

When we travelled to Dublin we came

VIA

Copenhagen from Oslo to get to the

SCI

summer school.

# VIRTUAL INTERFACE ARCHITECTURE

Introduced by Intel, Microsoft and Compaq Dec'97

The **1** commercial cluster API

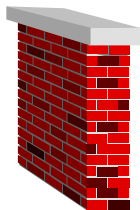


General API to suit different needs

a **thin** message passing layer - bypassing OS

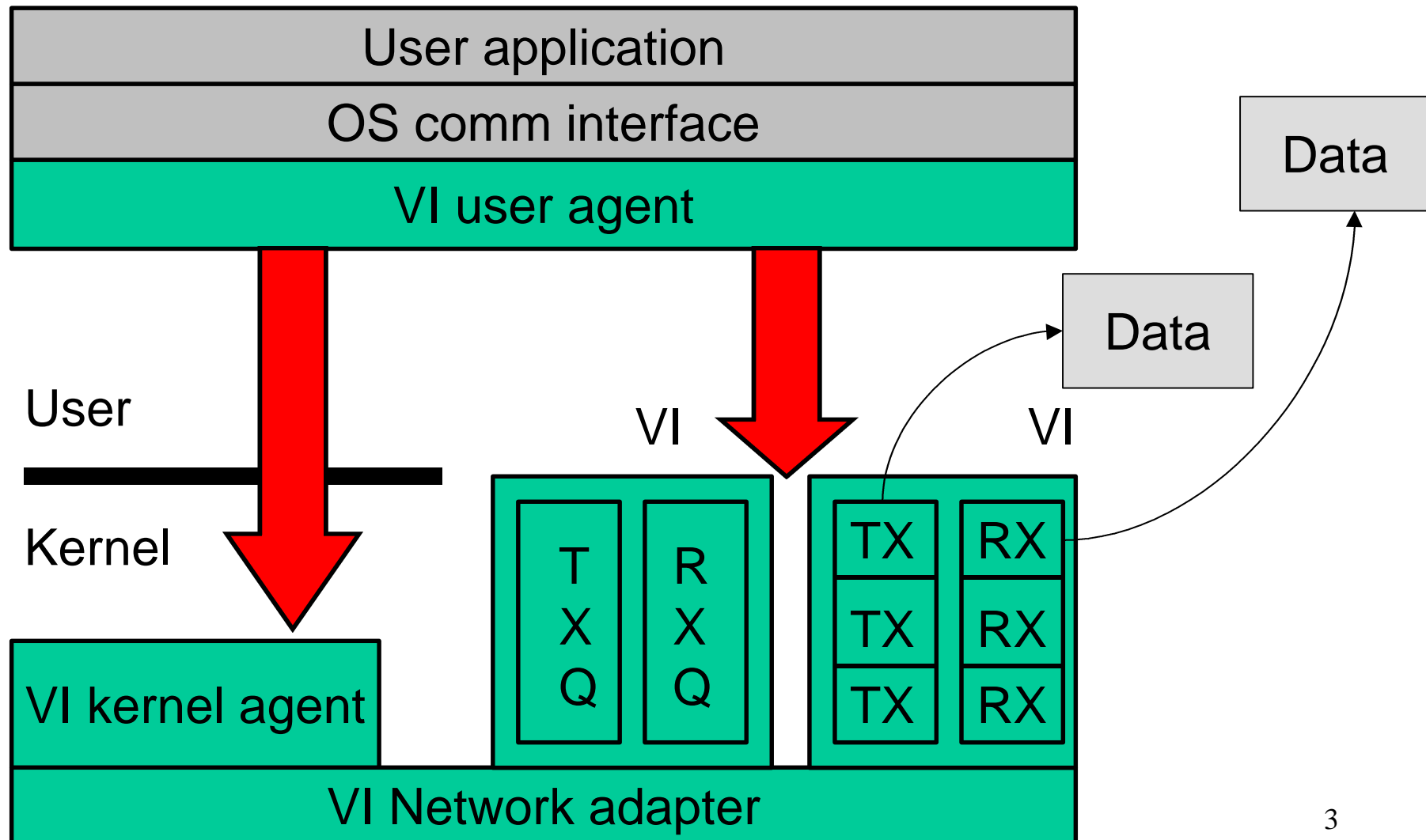


**Issues:** **Low** latency & **high** Bandwidth



A building block for MPI, Sockets etc.

