**Motivations**

❖ To fully utilize the capabilities of a multi-core computer system through parallelization.
❖ Helping domain scientists with optimizing their computational and data-intensive applications.
❖ Equip a parallelizing compiler with the ability to interact with the users, involving the user into the decisions that compilers struggle with.

**Goals**

❖ Addressing the key problems of Auto-parallelizers.
❖ Identifying key features of interactive parallelizers.
❖ Providing a learning tool to help users understand important program patterns and their parallelization.
❖ Advancing science by increasing the productivity of researchers who use CDI research.

**Developed Features**

- Customize parallelization options in an interactive menu-driven way.
- Inspect compiler analysis and transformation results to identify impediments to parallelization.
- Modify the code to improve analyses and transformations.
- Show speedup and efficiency gained through optimization.

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