

Lefont

Addressee Name
Title
Company Name
4321 First Street
Anytown, State 54321
Date 2/4/05

Dear Sir or Madam,

Widening buses will present new optimization opportunities. Each application exhibits a different degree of locality and therefore benefits from page mode to a different degree. As buses widen, this effect becomes more pronounced, to the extent that different applications can have average access times that differ by 50%. This is a minor issue considering current bus technology. However, future bus technologies will expose the row access as the primary performance bottleneck, justifying the exploration of mechanisms to exploit locality to guarantee hits in the DRAM row buffers: e.g. row-buffer victim caches, prediction mechanisms, etc.

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