# VIRTUAL INTERFACE ARCHITECTURE

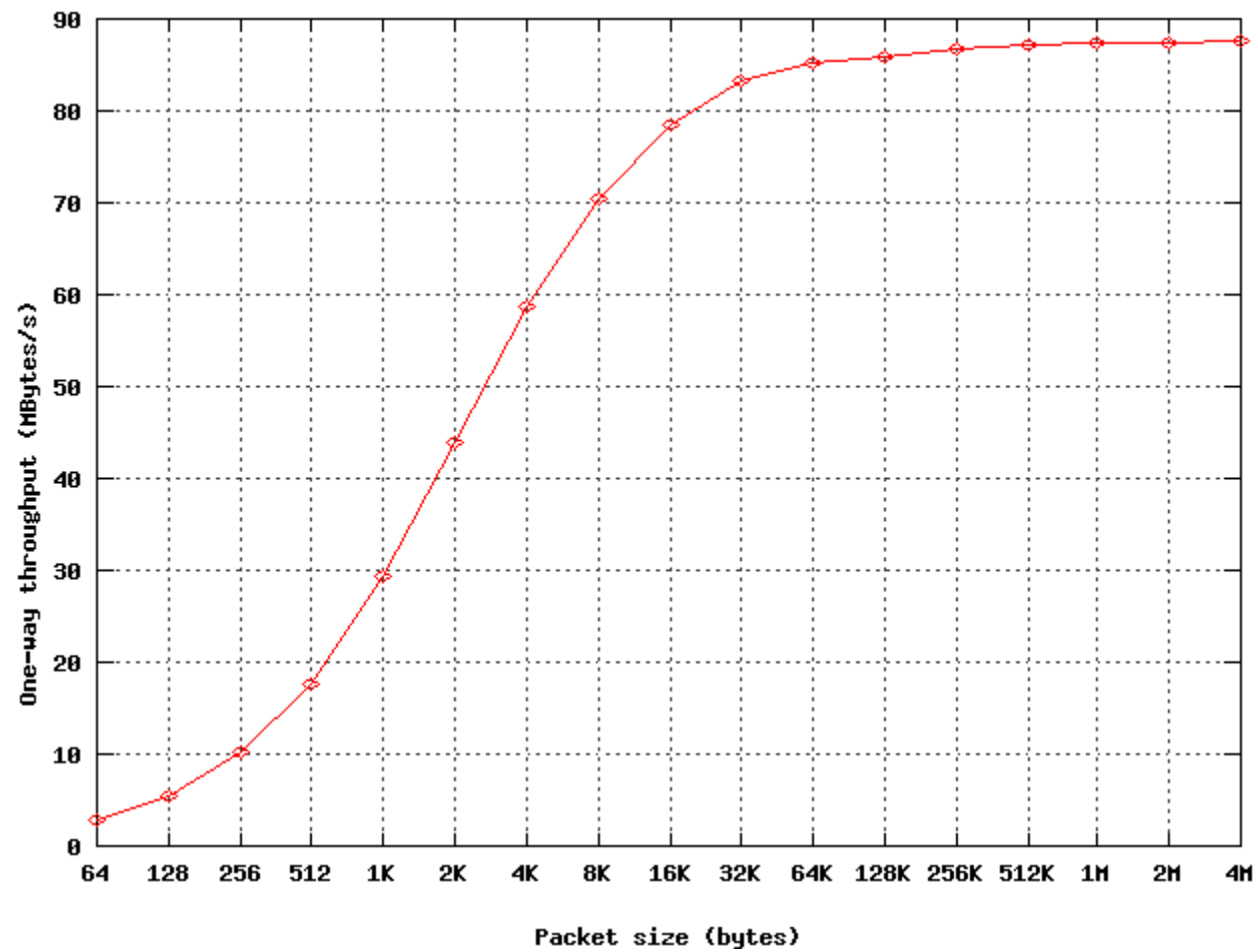




