



INTERCONNECT SOLUTIONS

DRBD Performance Comparison

Dolphin Express vs. Ethernet

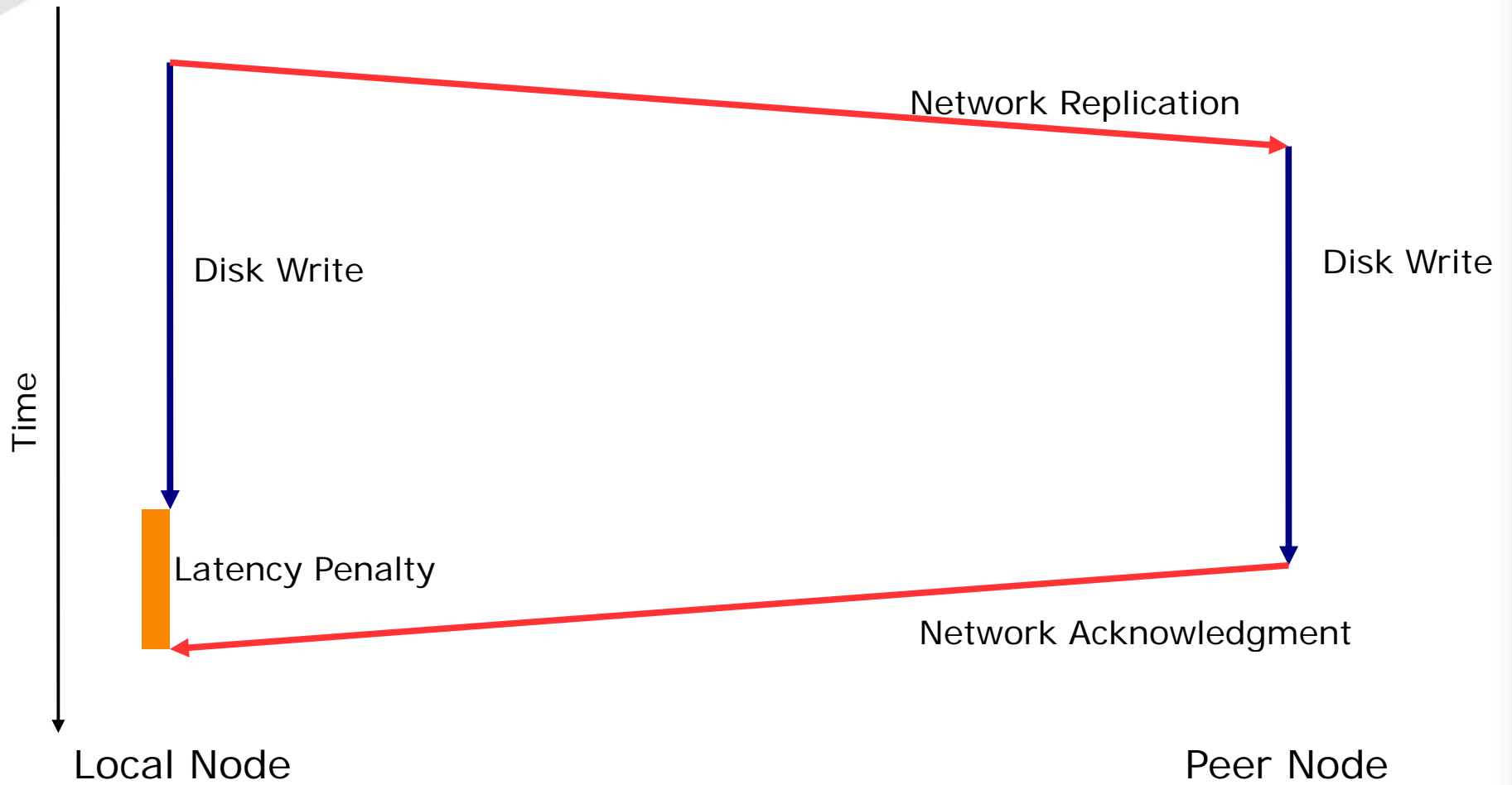
What affects DRBD Write Latency?



