

### Road to the All-Silicon Data Center

Narayan Venkat Vice President, Products

# Real Time Data Access is a Reality



#### **Business Transformation is Underway**



Personalized Customer Promotions at POS



In-game Sales Improved User Experience



Faster Transactions Real Time Risk Assessment



Call Analysis & Delivery New Data Services

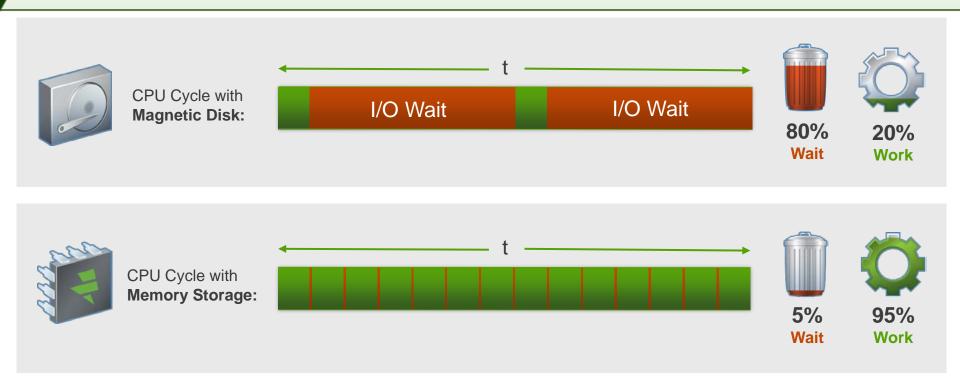


Immediate Market Insights Faster Responses



Increase end-user productivity Lower OPEX/CAPEX

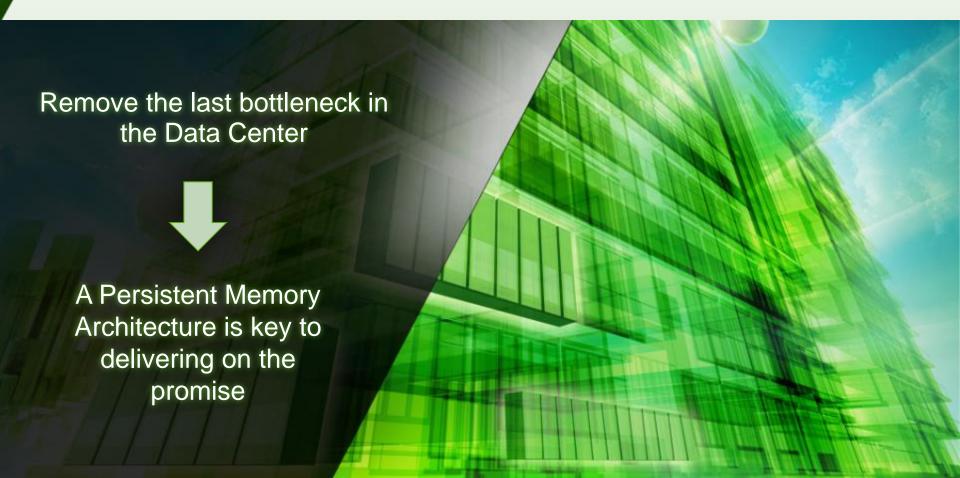
## Eliminating Latency – The Key to Higher Efficiency



**Orders of Magnitude More Work In the Same Time** 



### All Silicon Data Center Is the Only Approach



#### The World is Rapidly Changing for the Better

# 2011



- 8 Engines, 960 drives
- 1 Million Read IOPS
- 5 Racks or 210RU 32,000 Watts

# 2012



- 2 Violin 6616 Memory Arrays
- 1 VM at 1 Million IOPS (Random R/W Mix)
- 6 RU (97% less) 3,600 Watts (90% less)



### Violin Memory: Making Businesses Run @ the Speed of Memory

Founded in

'05

- Team of Flash industry pioneers
- Flash Memory Arrays Since 2009
- 4<sup>th</sup> Generation Platform

- Doubled employee count over last 18 months
- HW & SW innovation
- 200+ Engineering team

450 Employees

Next Gen
Tier 1

- Designed for Tier 1
- Worldwide support capability
- Proven industry-leading performance
- Fortune 500 leaders
- Aggressively adding logos
- Web, Telco, Banking, Retail, Govt., Healthcare, etc.