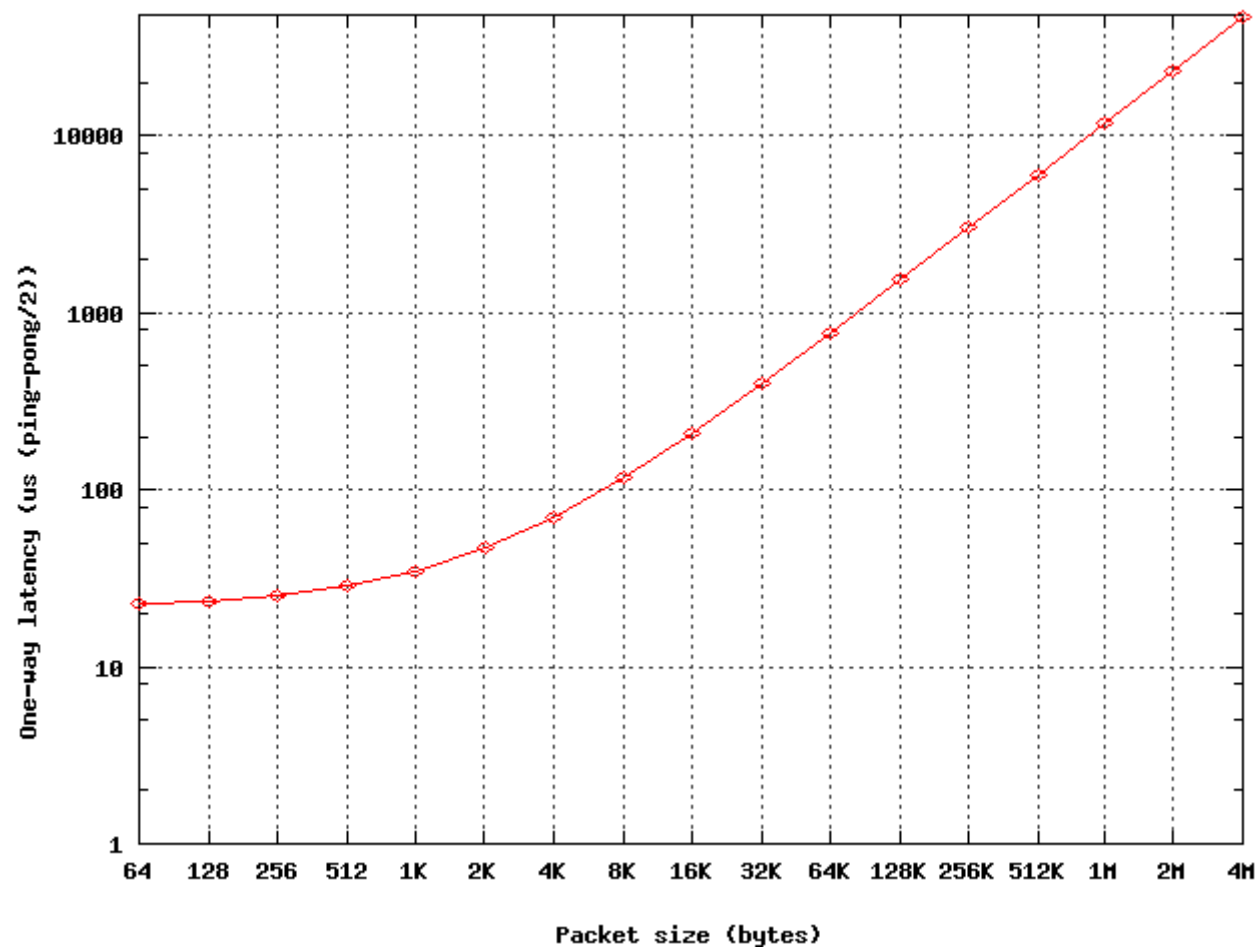
+  
Zero copy maps easy to SCI remote mapping

