How to calculate the accuracy of one bounding box with respect to another?

time: 00:00:00.414393
accuracy: 0.952602
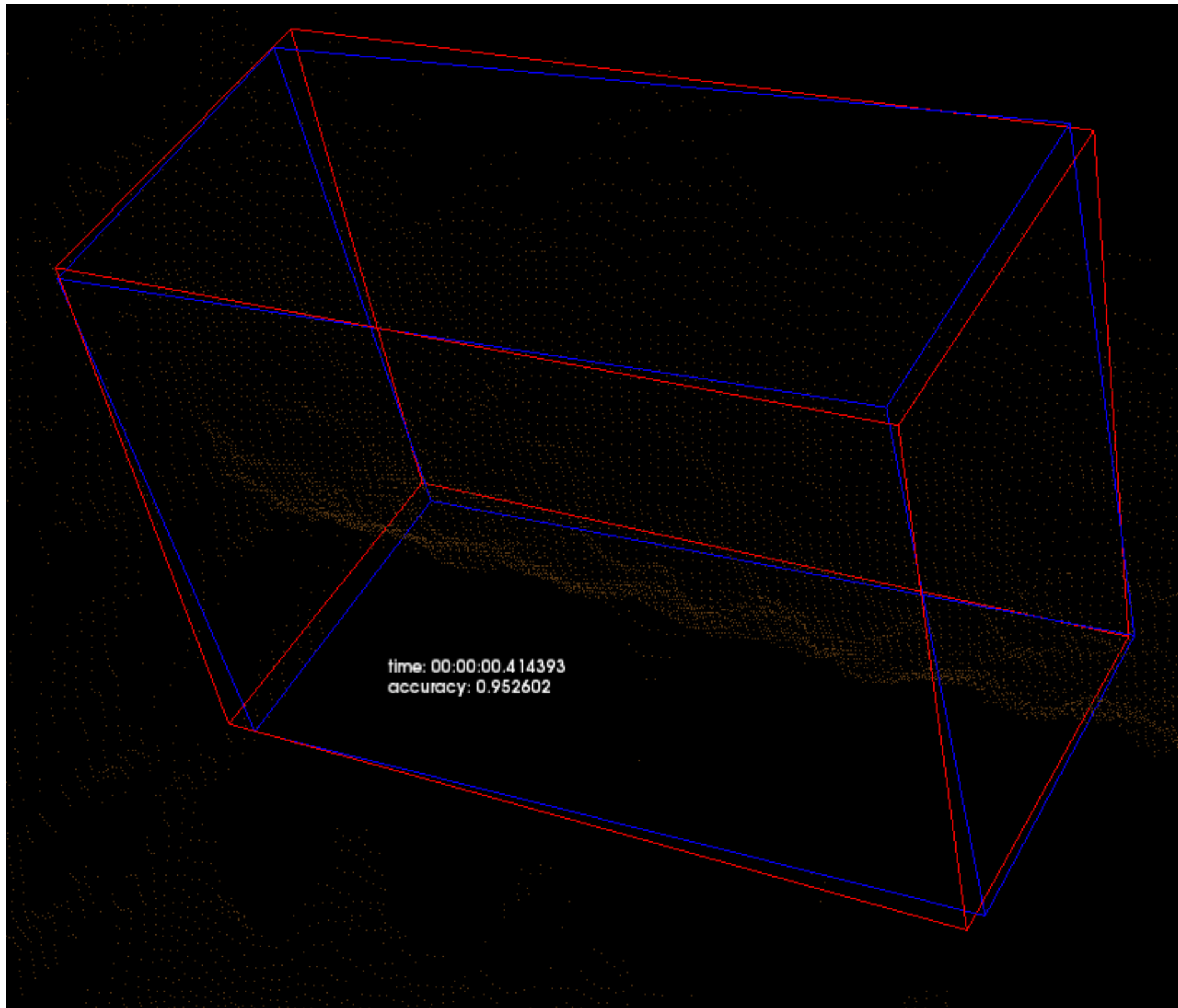
Accuracy Revised

accuracy = $\sqrt[8]{\prod_{i=1}^{8} 2^{-sd_i}}$

eight corners of the cube

where $d_i = \sqrt{\left(x_{1_i} - x_{2_i}\right)^2 + \left(y_{1_i} - y_{2_i}\right)^2 + \left(z_{1_i} - z_{2_i}\right)^2}$

and *s* is some appropriately chosen scale factor. In our case, *s* = 2, meaning the accuracy halves with every 2 cm of distance.

<u>In other words</u>: take the geometric mean of the accuracy of each corner, where the accuracy of a corner is proportional to the decaying exponential of the distance from its corresponding corner in the other bounding box.