

An Example of a Paper with a Rather Large Title-to-Content Ratio

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Yet S. Else

This is a sentence in the abstract. This is another sentence in the abstract. This is yet another sentence in the abstract. This is the final sentence in the abstract.

1 Introduction

Filesystems provide a convenient interface for the named storage of data, and as such are ubiquitous in application programs. Filesystem bugs expose users to the risks of data breach, corruption, loss; thus, verifying their correctness is essential. In this work, we present an approach towards constructing executable specifications of existing filesystems and verifying their functional properties in a theorem proving environment. We detail an application of this approach to the FAT32 filesystem.

We also detail the methodology used to build up this type of executable specification through a series of models which incrementally add features of the target filesystem. This methodology has the benefit of allowing the verification effort to start from simple models which encapsulate features common to many filesystems and are thus suitable for re-use.

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References

- [1] Stack Exchange: gernot answering effeffe (2016): *Centering issues with multiple authors with the same affiliation, EPTCS format*. Available at <http://tex.stackexchange.com/q/344794/63917>.
- [2] R.J. van Glabbeek (2010): *The EPTCS bibliography style*. Available at <http://biblio.eptcs.org>.
- [3] E.D.I. Thor & E. di Thor, editors (1987): *Title B1: A Book with editors*, second edition. *Series 21*, Publisher, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [4] E.D.I. Thor & E. di Thor, editors (1987): *Title B2: An Inbook with editors*, second edition, type (of chapter) II, pp. 1–999. *Series 443*, Publisher, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [5] E.D.I. Thor & E. di Thor, editors (1987): *Title B3: A Proceedings*. *Series 443*, Organization, Publisher, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [6] A. Ut, H. Or & Co Author (1987): *Title A: An Article*. *Jounal 443(21):4*, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [7] A. Ut, H. Or & Co Author (1987): *Title B1: A Book with authors*, second edition. *Series 443*, Publisher, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [8] A. Ut, H. Or & Co Author (1987): *Title B2: An Inbook with authors*, second edition, type (of chapter) II, pp. 1–999. *Series 443*, Publisher, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [9] A. Ut, H. Or & Co Author (1987): *Title C1: An Inproceedings*. In E.D.I. Thor & E. di Thor, editors: *Booktitle*, *Series 443*, Organization, Publisher, Address, pp. 1–999, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [10] A. Ut, H. Or & Co Author (1987): *Title C2: An Incollection*. In E.D.I. Thor & E. di Thor, editors: *Booktitle*, second edition, type II, *Series 443*, Publisher, Address, pp. 1–999, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.

- [11] A. Ut, H. Or & Co Author (1987): *Title R: A Techreport*. Type (of report) 21, Institution, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [12] A. Ut, H. Or & Co Author (1987): *Title R1: A Techreport*. Technical Report 21, Institution, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [13] A. Ut, H. Or & Co Author (1987): *Title R2: A PhDthesis*. Ph.D. thesis, School, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [14] A. Ut, H. Or & Co Author (1987): *Title R3: A Masterthesis*. Master's thesis, School, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [15] A. Ut, H. Or & Co Author (1987): *Title R4: A Manual*, second edition. Organization, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [16] A. Ut, H. Or & Co Author (1987): *Title U: A Booklet*. Howpublished, Address, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [17] A. Ut, H. Or & Co Author (1987): *Title U: A Misc*. Howpublished, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.
- [18] A. Ut, H. Or & Co Author (1987): *Title U: An Unpublished*, doi:10.4204/EPTCS. Available at <http://arxiv.org/abs/1009.3306>. Note.