-  
Virtual memory is eaten up

# VIA



# VIA

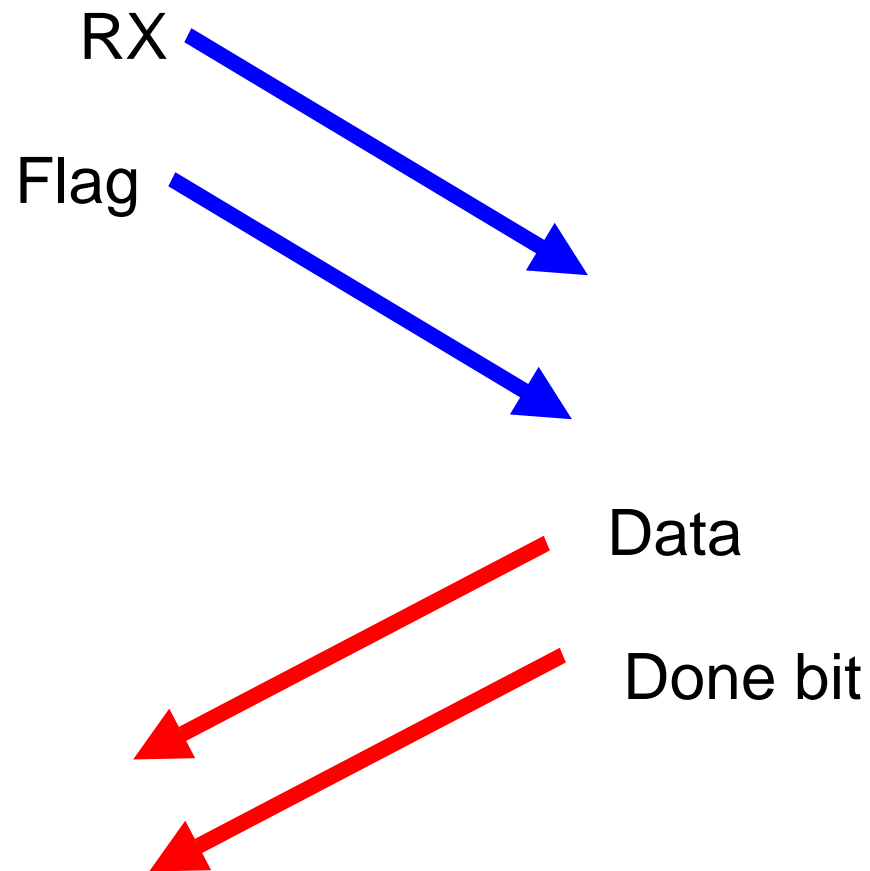


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Data transfer model today - **zero** copy

