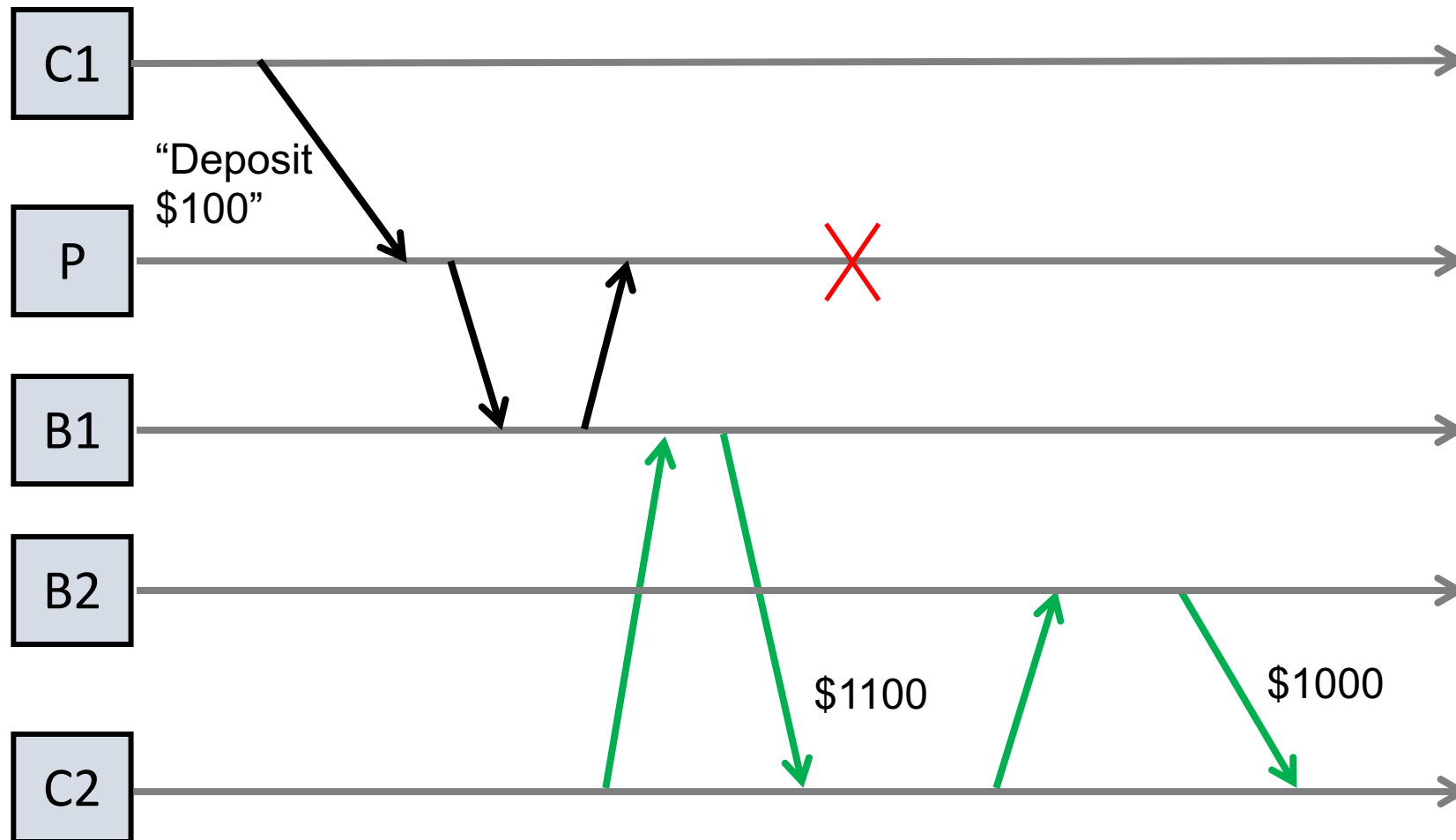


Discussion 04

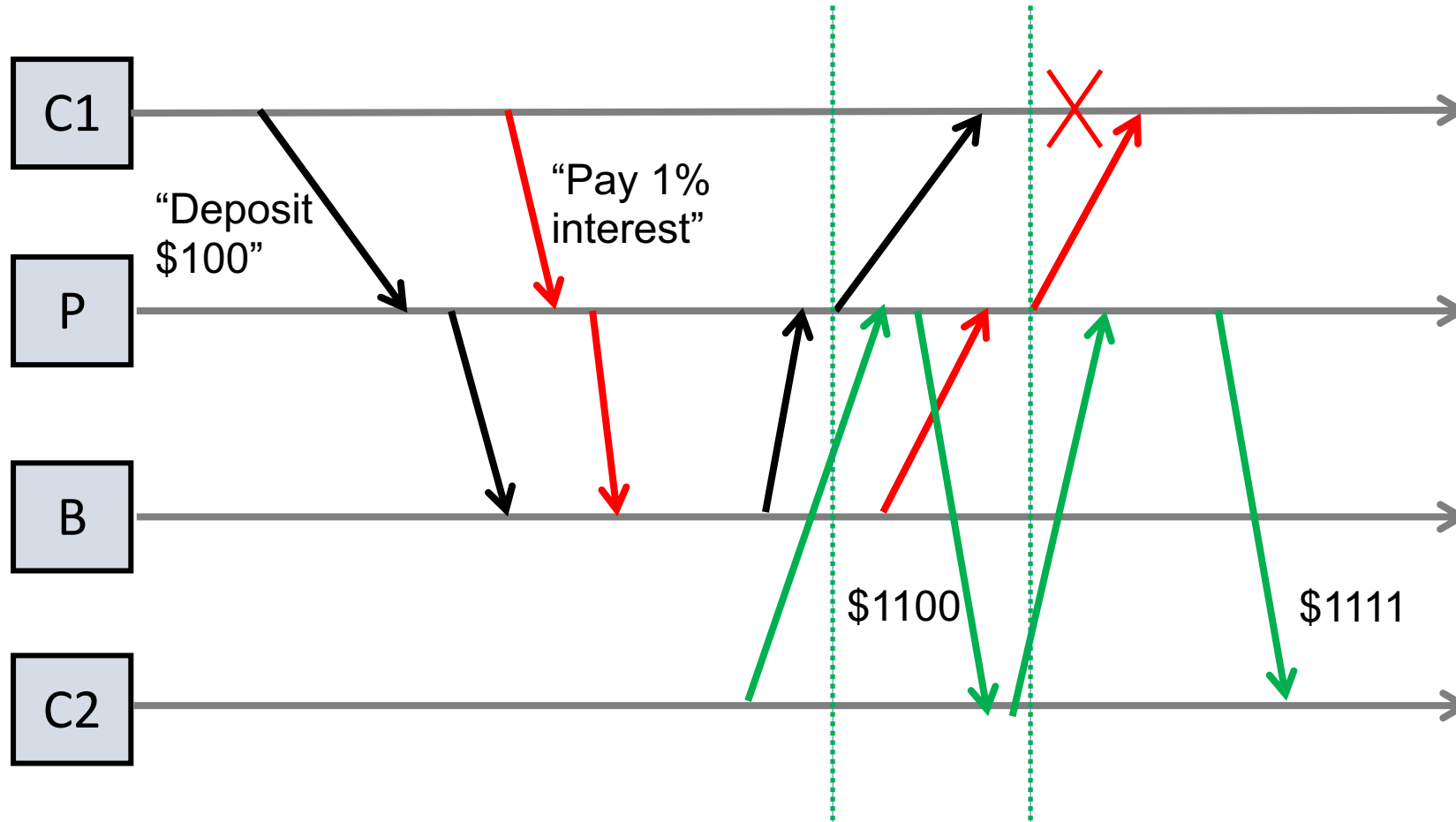
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Section 2B

