

SCTP Sendbuffer Advertising

CS4089 Project
Midterm Evaluation

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Outline

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Introduction

- ▶ Compiler optimization:
 - ▶ the compilation phase that deals with the generation of better code (code that runs faster and/or takes less space)
- ▶ Program analysis:
 - ▶ to collect the information required for doing optimizations.
- ▶ Constant Propagation Optimization:
 - ▶ replaces the use of a variable by a constant, if it can be inferred that every definition of the variable that reaches this use assigns the variable the same constant value.

Problem Statement

- ▶ to do the Constant Propagation optimization in a program in three address code.
 - ▶ requires an analysis to compute the set of variable definitions at every point in the program

Literature Survey

- ▶ The fundamentals of compiler optimization and data-flow analysis are presented by Muchnik [1].
- ▶ Gulwani and Necula [2] present different techniques for computing equivalent expressions.

Work Done

- ▶ Completed a part of the planned literature survey
- ▶ The data-flow equations have been formulated

Future Work

- ▶ Complete the literature survey
- ▶ Write the data-flow analysis algorithm
- ▶ Study the tools required for implementation

References I

- [1] L. Ong and J. Yoakum. *An Introduction to the Stream Control Transmission Protocol (SCTP)*. RFC 3286. RFC Editor, May 2002, pp. 1–10. URL:
<http://www.rfc-editor.org/rfc/rfc3286.txt>.
- [2] R. Stewart. *Stream Control Transmission Protocol*. RFC 4960. RFC Editor, Sept. 2007, pp. 1–152. URL:
<http://www.rfc-editor.org/rfc/rfc4960.txt>.