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

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## Abstract



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# 1 Introduction



## 2 Background

Recherche+Auschreiben 1,5 Wochen -Control Flow Graphs –reduced interprocedural  
control flow graph -Interrupts and Interrupt Handler



## 3 Race Conditions Detection

Recherche und Verständnis 0,5 Woche



## 4 Implementation

3,5 Wochen





## 5 Evaluation

1,5 Woche



## 6 Conclusion

Indroduction+Conclusion und Allgemeine Überarbeitung 0,5 Woche 1 Wochen Korrekturlesen und Einarbeitung =9 Wochen bei Vollarbeitszeit an BE



# Bibliography

Lightweight Data Race Detection for Production by Swarnendu Biswas, Man Cao, Minjia Zhang, Michael D. Bond, Benjamin P. Wood

A Deployable Sampling Strategy for Data Race Detection by Yan Cai<sup>1</sup>, Jian Zhang, Lingwei Cao, and Jian Liu