Why is redis so fast?

ALEX XU

MAR 2, 2022
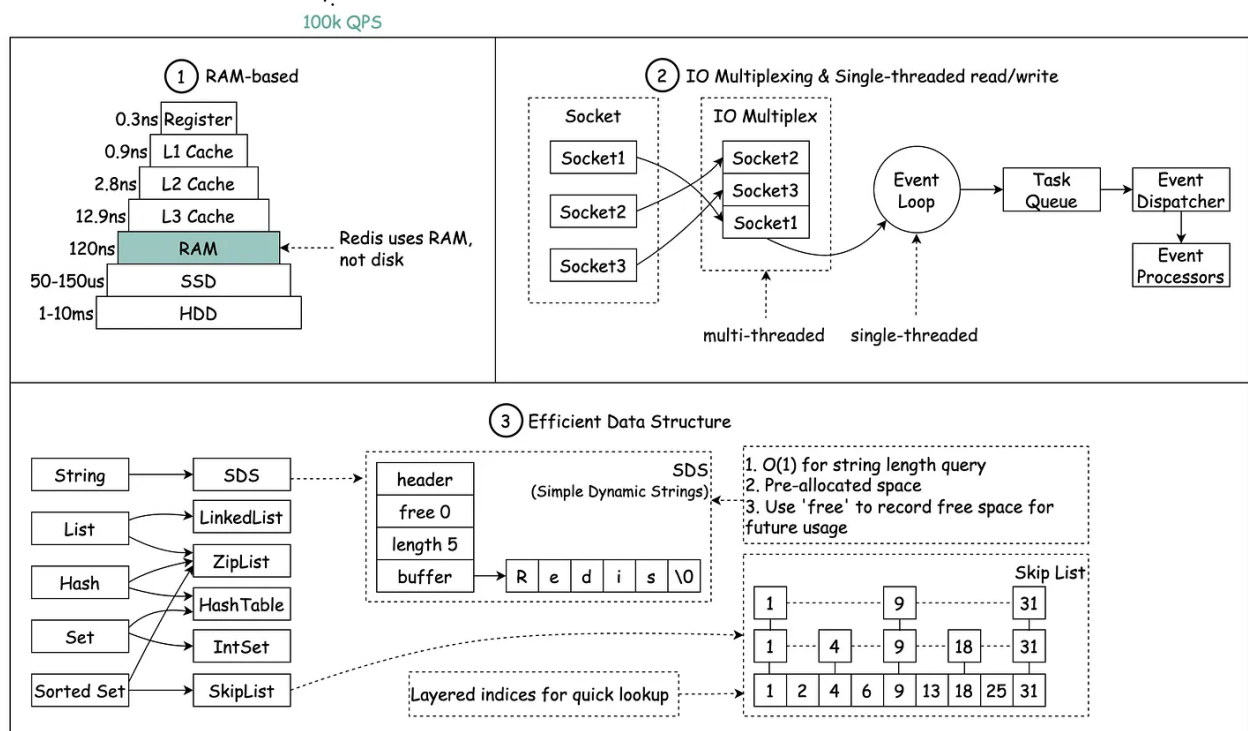
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Why is **Redis** so **fast**? There are 3 main reasons as shown in the diagram below.

1. Redis is a RAM-based database. RAM access is at least 1000 times faster than random disk access.

2. Redis leverages IO multiplexing and single-threaded execution loop for execution efficiency.

3. Redis leverages several efficient lower-level data structures.

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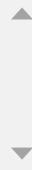SDI-vol2: https://amzn.to/37ZisW9

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