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Data Flow Analysis Schema • Build a flow graph (nodes = basic blocks, edges = control flow) • Set up a set of equations between  $in[b]$  and  $out[b]$  for

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all basic blocks b -Effect of code in basic block:

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Dataflow analysis is usually performed on the program's control-flow graph (CFG); the goal is to associate with each program component (each node of the

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CFG) information that is guaranteed to hold at that point on all executions.

Examples of constant propagation and live-variable analysis

## **DATAFLOW ANALYSIS**

Data Flow Analysis: Theory and Practice.

CRC Press (Taylor and Francis Group).

2009. Apart from the above book, some

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basis for a CS approach that requires system use data and is typically employed to understand workflow using a workflow management system<sup>2</sup>. An example of a method based on the theory of petri-nets is process mining<sup>3</sup>. Process mining uses system log file data to construct event-based depictions of processes ...

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## **Program flow analysis : theory and applications (Book ...**

the data-flow sets  $genC(B)$  and  $killC(B)$  can be computed easily, the definitions of  $genC(B)$  and  $killC(B)$  essentially deals with graph theory and will not detect copy statements that are never hit (= evaluated), so we may apply the

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following precautionary principles.

## **Data-flow analysis: copy propagation.**

Data flow analysis in Compiler It is the analysis of flow of data in control flow graph, i.e., the analysis that determines the information regarding the definition and use of data in program. With the

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help of this analysis optimization can be done.

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