Comment on gmd-2021-200

Thomas Poulet (Editor)

Editor comment on "An explicit GPU-based material point method solver for elastoplastic problems (ep2-3De v1.0)" by Emmanuel Wyser et al., Geosci. Model Dev. Discuss., https://doi.org/10.5194/gmd-2021-200-EC1, 2021

Dear authors,

Thank you very much for this revised version of the manuscript, which addresses appropriately most comments of the reviewers. As for the remark about the length of the paper, I agree that the description of the material point method is helpful and justifies a slightly longer manuscript. In this regard, it is unfortunate that the revised version is even longer, yet I found the added content regarding the new multi-GPU implementation to be well worth the extra pages. Note however that the new content now requires some more peer-reviewing.

I would also like to point out, at the next opportunity, that any request/question/comment from the reviewers should be addressed in the manuscript, even though this can be done succinctly with more justifications or details provided in the "response to reviewers" documents. For instance, reply #1 for reviewer #1 should at least appear as a note. Similarly, reply #2 for reviewer #2 could probably be better integrated in the text as ("B-bar" without a reference, "closer" than what?...).

Best regards,

Thomas Poulet.