Validating the Numerical Accuracy of Critical Systems A Case Study with Spoat and Space Launcher Flight Software

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(x+1)-(x-1) = 2



x = 1125899973951488.0 → 134217728.000000x = 1125899973951487.0 → 0.000000

This is due to the accuracy of floating number



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Is the accuracy of floating number an issue on a space product ?

(unfortunately) YES !

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Come to see our poster! **Abstract interpretation**



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