

Exploiting HTM for Improved C++ Smart Pointers

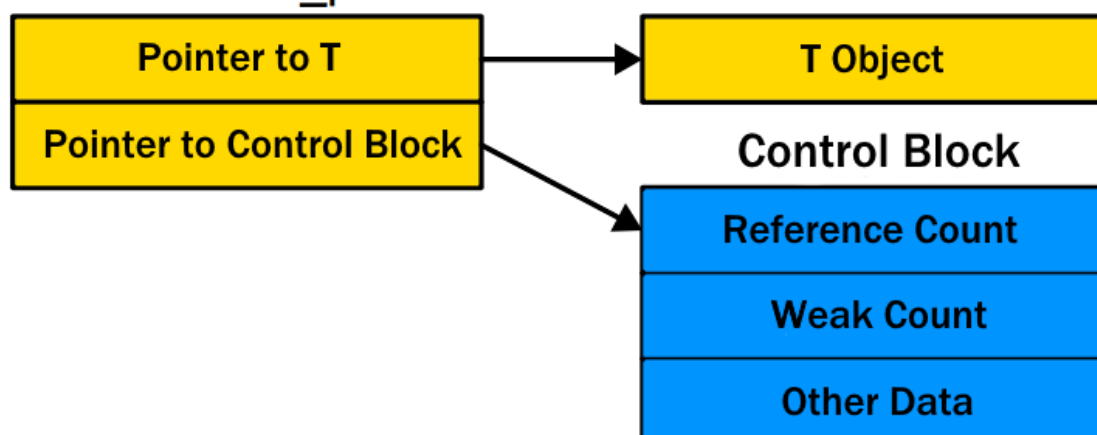
Scientific Seminar

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Location: Faculty of Computer Science, Iași
8 December, 12:00 - Room C308

The most popular programming languages, such as C++ or Java, have libraries and data structures designed to automatically address concurrency hazards in order to run on multiple threads. However, automatic concurrent memory management leads sometimes to noticeable overhead. We experiment with C++ smart pointers and their automatic memory-management technique based on reference counting. More precisely, we study how we can use hardware transactional memory (HTM) to avoid costly and sometimes unnecessary atomic operations. This talk presents details concerning the algorithm and the implementation of transactional smart pointers.

`std::shared_ptr<T>`



This event is part of:

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