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Automated and Reliable Resource Release in Device Drivers Based on Dynamic Analysis

Jia-Ju Bai , Yu-Ping Wang , Shi-Min Hu

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Highlights

- Resource management in drivers is not reliable enough according to our study on Linux patches.
- Resource-usage analyses in device drivers are performed.
- AutoRR is proposed to automatically and reliably release resources in device drivers.
- AutoRR has successfully and safely fixed 40 detected bugs in 12 drivers with a low overhead.

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