

Accepted Manuscript

Conservative Claims for the Probability of Perfection of a
Software-based System Using Operational Experience of Previous
Similar Systems

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PII: S0951-8320(17)30578-1
DOI: [10.1016/j.ress.2018.03.032](https://doi.org/10.1016/j.ress.2018.03.032)
Reference: RESS 6116



To appear in: *Reliability Engineering and System Safety*

Received date: 22 May 2017
Revised date: 26 March 2018
Accepted date: 29 March 2018

Please cite this article as: Xingyu Zhao , Bev Littlewood , Andrey Povyakalo , Lorenzo Strigini , David Wright , Conservative Claims for the Probability of Perfection of a Software-based System Using Operational Experience of Previous Similar Systems, *Reliability Engineering and System Safety* (2018), doi: [10.1016/j.ress.2018.03.032](https://doi.org/10.1016/j.ress.2018.03.032)

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Highlights

- New, rigorous formalism for perfection claims using evidence from similar products.
- Novel Bayesian approach requires minimal prior information from assessors.
- Conservative but useful results, based on *very restricted* prior beliefs.
- Results are as conservative as necessary, but not more than that.
- Results are superior to – and a warning against – informal engineering judgment.

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