

King of SAN; Fibre Channel, IP Storage or InfiniBand

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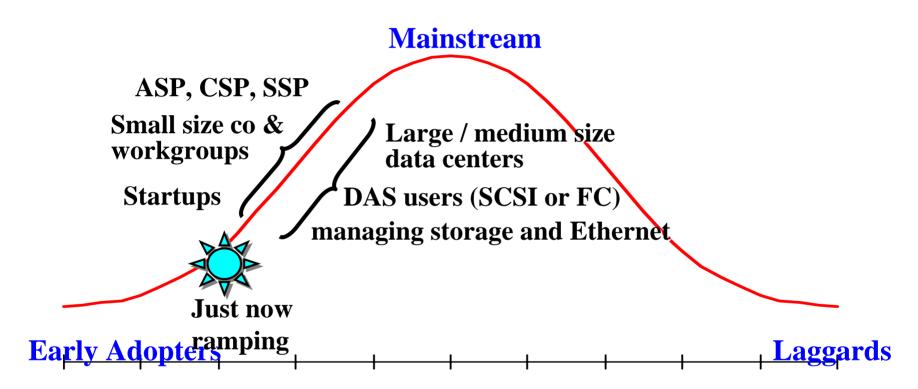
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Storage Networking Adoption Curve



Storage Networking Futures New interconnect choices

• Fibre Channel

- Will dominate storage networking industry for several more years
- Will go to 10 Gigabit
- Will never go away
- InfiniBand
 - Targeted at inter-processor communications (IPC) and PCI replacement at introduction
 - Will enter the storage networking market late
 - Very promising, but all new
- IP Storage
 - iSCSI enables block storage, VI enables IPC
 - Must be offloaded & accelerated to compete with Fibre Channel

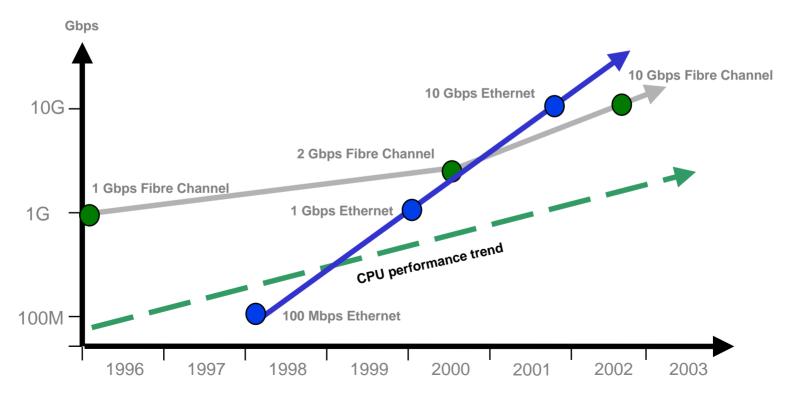
and InfiniBand

Bob Han Att 40 Cob his Cost will threaten dominance of Fibre Channel

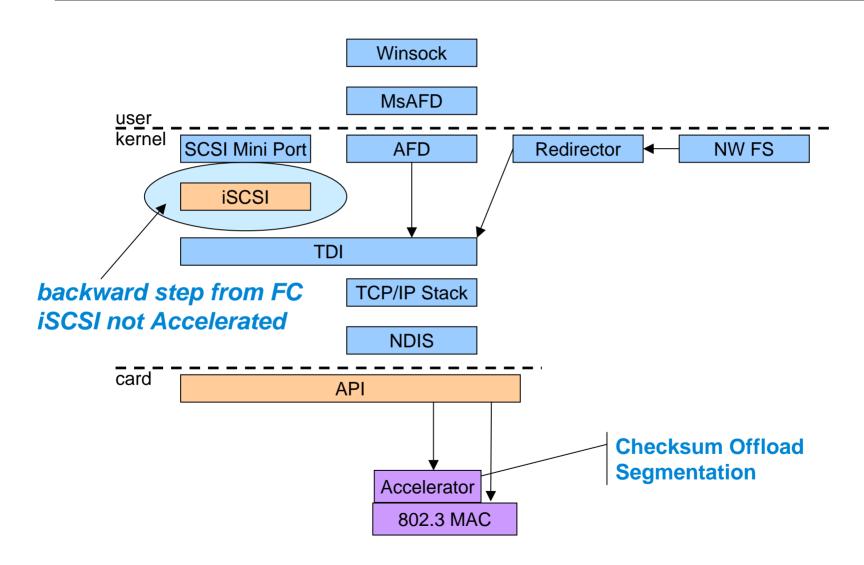
I/O Offloading - not just an option

 CPU performance CAN NOT keep up with the demand for faster networking result - iSCSI requires OS offload and hardware acceleration

