

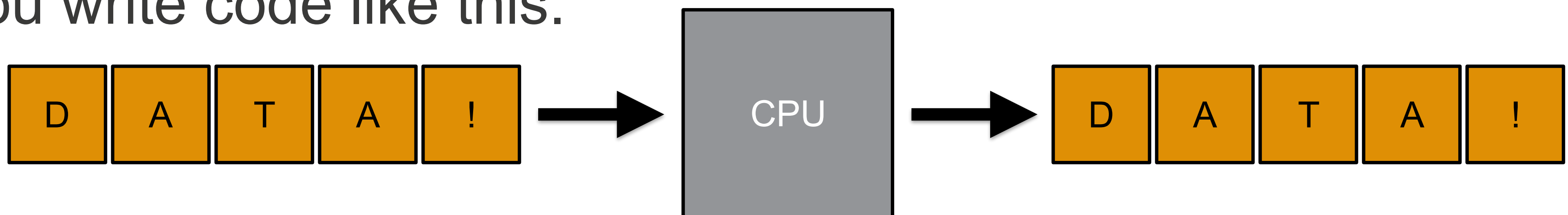


Your Code Sucks: Here's how to fix it.

Supervisor: Dr. David Boland

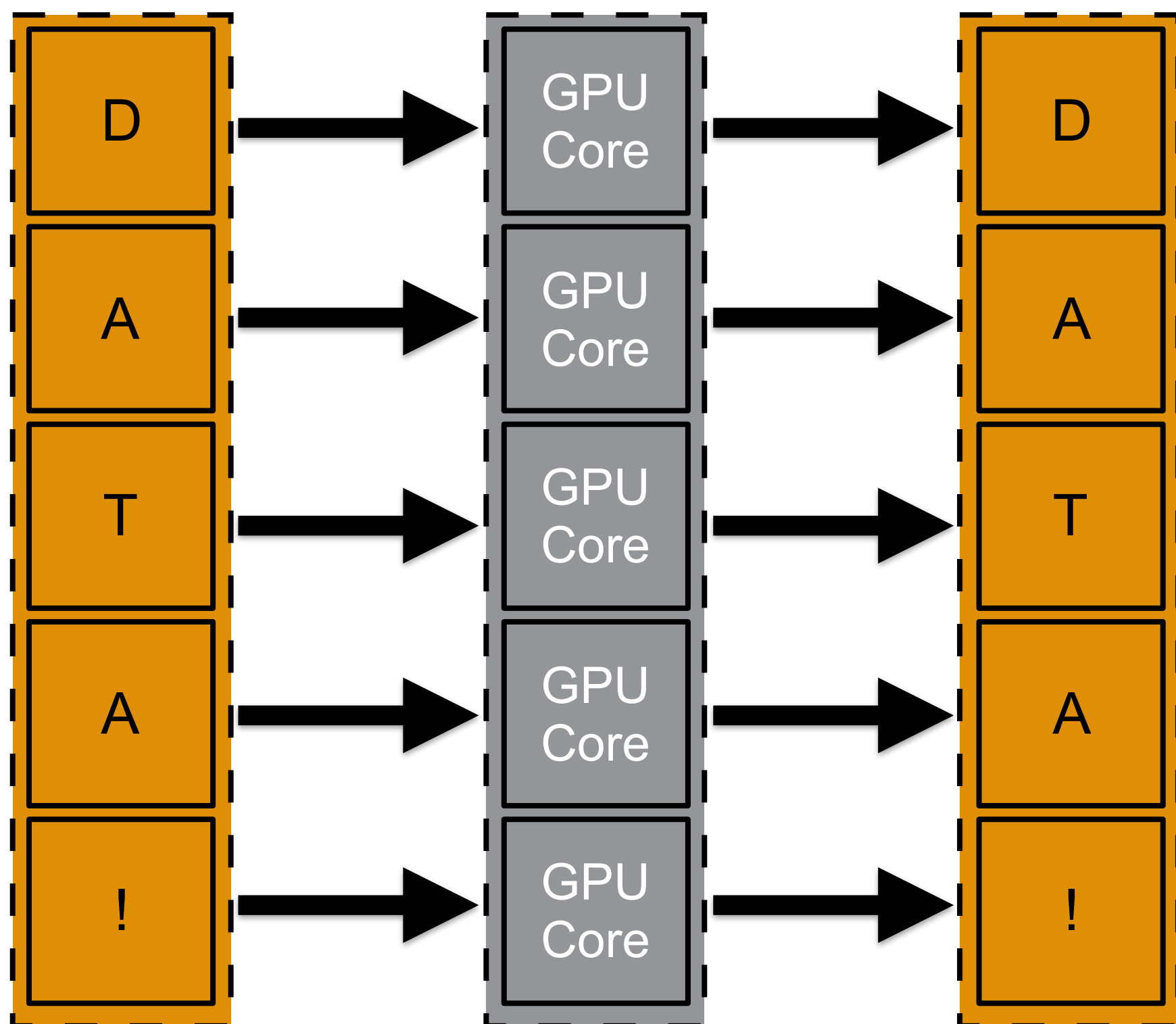
The Problem:

You write code like this.



The Solution:

Turn it into code like this.



The Project:

Fixing code bit by bit.

CAPA is a static code analysis tool for identifying potential highly parallel algorithm implementations within your C codebase, that may be re-implemented on GPU hardware to provide a significant speed boost.

Interfacing with a benchmarking suite written for this project which measures the performance of Host vs Device implementations of a variety of algorithms from the publicly available Thrust¹ and Eigen² libraries; CAPA is able to make recommendations about which part of your code should provide the largest benefit of being refactored. CAPA is all about finding the low hanging fruit.

Why go Parallel?