Receiver

Sender

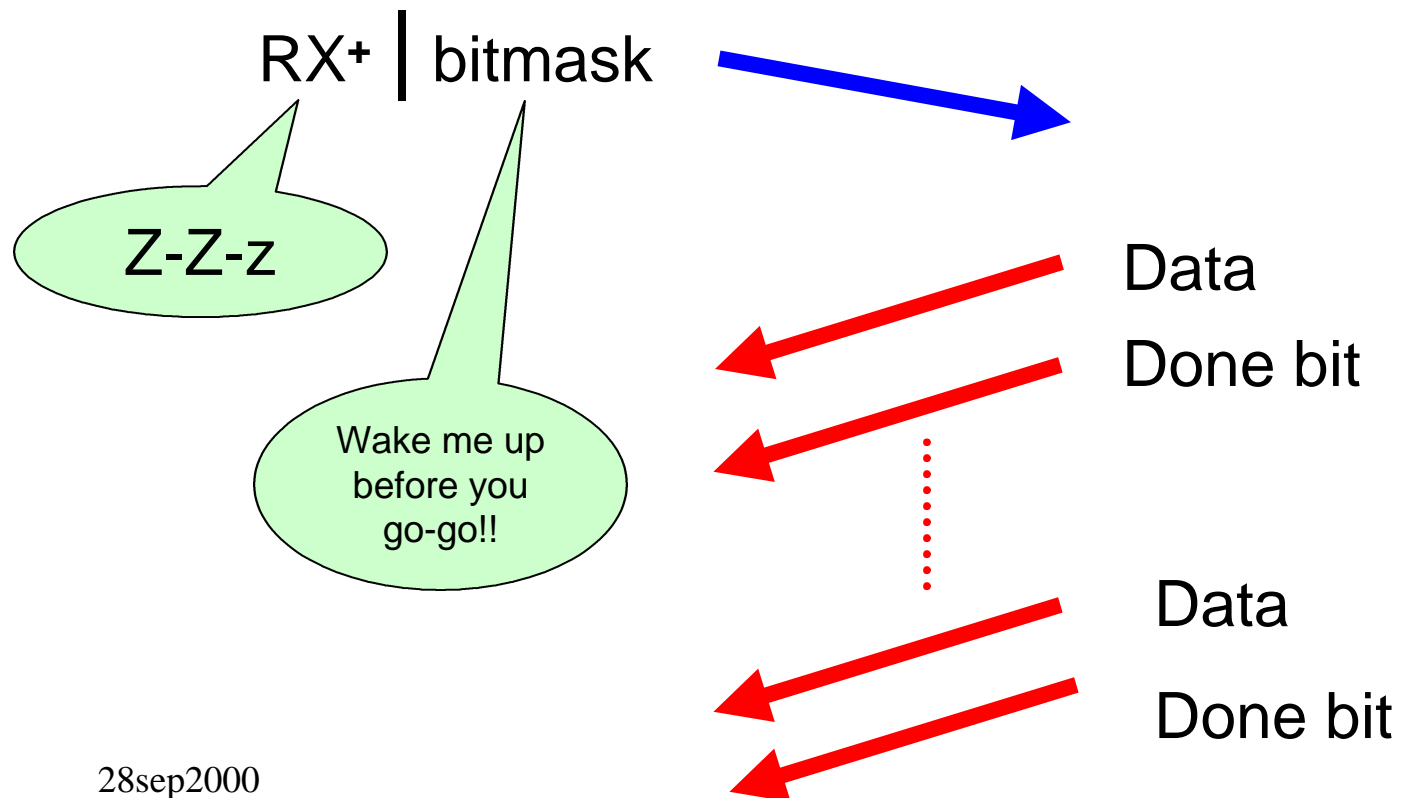


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Optimized large messages - **zero** copy