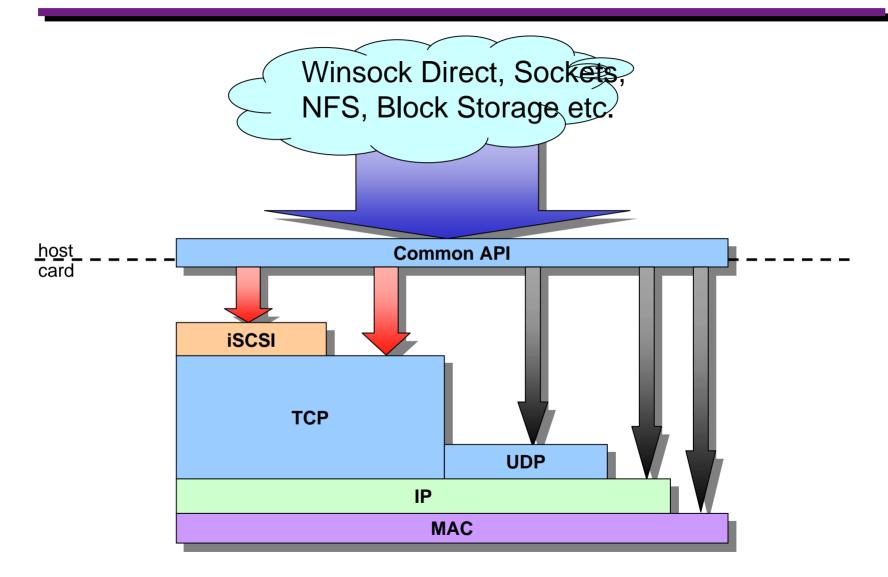
(just like Fibre Channel)



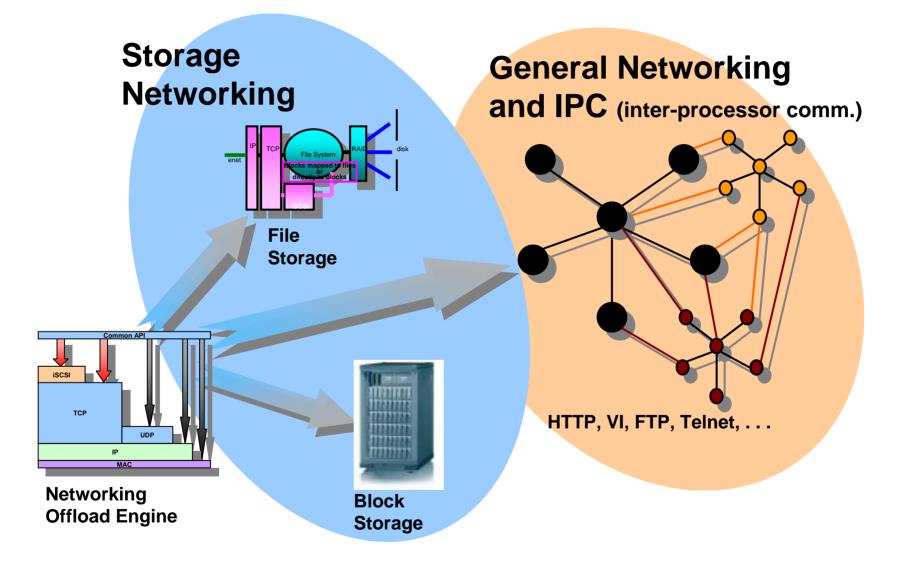
iSCSI in Software



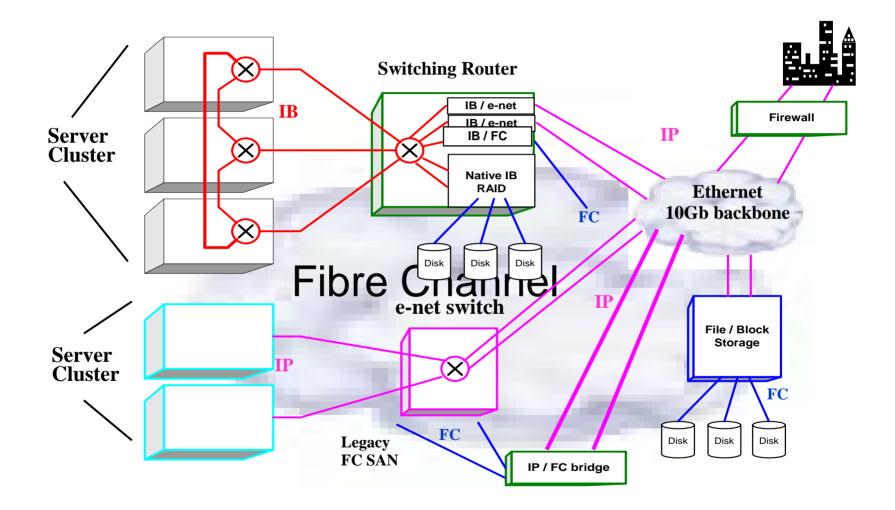
Networking Offload Engine (iNOE)



iNOE Applications



Data Center Design of the Future Too many options!



Conclusions

- In the short term, Fibre Channel is the only choice for high performance storage networking.
- InfiniBand may be the best technology choice but will enter the storage networking market late.
- At 10Gb, iSCSI will threaten dominance of Fibre Channel in the storage networking market.

The biggest challenge -

TOO MANY CHOICES!