

Peer Review

Review of: "Evaluation of Bfloat16, Posit, and Takum Arithmetics in Sparse Linear Solvers"

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I appreciate the overall document. It is compact but contains what is expected: a description of the different arithmetics, a description of the experiments, and the results.

It is well written and clear.

Actually, I consider the document already fine for publication, and I have only minor remarks. The authors talk about “performance,” but I suppose one should be careful that this term is not misunderstood, as it has nothing to do with the execution time. Well, we expect a correlation with the results shown in the paper, but the experiments emulate hardware that would support these arithmetics, if I am correct.

It is unclear to me why only the matrices with “more than 10^4 non-zero entries” are kept. I suppose it is because larger matrices might not be well adapted for low-precision arithmetics, but maybe the authors could clarify this point.

Declarations

Potential competing interests: No potential competing interests to declare.