

- MultiPrecisionArrays.jl: A Julia package for iterative
- ₂ refinement
- 3 C. T. Kelley 10
- 4 North Carolina State University, Raleigh NC, USA

DOI: 10.xxxxx/draft

Software

- Review 🗗
- Repository 🗗
- Archive ♂

Summary

What is iterative refinement?

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Statement of need

Who cares?

Mathematics

Ax = b

Test citations

Kelley (2022b) is a book. Kelley (2022a) is a paper.

- Kelley (2023b) is the newest paper
- 14 The package lives here Kelley (2023a)

References

- Kelley, C. T. (2022a). Newton's method in mixed precision. SIAM Review, 64, 191–211.
 https://doi.org/10.1137/20M1342902
- Kelley, C. T. (2022b). Solving Nonlinear Equations with Iterative Methods: Solvers and Examples in Julia. SIAM. ISBN: 978-1-611977-26-4
- Kelley, C. T. (2023a). *MultiPrecisionArrays.jl*. https://github.com/ctkelley/MultiPrecisionArrays.jl. https://doi.org/10.5281/zenodo.7521427
- Kelley, C. T. (2023b). Newton's method in three precisions. https://arxiv.org/abs/2307.16051