



Flash Memory Summit

Top Ten Things You Need to Know About Flash Memory, that is

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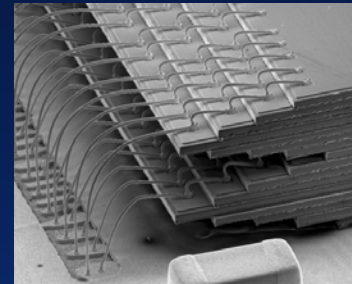
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How About Two Things?

- Where we're going
 - Denser designs – $> \text{Gb/cm}^2$
 - More levels for 3D, QLC, minor litho shrinks for MLC/TLC 3D
 - Cheaper cost to manufacture per GB
 - Can we get to 5 cents/GB (\$50/TB) ? I think so
- Where we're not going
 - Faster designs
 - In fact just the opposite (especially tProg)
 - More reliable designs
 - Hardly anyone willing to pay the price – burden on controllers

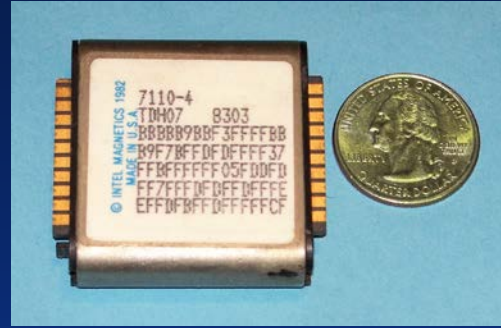




How About One More Thing?

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- Persistent Memory
 - No, not that kind →



- This kind →



- PM fundamentally changes computing



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Oh, and maybe a NOR renaissance?

That's All Folks