

Acta Numerica (2021), pp. 1–69
doi:10.1017/S09624929XXXXXXXXXX

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Printed in the United Kingdom

Mixed precision algorithms in numerical linear algebra

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- Did you have trouble with floating-point precision related problems?
- Did you experience trouble to reach desired precision in computation?
- What was the reason? How did you handle them?
- Is the solvers or other algorithms you use numerically stable?
- Can you use mixed precision somewhere in your code?