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Title: On Baker's explicit *abc*-conjecture

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We derived from Baker's explicit *abc*-conjecture that $a+b=c$, where a , b and c are relatively prime positive integers, implies that $c < N^{1.72}$ for $N \geq 1$ and $c < 32N^{1.6}$ for $N \geq 1$. This sharpens an estimate of Laishram and Shorey. We also show that it implies $c < \frac{6}{5}N^{1+G(N)}$ for $N \geq 3$, and $c < \frac{6}{5}N^{1+G_1(N)}$ for $N \geq 297856$, where $G(N)$ and $G_1(N)$ are explicitly given positive valued decreasing functions of N tending to zero as N tends to infinity. Finally, we give applications of our estimates on triples of consecutive powerful integers and generalized Fermat equation.

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