Receiver

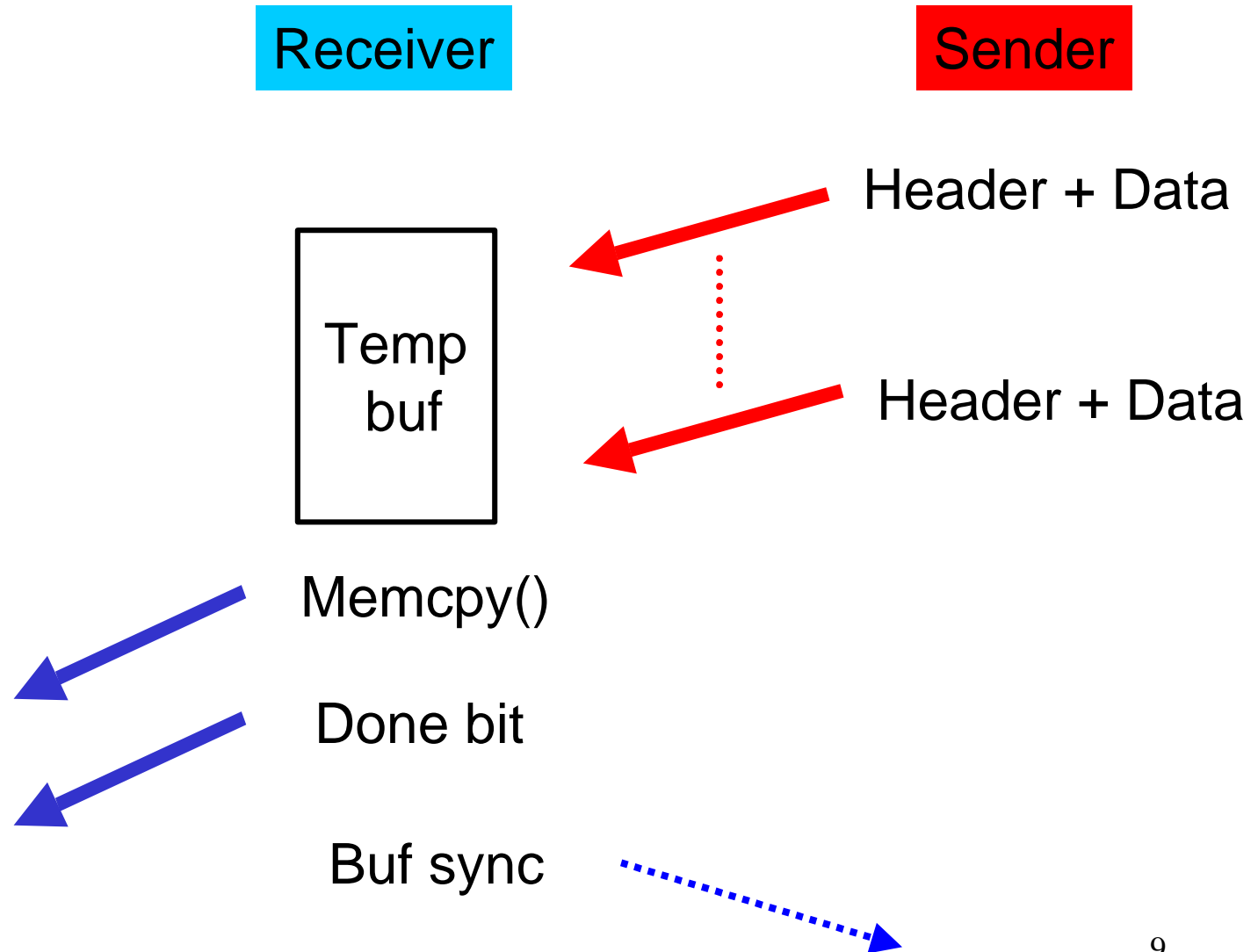
Sender



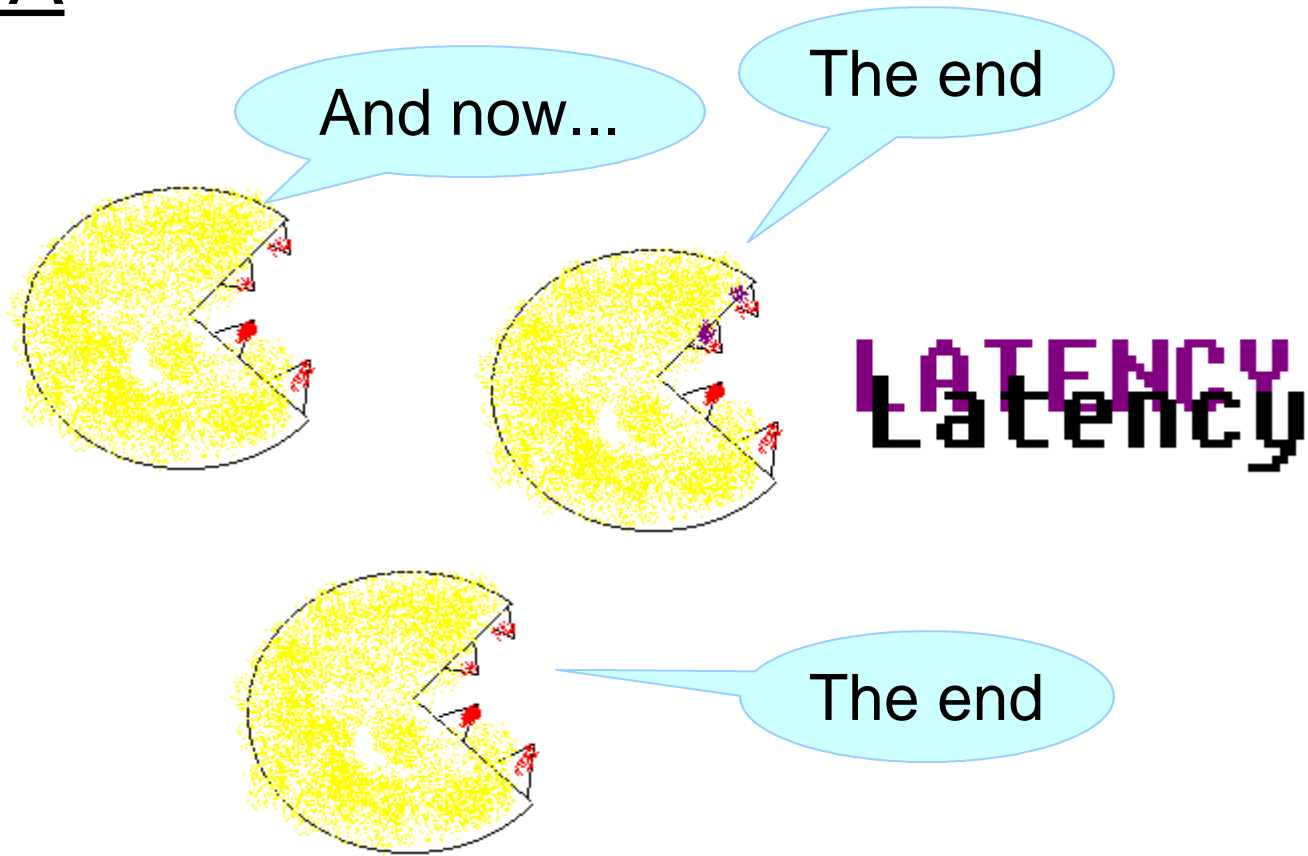


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Small messages - **one** copy



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Happy **hacking** from Scali's monster latency killer!