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The Compiler Design Handbook: Optimizations and Machine Code Generation. The Compiler Design Handbook. : Y.N. Srikant, Priti Shankar. CRC Press, Sep 25, 2002 - Computers - 928 pages. 2 Reviews. The...

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## **CS 738: Advanced Compiler Optimizations - GitHub Pages**

Compiler optimization is generally implemented using a sequence of optimizing transformations, algorithms which take a program and transform it to produce a semantically equivalent output program that uses fewer resources and/or executes faster. It has been shown that some code optimization problems are NP-complete, or even undecidable.

## **Optimizing compiler - Wikipedia**

In computer science, loop fission (or loop distribution) is a

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compiler optimization in which a loop is broken into multiple loops over the same index range with each taking only a part of the original loop's body. The goal is to break down a large loop body into smaller ones to achieve better utilization of locality of reference.

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