300+
Customers



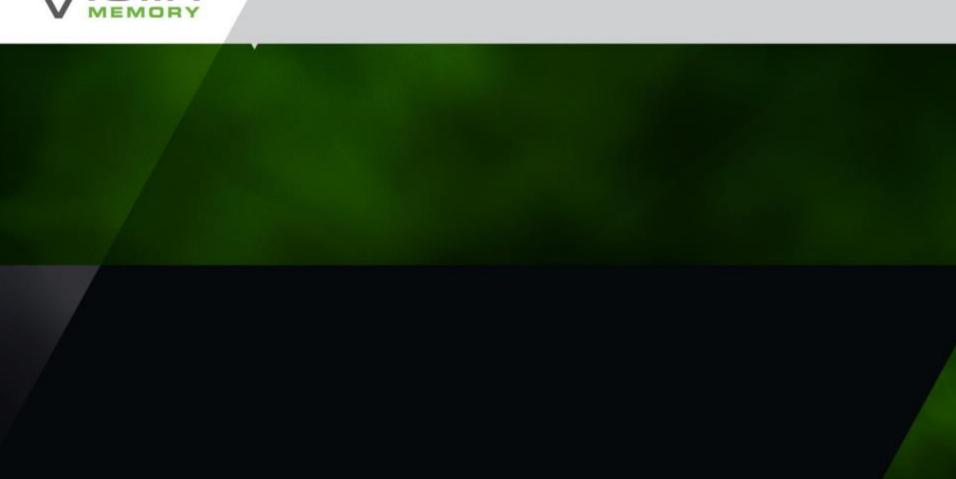
- Toshiba: NAND Flash Inventor with close R&D collaboration
- Leading strategic investors: Toshiba, SAP, Juniper...

- World Wide Headquarters in Silicon Valley, CA
- SV Startup of the Year (2011)
- Global Presence









### Violin Delivers Storage @ the Speed of Memory

#### Memory Cards



Scale-Out Applications on Server-based Flash

#### **Memory Cache**



Enterprise Applications on Legacy Storage



**Memory Arrays** 



Enterprise Applications on Memory Storage

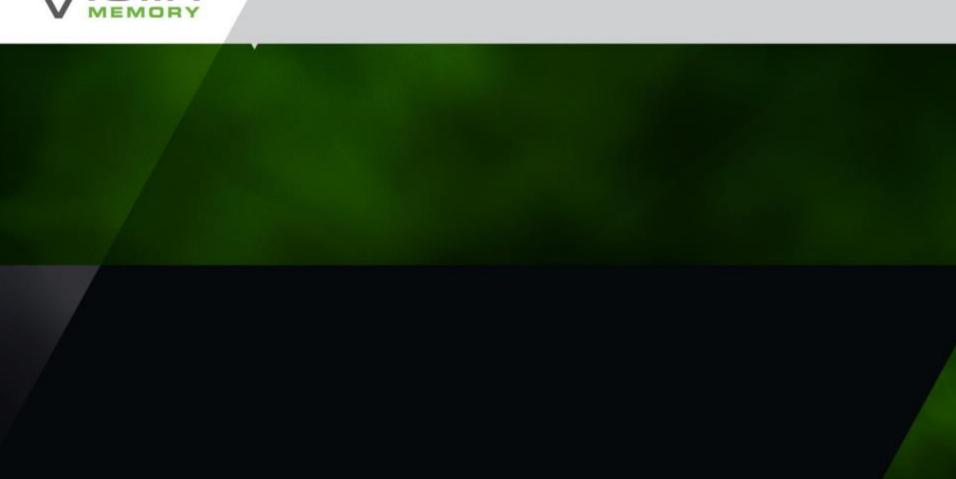
#### Violin Symphony

Predictive, Automated and Centralized control





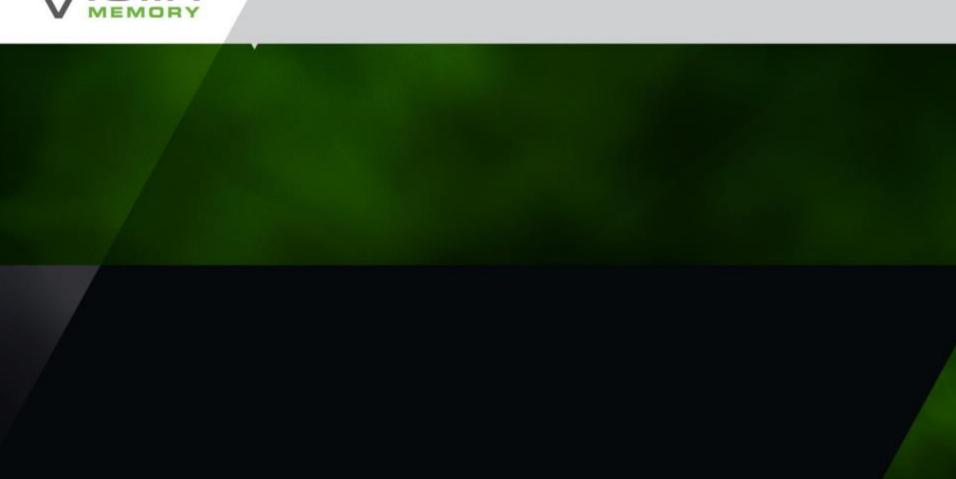




## New Platform for Business Applications







## The Road to the All-Silicon Data Center is paved with Flash

