MemVerge at ISC

Project Endless Memory

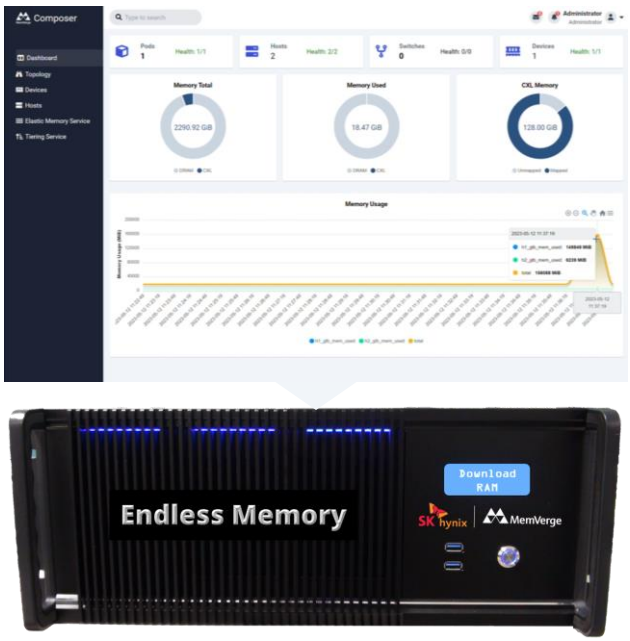
Memory Exhaustion: The Cause of OOM and Poor Performance

Memory exhaustion is a major problem that can cause Out-of-Memory crashes or poor performance due to swap usage, especially in clustered environments where memory usage is not uniform across nodes.

Project Endless Memory

To address this challenge, MemVerge has partnered with SK Hynix to create an "Endless Memory" solution. Endless Memory combines an Elastic Memory Service software from MemVerge and a Niagara Pooled Memory System from SK Hynix to allow hosts to dynamically allocate memory as needed, mitigating OOM errors and improving application performance.

Endless Memory represents an industry milestone because it features CXL memory pooling and tiering technologies running on real CXL memory pooling hardware from SK Hynix. The innovative solution incorporates technology that transforms the way data-intensive applications are managed and will provide a more seamless and efficient way to manage memory in clustered environments.



The Co-Engineered System

SK Hynix Niagara

- CXL Pooled Memory System

MemVerge Elastic Memory Service

- **Composer** - Globally optimize CXL memory pool allocation across a cluster.
- **Memory Machine** - A daemon that runs on each server to monitor memory usage in real time and report to Composer. On-line new memory allocated from the CXL memory pool and off-line memory to be released back to the pool.

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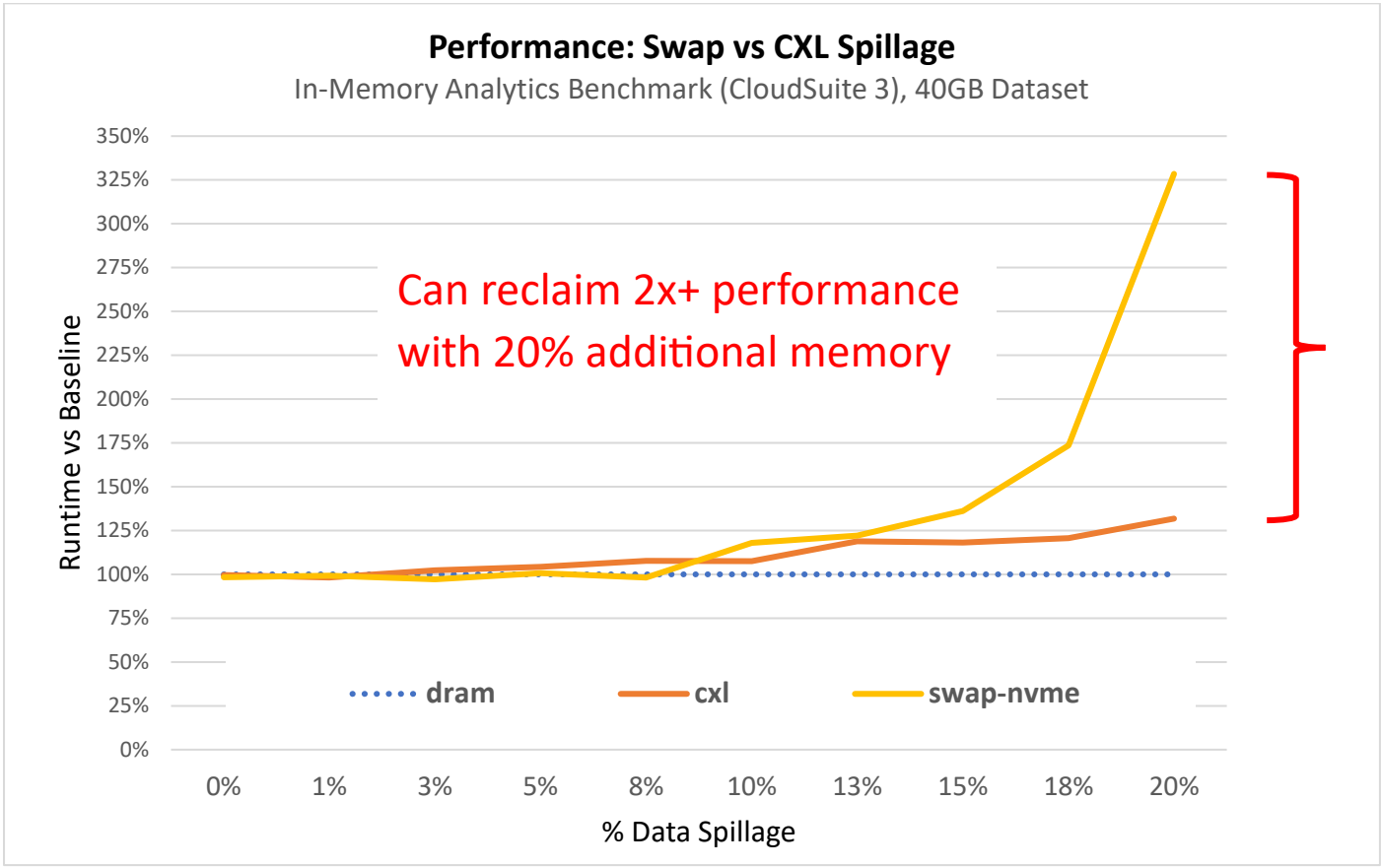
Demo System and Performance Result



Join the MemVerge CXL Early Adopter Program for Early Access to Endless Memory

Contact frank.berry@memverge to join the MemVerge CXL Early Adopter Program. After joining you will receive our CXL newsletter with information about early access to MemVerge developer tools, as well as alpha and beta products.

Or just scan the QR code on the right to Join Now.

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