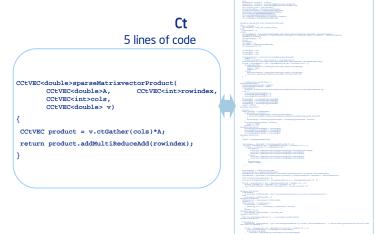
Building Tera-Scale Apps with Ct Productive & Scalable Multi-core Programming

Ct extends C/C++ by adding nested parallel data structures and operators

- Support different multi-core hardware through on-the-fly automatic parallelization
- Interface compatible with existing programming environments and APIs
- Simple high-performance parallel code Race-free programming Scalability SSE friendly

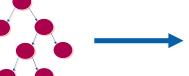


Nested Data Parallelism Race-Free Irregular Parallel Computation









Multi-core







C with OpenMP 172 lines of code

Key Ct Applications

Physics simulation **Image**

processing



Video

processing

Emerging Tera-scale Apps







Mining

Synthesis





