

Static Detection of Data Races in Interrupt-Driven Software Using Reduced Inter-Procedural Control Flow Graphs

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Problem of Data Races

- Not reconstructable
- bar.
- baz.

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 - Basics of Data Race
 - Detection of Data Race
- 2 Control Flow Graph
- 3 Evaluating the Output

Interrupt Driven Software

- foo.
- bar.
- baz.

What are Shared Resources?

What are Data Races?

Example of an Data Race

Static Detection of Data Races

How to detect Data Races

Why do we need Control Flow Graphs?

What are Inter-Procedural CFG's?

Reducing the CFG

Interrupt Status

False Positives

Solved Problems

Future Work

Summary