



Flash Memory Summit



NETLIST

HybriDIMM™ Media Controller

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Netlist*

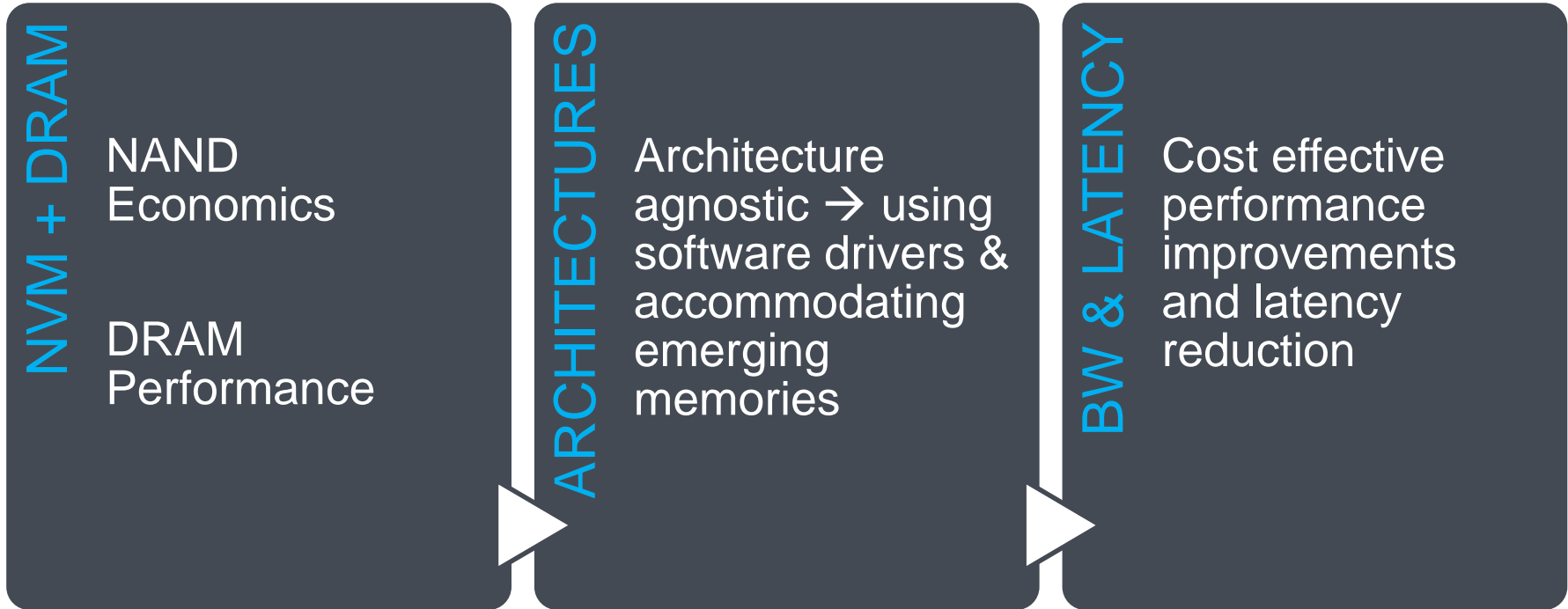


Memory Solution Space

- Cost effective 256GB-1TB+ capacities on the DRAM bus
 - Cost effective, High Bandwidth, Low latency
 - Use of Software drivers (no special HW protocol required)
- Architectural context that encompasses
 - Take advantage of large DRAM:NAND price ratio of ~50:1 per GB
 - Supports emerging memory technologies - RRAM, PCM, MRAM, NRAM, etc
- Significant progress in standardization
 - Competitive solutions continue to be single sourced



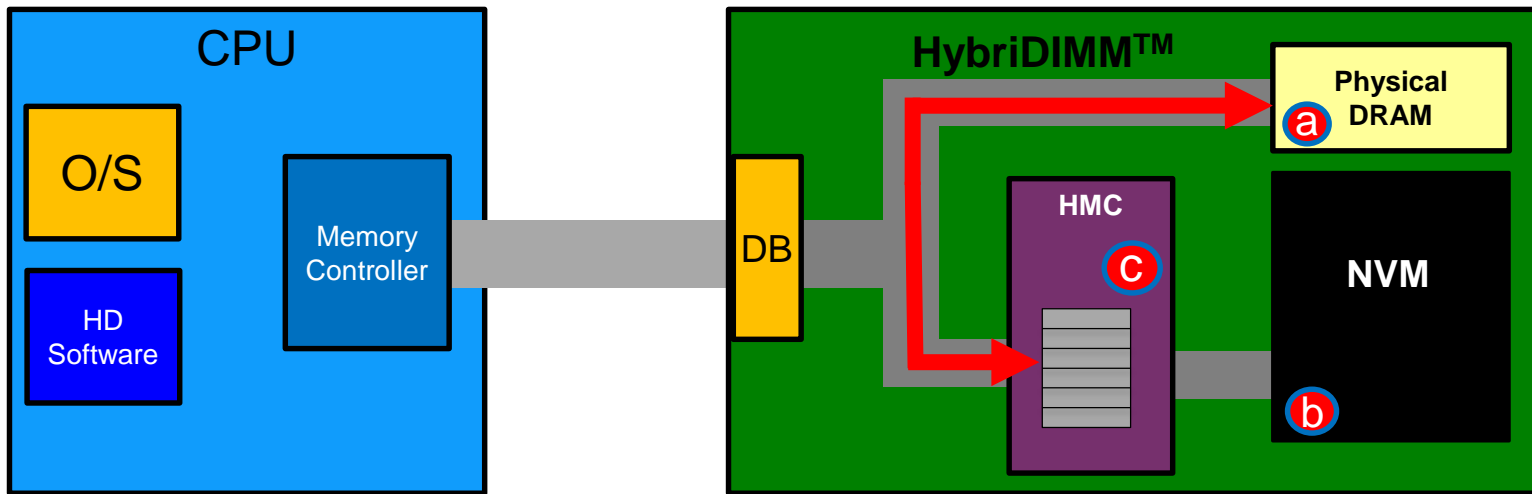
SCM - What is the ideal solution ?





