



# Cisco IT Case Study: Improving SAS PM Performance and Costs by Migrating to Cisco UCS B440 Blade Server

Cisco IT

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# Overview

- Challenge

Continue meeting daily reporting deadline despite more data sources

- Solution

Migrate SAS PM from HP Integrity rx8640 to Cisco UCS B440 Server

- Results

Faster processing, accelerating allocation time from 180 to 50 minutes

Lower operational costs

Lower capital costs

Increased resilience

# Challenge

Continue meeting daily reporting deadline despite more data sources

- Cisco IT developed Allocation Engine application for agile allocation of costs and revenues to different parts of the organization
  - Reports used for investor relations schedules, P&L reporting, business reviews, contribution-margin reporting
- Meeting daily 9:00 a.m. deadline became difficult as number of data sources increased
  - Reason: inadequate shared memory on HP-UX system
- Faster processing became urgent when finance teams began requesting profitability data by product, not just product family
  - SAS PM would need to process 100 million instead of 30 million records

# Solution

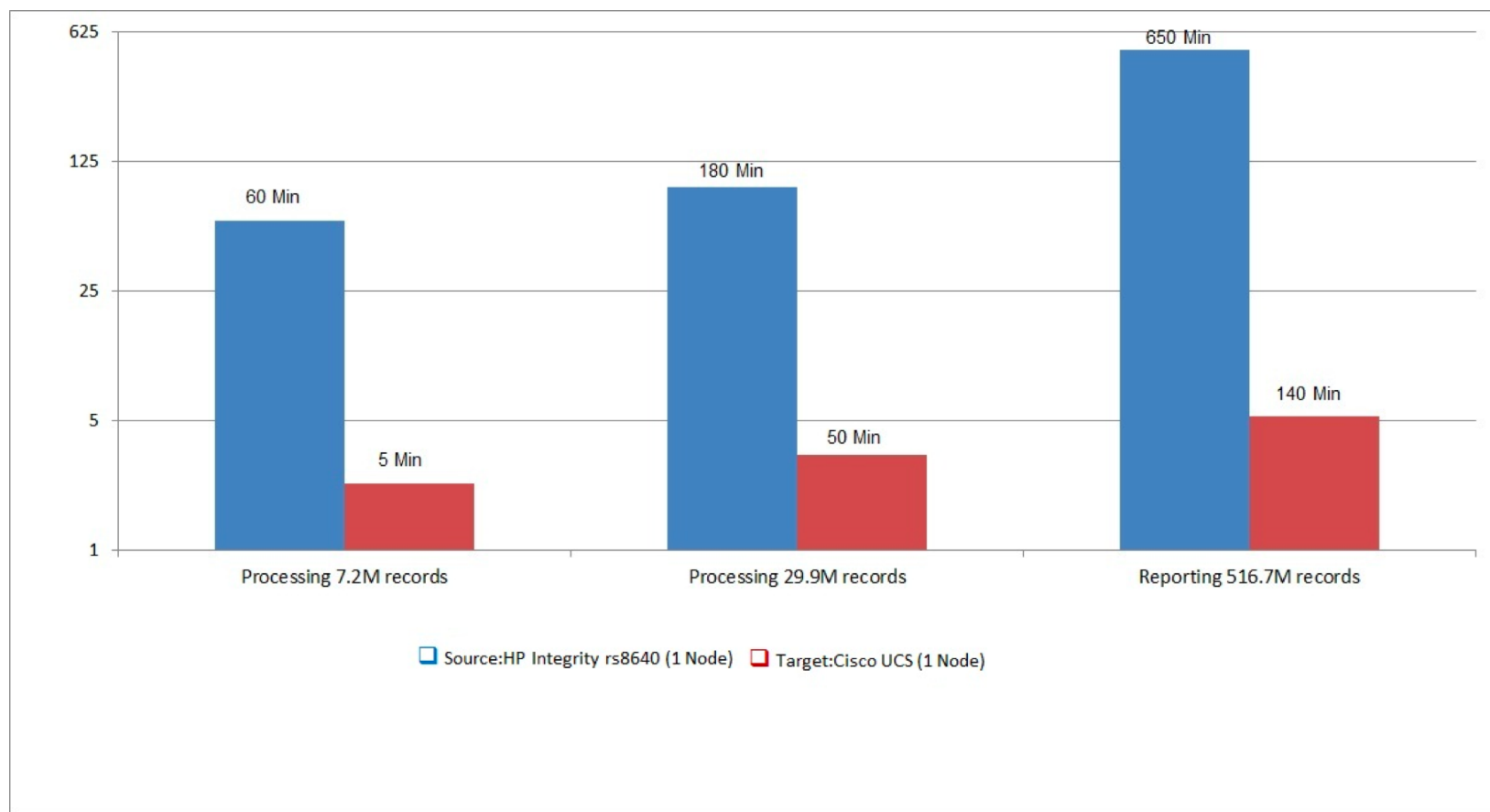
Migrate SAS PM from HP Integrity rx8640 to Cisco UCS B440 Server

- No issues moving data from HP-UX to Red Hat Linux
- SAS PM application needed no modifications to continue connecting to upstream and downstream financial systems



# Results

Faster processing, accelerating allocation time from 180 to 50 minutes



# Results

Lower operational costs

	Source: HP Integrity rx8640	Target: Cisco UCS B440
Data Center Space	1-1/2 Rack	1/7 Rack
Power	5.5 kW	3.5 kW
Interfaces: Production, Staging, and Development Systems	19	5
Number of Servers System Administrator Can Support	Fewer	More

# Results

## Lower capital costs and increased resilience

- Cisco UCS B440 Blade Server cost less than 10 percent as much as HP-UX server
- Reason 1: More cost-effective memory
  - Cisco UCS B440 Blade Server: 256GB of RAM built from 8GB DIMMs operating at full speed (1067 MHz)
  - HP server: 56GB built from 2GB DIMMs operating at 133MHz
- Reason 2: 40 percent lower cabling costs
- Plus, if the blade fails, Cisco IT can quickly restore service by applying a Cisco UCS Manager service profile to any other available blade

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