

Interactive comment on “Bit Grooming: Statistically accurate precision-preserving quantization with compression, evaluated in the netCDF Operators (NCO, v4.4.8+)” by Charles S. Zender

Anonymous Referee #2

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The core contribution of this paper appears to be the level of compression achieved while retaining a high degree of dynamic range, as well as statistical properties of resulting data.

This contribution, compared to other methods, is only clearly articulated in the sentence spanning pages 9-11.

Tables 4-7, with some interpretation, are good at conveying the relative resultant size after applying the algorithms examined. This may be a good place to bring together, and highlight, the interplay between the data size and precision achieved at that size.

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The number of significant digits is already presented for the Bit Groomer methods. Could this be added for the other methods, either in theory or on a particular data set? Additionally can the dynamic range, or number of bits remaining in the mantissa?

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