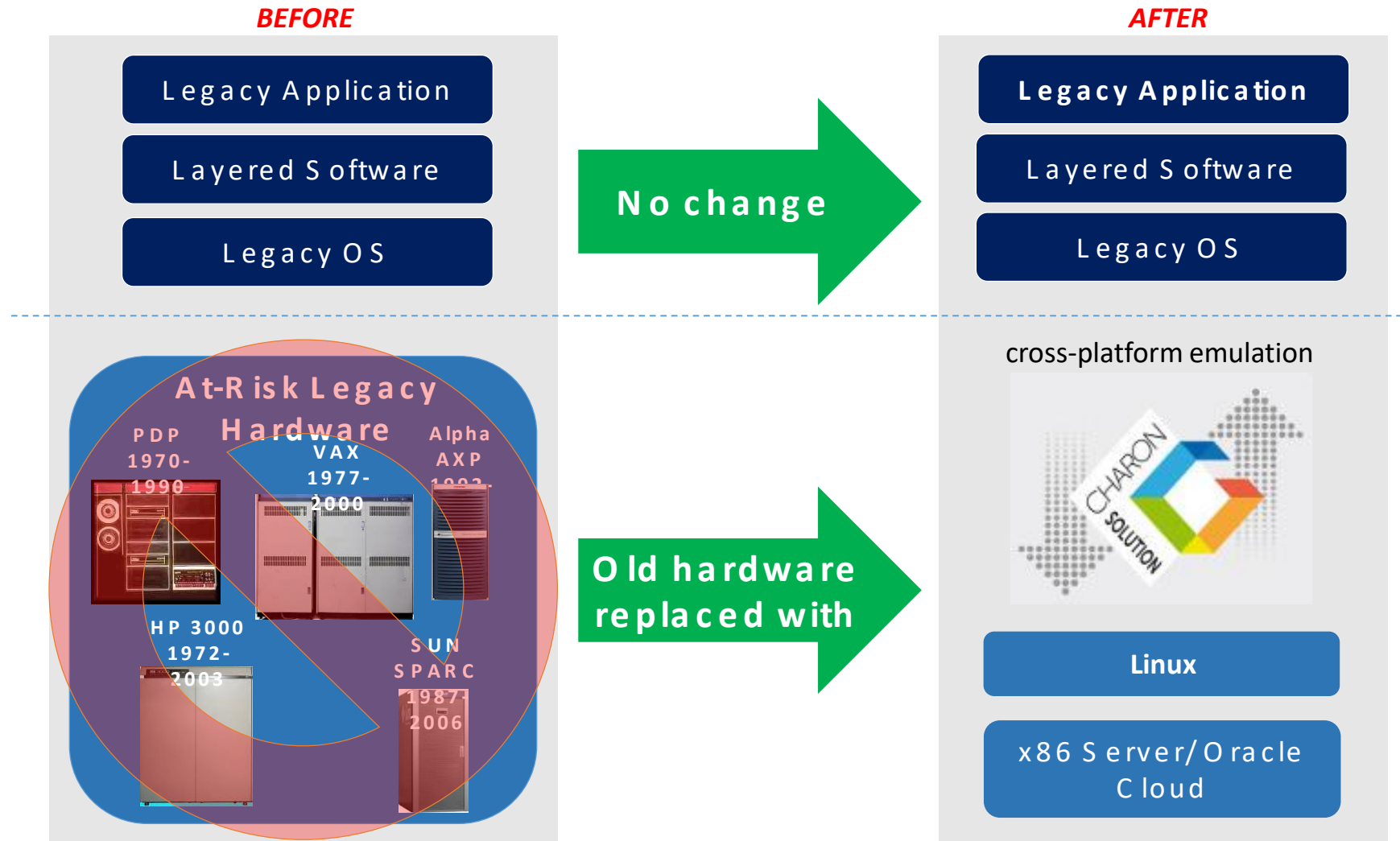


# Case Study VMS in OCI

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# How it 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

## Search Results

Sort by Relevance ▼



Virtual Alpha on OCI

Run legacy Tru64 or  
OpenVMS and Application

★★★★★ (0)



Virtual SPARC (32-Bit)

Run legacy Solaris and  
Applications Without

★★★★★ (0) Paid Hourly



Virtual SPARC on OCI

Run legacy Solaris and  
Applications on Oracle

★★★★★ (0)



Virtual VAX on OCI

Run legacy OpenVMS and  
Applications (including

★★★★★ (0)

# Case Study

- Single cpu ES40 running VMS 8.3
- Data entry is done by 10-15 concurrent users at peak times. This is through a Cobol application that captures the data entered into fields by hand. (i.e. low bandwidth)
  - Nightly batch jobs are sent from the application to the database with minimal data returned back.
  - Order fulfillment jobs are run from the OpenVMS application as well against the database. These run ~ once a week. These programs open a cursor and process the rows returned one at a time (200-300 rows usually). The operators runs these jobs and are doing other things as they run (i.e. nobody will be waiting at a terminal complaining about response time).
- Previously was a 1200
- Oracle database on Linux
- VMS support through VSI
- Customer wants to currently stay on 8.3

# New state.

- B1.4 cpu shape (testing on B1.2) with Linux
- Charon-AXP DS20 version 4.10 (single cpu)
- 256 GB of storage.
- Restored 3 filesystems DKA0, DKA1 and DKA2
- Communication with database still on prem.
- Oracle assisted in connectivity between LAN segment in Cloud and on prem network. Seamless to VMS and apps.
- Backups can be done in cloud now.

# How is it running?

- **Performance overall is fine from a department wide load test**
- 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).
- From VMS monitor, CPU did get up to 100% when we ran some intensive SQL jobs but users were still able to access our database with no 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