SPARK TUNGSTEN



WHAT IS PROJECT TUNGSTEN

- Better Memory Management
- Cache Aware Computations
- Codegeneration



MEMORY MANAGEMENT

- Problem
 - JVM garbage collection 🖂
 - JVM memory overhead
- How It is solved
 - Unsafe memory ©
 - Better Memory Menagement
 - No GC overhead



CACHE AWARE COMPUTATIONS

- Spark waste lot of time waiting data being read from RAM
- Cache Friendly Data Structures and Algos



OTHER

- Code Gen Dynamically generate Bytecode for expressions
- Intermediate data in memory vs CPU registers
- Loop unrolling and SIMD compiler specific SIMD instructions

