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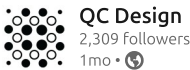
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You've probably heard the magic number—99% fidelity—for fault-tolerant quantum computing.

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- ➡The origin of 99% as a rule of thumb
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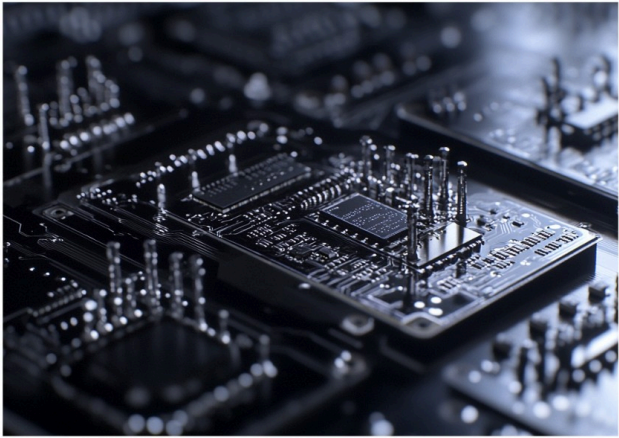
We also explore how Plaquette simplifies the challenging task of calculating fault-tolerance thresholds across different architectures and error models.


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# 99% gate fidelity

Is that all we need? Or is there more to the story?














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Aditya Yadav · 2nd

Inventor & Scientist | Quantum Computing, AI, HPC | Futurist

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Start with 1.0 and multiply it by 0.99 for every gate you want to execute. Within 50-100 gates you will end up with 0.00000001 and that will be the probability of your successfully getting the right answer. Production grade quantum computers require 15-50 decimal places of accuracy to execute billions of gates. Let that sink in. We know because we are the only company in the world ...more




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**Aditya Yadav** Thanks for your comment. It's a formidable challenge for sure, and we're very excited to see as many companies take it on as possible. Wishing you guys the best success!!

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