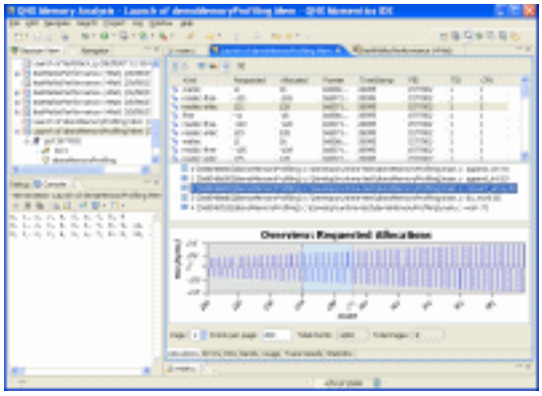
## Overview#

The QNX Momentics Memory Mnalysis tool allows developers to quickly pinpoint memory errors and leaks, and optimize memory usage.


Click to enlarge

## Features#

- Automatically detects the following runtime errors
  - buffer overflow
  - heap corruption
  - invalid deallocation
- Automatically detects explicit memory leaks
- Provides a snapshot of the objects allocated in the heap, and includes a full source navigable stack trace of the allocation
- Provides graphical charts for memory usage, and it includes dynamic history of memory usage for identifying trends and blocks distribution
- Provides unique information for memory usage optimization - the allocator overhead and bands usage

## Resources#

- Article: Memory Profiling using QNX Momentics IDE 4
- Wiki: Quick Way to Find Memory Leaks
- Whitepaper: Using Memory Analysis to Create Leaner, Faster, More Reliable Embedded Systems Feb 2007
- Webinar: Improve Embedded System Stability and Performance through Memory Analysis Tools
- Presentation: Improve Embedded System Stability and Performance through Memory Analysis Tools
- User Documentation: Finding Memory Errors