HybriDIMM™ solution

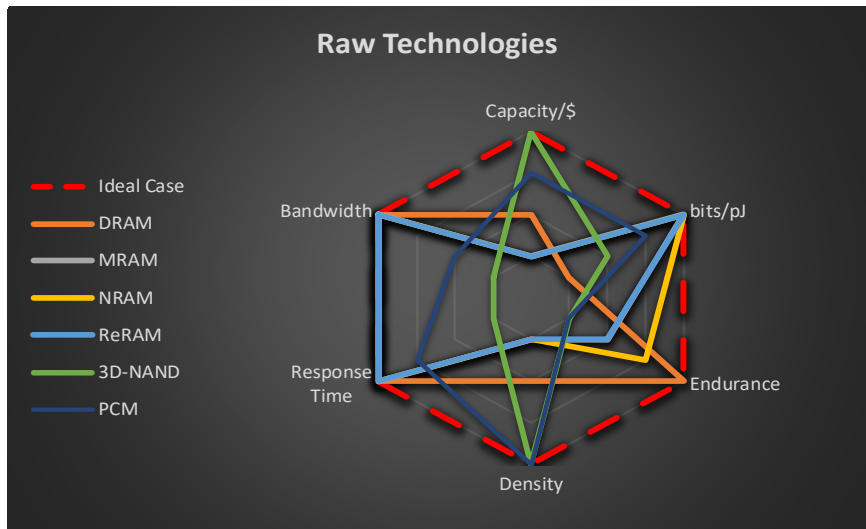
- **Memory and Storage on one physical DIMM**
 - Three HW elements: (a) DRAM, (b) NVM, and (c) HybriDIMM™ Media Controller (HMC)



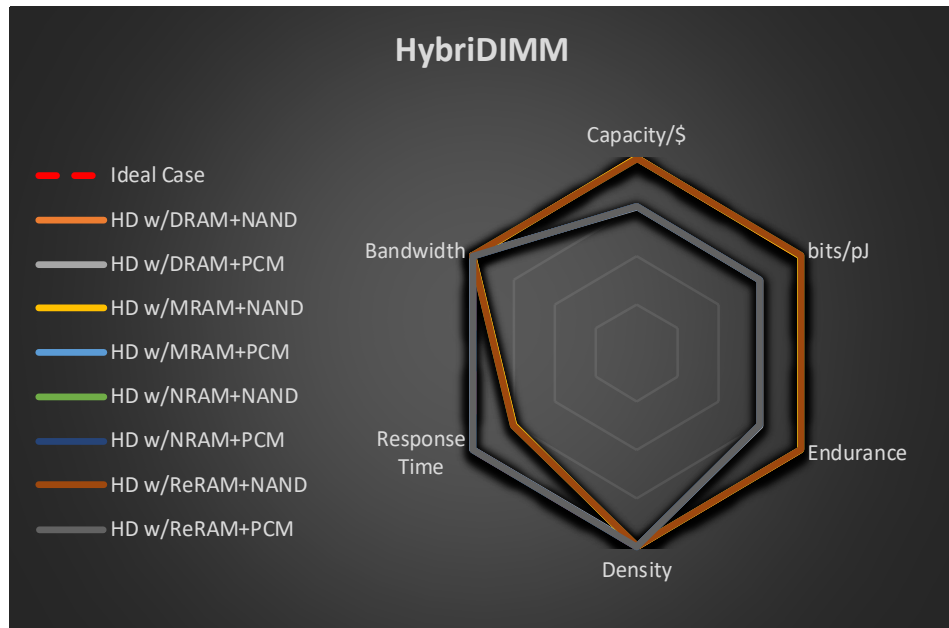
Significant progress on HybriDIMM™ ASIC



SCM: HybriDIMM™ Architectural Advantages



With their own idiosyncrasies & vol. ramps



HybriDIMM™ provides the architectural context to use multiple memory technologies as they mature



HybriDIMM™ Momentum Growing

■ Summary

1. Cost effective → takes advantage of growing DRAM:NAND price ratio
2. Standardization → not a single sourced solution
3. Software drivers → does not require special HW protocol



Working prototype !!



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Thank You!

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