

Bachelor Thesis

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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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2 Background

Recherche + Auschreiben~1,5~Wochen~-Controll~Flow~Graphs~-reduced~interprocedural~controll~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 Cai1, Jian Zhang, Lingwei Cao, and Jian Liu