- Disk rotation speed
- RAID level
- Controller write cache
(don't use unless battery backed!)
- Replication network latency
- DRBD options no-disk-flushes, no-md-flushes
(don't use unless running on BBWC!)
- Activity Log size (al-extents)

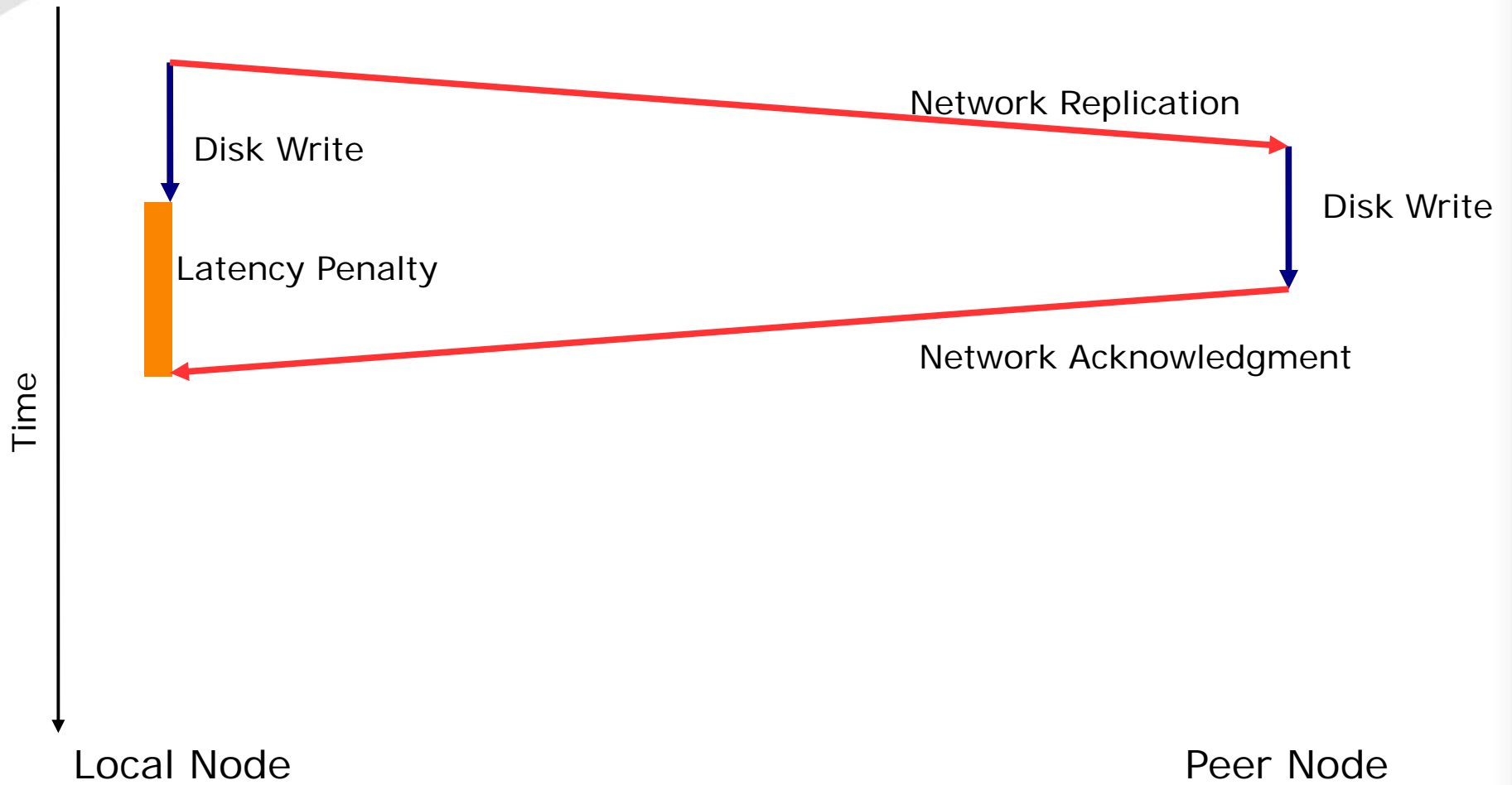
connect better

Write Latency Considerations



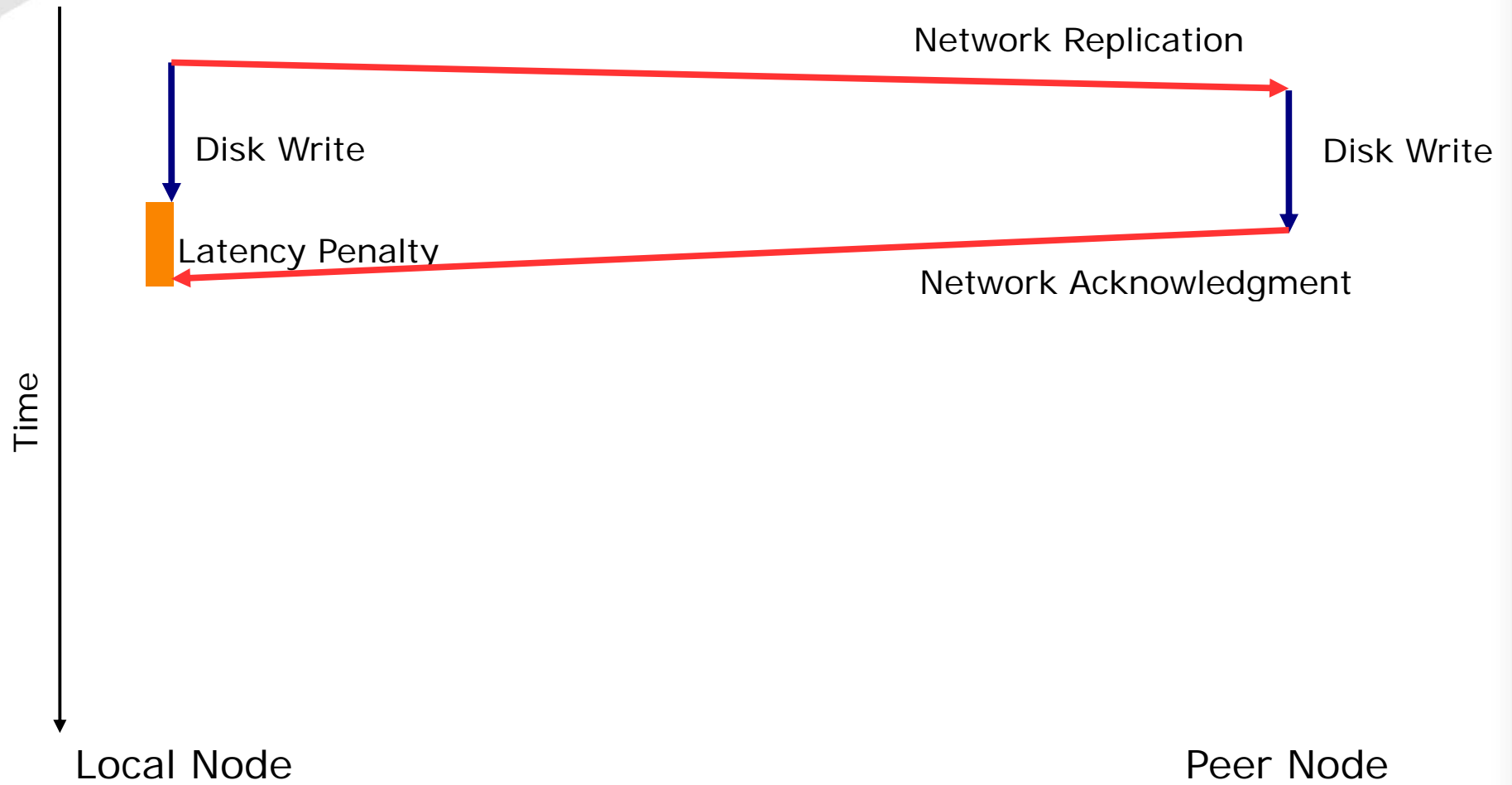
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Write Latency Considerations (with BBWC)