Example 1: Handling Reads at backup



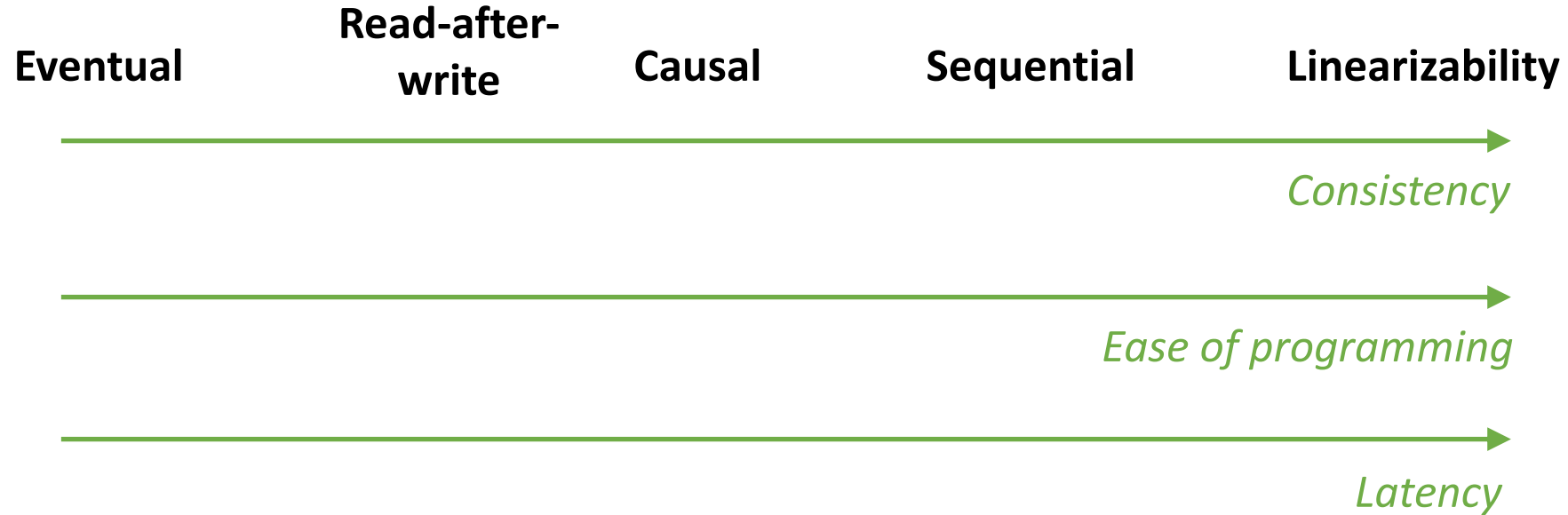
Reads relative to Writes



Linearizability

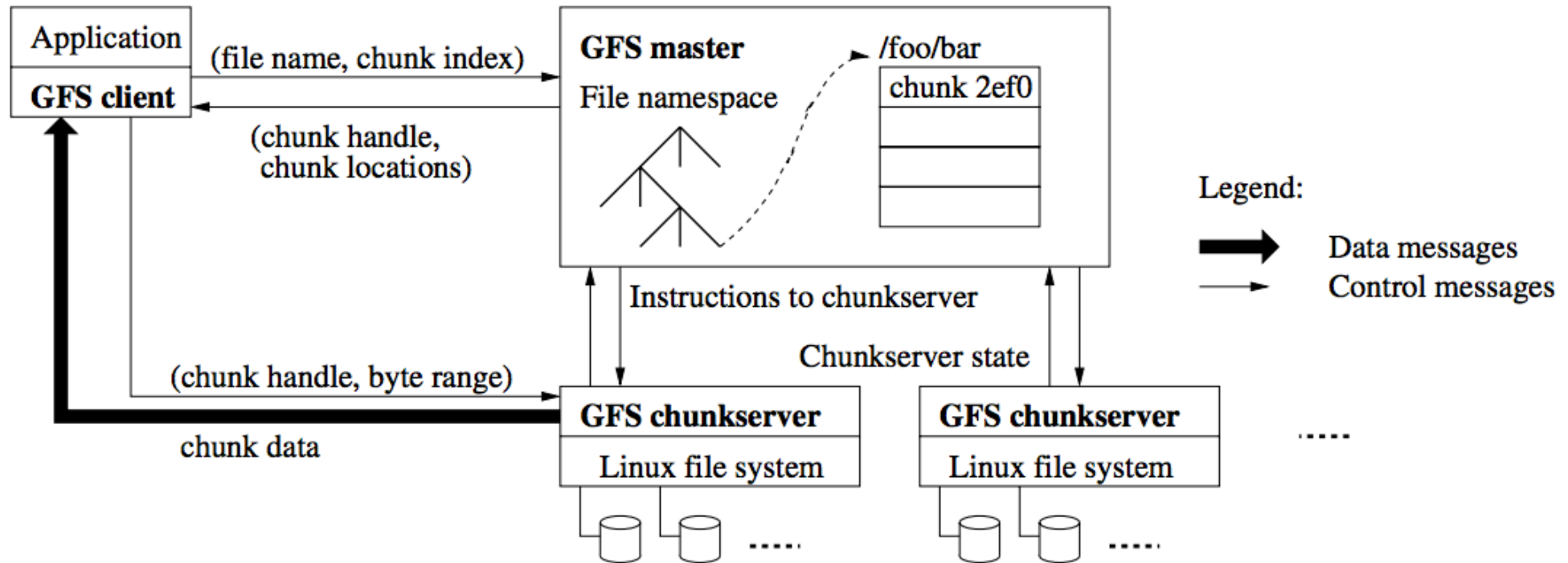
- Properties
 - Total ordering of writes
 - Read returns last completed write
- Single copy semantics
 - Externally visible effects of writes and reads are equivalent to if there existed a single copy
 - Users oblivious to replication

Consistency Spectrum



No silver bullet!

GFS: overview



GFS: data flow vs. control flow

