MemQuest™ is an advanced compiler-based memory generator and optimizer. Use MemQuest to easily find and generate the optimum macro for your application across Novelics entire product line of breakthrough embedded memory IP.

MemQuest is a cloud-based memory compiler and optimization environment. There is no local software to support and maintain. Login with a web-browser using your existing Mentor Graphics Support Center ID.

MemQuest is a single platform and GUI for multiple memory compilers including the following advanced memory IPs:

- coolSRAM-1T
- coolSRAM-6T
- coolSRAM-8T
- coolROM
- coolREG-6T
- coolREG-8T
- coolROM
- coolCAM

**FEATURES:**

- **Flexible, Easy-to-Use GUI**
  - Minimize design cycles
  - Manage all memory IP from a single GUI
  - Easy to find the most optimal memory configuration based on area, speed, and power requirements
  - Select from a wide range of column mux and multi-bank memory configurations
  - Instantly generate and download datasheets and FE kits
  - Automatic GDSII generation from the cloud

- **Cloud-Based Compiler**
  - No local software to install
  - Reachable from any geographical location

- **Instances Individually Verified**
  - Full SPICE simulation for each compiled instance
  - Extensive verification on Mentor server farm
As an advanced project management tool for SoC/ASIC memory design, MemQuest provides a homepage for each customer project where they can organize and quickly view all the memory IP selected for each chip. A new memory is added to the project by first selecting the desired depth, width, and additional features and then choosing the optimal memory configuration from a table showing all available configurations. The table is sortable by area, speed, and power. Once a configuration is chosen, the corresponding datasheet can be immediately downloaded, and a front-end kit can be generated. The back-end kit is available as soon as the IP completes a comprehensive verification, which is performed on Mentor Graphics cloud servers using Mentor Graphics EDA verification tools along with PDK and technology files from leading-edge foundries.