Emerging Object/Active Storage Technologies Panel

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Questions to be Addressed

• What are OO/Active storage and how do they work?
• Why are they important?
  – How do they improve on existing solutions?
  – How do they compare to alternate approaches?
• What is the state of development and prognosis?
  – What's needed to make them successful
  – How will they affect already deployed technology
What are OO and Active Storage?

- Current storage devices are organized into low level block abstractions
- OO storage devices are organized into higher level abstractions such as segments, files, or data base records
  - Abstraction and device management details, including access control, are handled by intelligence in the devices
  - Information processing of the abstraction contents is, however, handled back at the client applications
- With Active storage, not only are higher level abstractions handled in the devices, but application processing algorithms can be moved to the storage devices
- Given the increased intelligence of OO or Active devices, higher level OO/Active applications can be developed taking advantage of the increased modularity and intelligence of the devices