightly batch jobs are sent from the application to the database with minimal data returned
 - Order fulfillment jobs are run from the OpenVMS application as well against the database.
 - These run about once a week by operators
 - The operators are doing other things as well
 - They are not waiting for response (time).
- Oracle database on Linux on prem
- VMS support through VSI
- Customer wants to currently stay on 8.3
- Previously was an AlphaServer 1200

CASE STUDY - NEW STATE

- Using Oracle Cloud Infrastructure (OCI)
- Oracle: B1.2 cpu shape with Linux (2 cores, 2.3Ghz) and 256 GB of storage
- Stromasys: Charon-AXP DS20 version 4.10 (single CPU)
- Restored 3 filesystems/disks DKA0, DKA1 and DKA2
- Communication needed to be setup with database still on prem.
- Oracle assisted in setting up connectivity between LAN segment in Cloud and on prem network.
- For OpenVMS and the app this was seamless
- Backups can be done in cloud now.
 - VMS makes regular backup to a scratch disk (no changes to current backup procedures) (scratch disk = vdisk)
 - Linux zips the virtual disk
 - Linux copies the zipped disk to backup storage (cloud or Formedic on-prem storage).

HOW IS IT RUNNING?

- **Performance overall is fine from a department wide load test**
- Customer: “same as before”
- Observed from the LINUX oracle server
 - it seemed to stay always around 25% user CPU usage
 - with about 70% idle time
 - and 100KB/sec for IO (read+write)
- Observed from OpenVMS monitor
 - CPU did get up to 100% when some intensive SQL jobs were run
 - Users were still able to access the database without issue
 - Disk IO and paging was not an issue.

OPENVMS AND RDB NOT NEW TO STROMASYS

- History of customers worldwide
- Over 7K licenses sold, over ½ VAX /AXP running VMS
- Extensive Partner network

YOUR GATEWAY TO BUSINESS CONTINUITY

THANK YOU