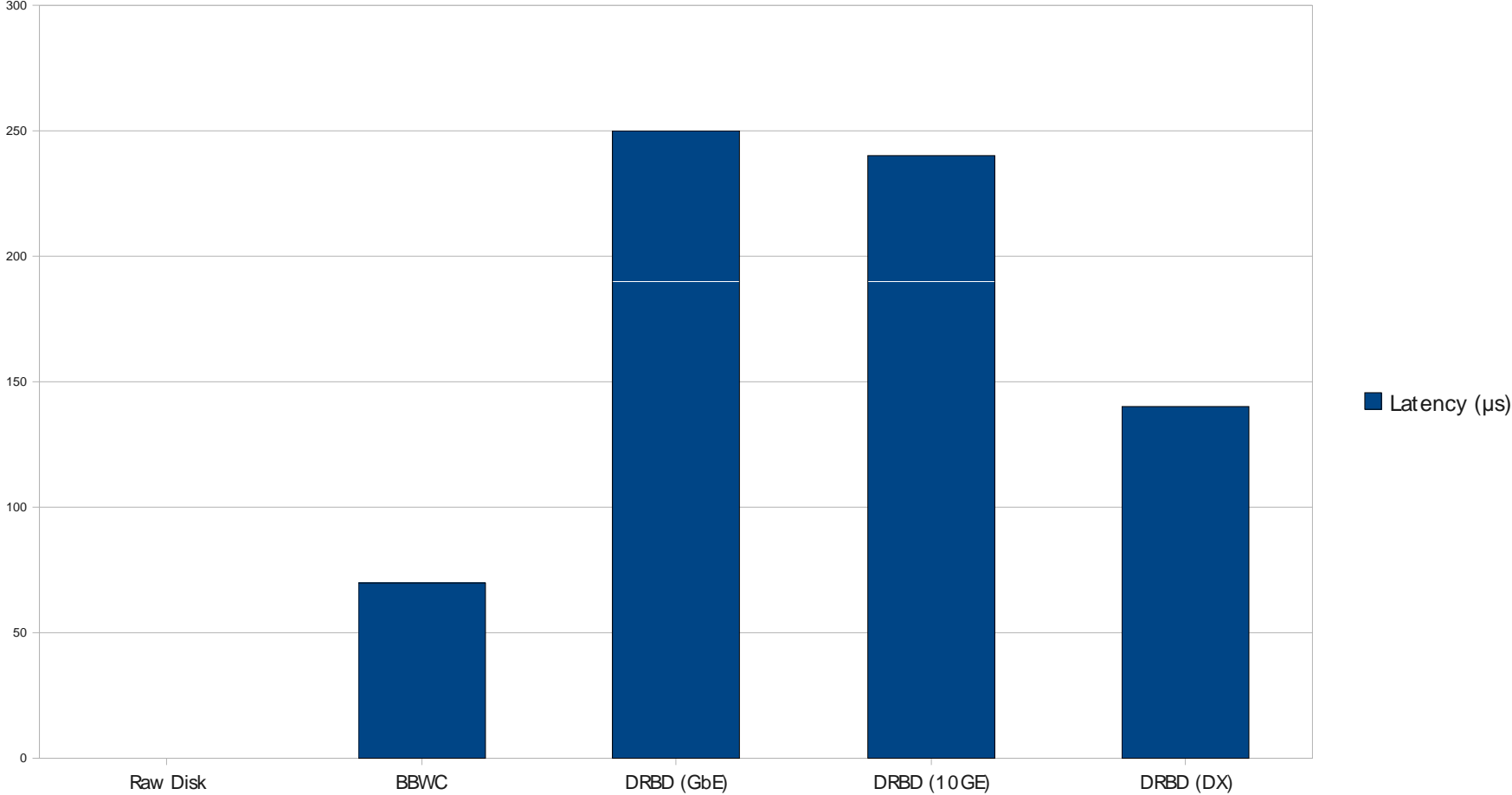
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Write Latency Considerations (with BBWC)



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DRBD Write Latency Comparison

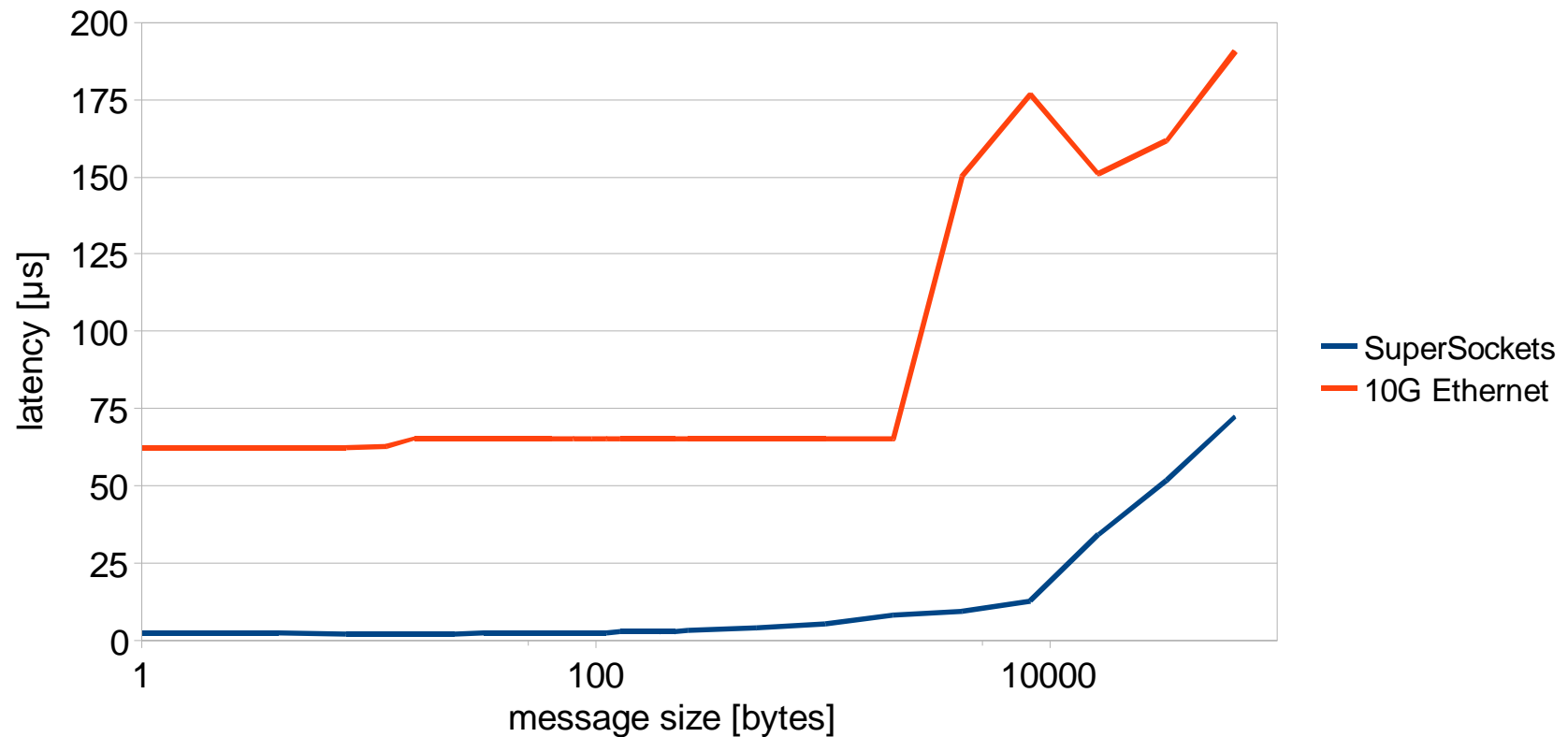


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Socket Latency Comparison



▶ 10GigE vs. Dolphin Express



Measured on Intel E5405 (Xeon 2.0GHz quadcore), SLES 10
10 GigE: Intel 82598EB CX4, driver 1.3.47 (default settings)
Dolphin Express: DXH510 CX4, driver 3.0.1 (default settings)

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- ▶ The improved performance of Dolphin Express in latency significantly help improve write performance of DRBD

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