

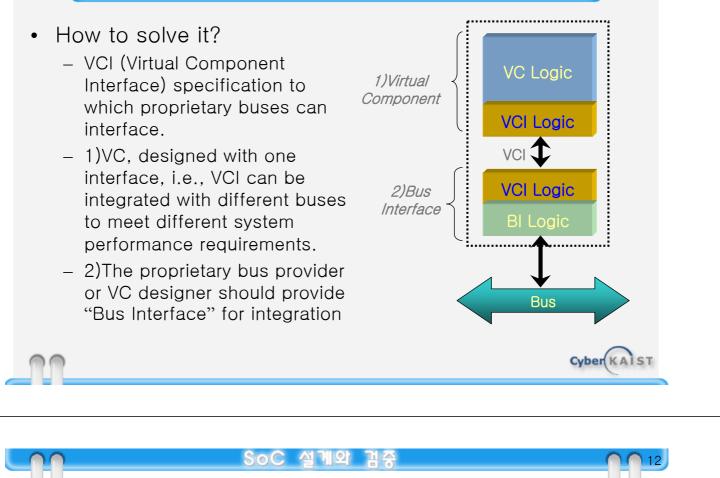
SoC 설계와 겸중

Interface-based Design

- Concept of VSIA's VCI (Virtual Component Interface)
 - Mix and match of "virtual components" from multiple sources on a single silicon chip.
 - "Virtual components" obey the standards as provided by VSIA.
- Challenges
 - Many on-chip bus standards exist, but no single bus can satisfy all the requirements from varying situations.



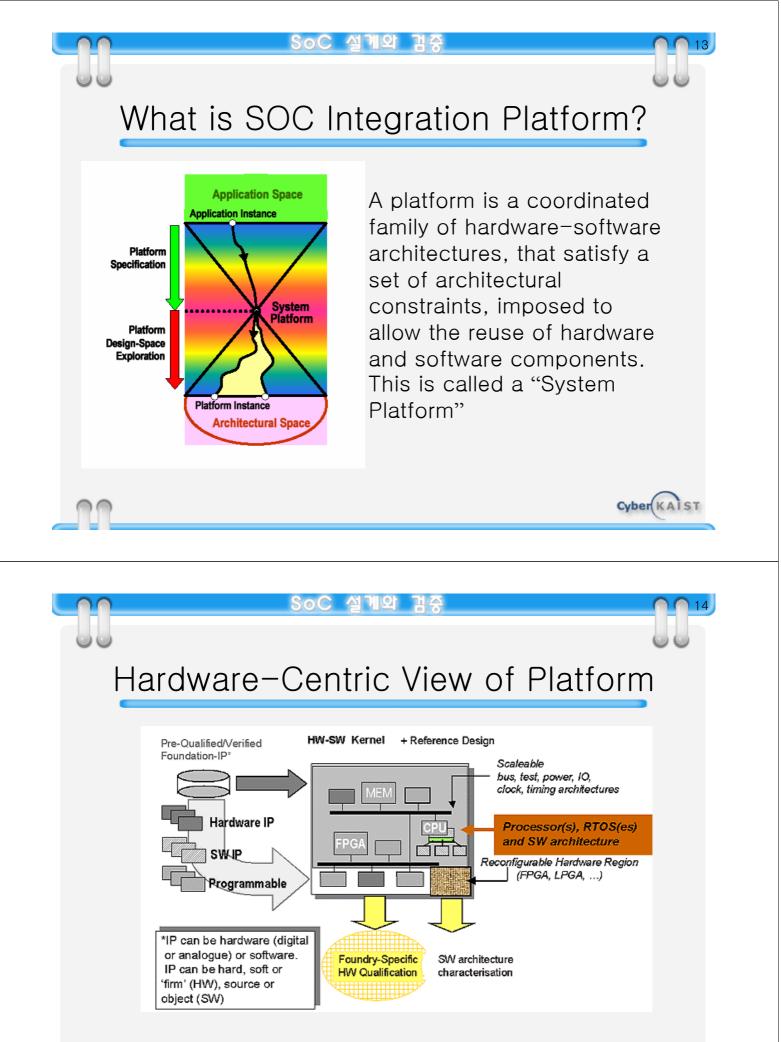
Interface-based Design



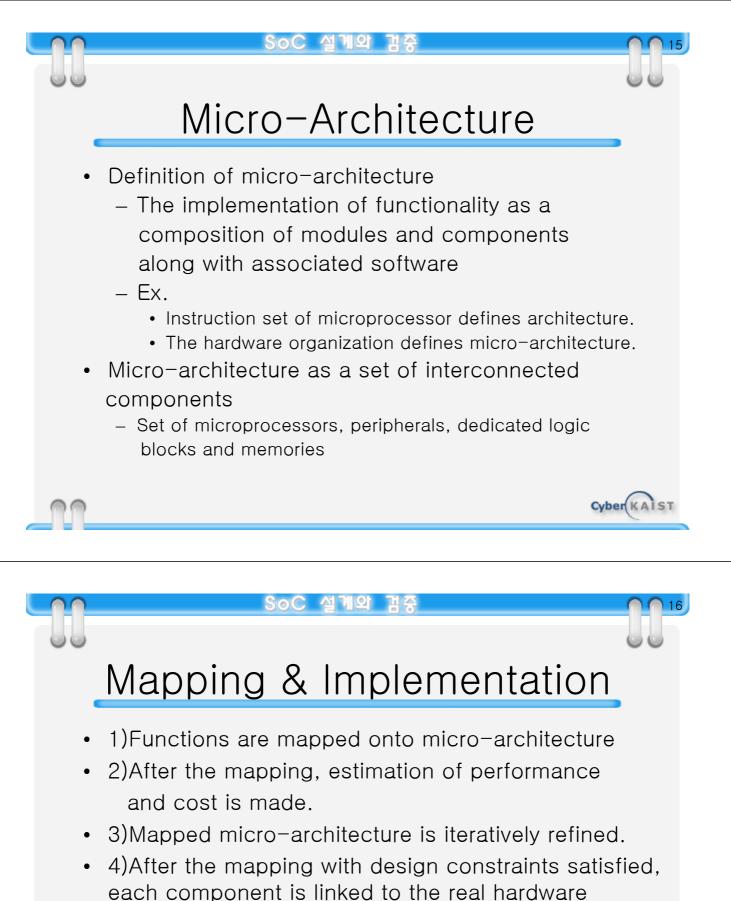
Platform-based Design

- What is it?
 - Substantial reuse of design implies that the basic implementation of SOC remains "fixed".
 - Certain degree of parameterization is possible.
- "Platform-based Design" is SOC design platform proposed by GSRC
 - GSRC, Gigascale Silicon Research Center
 - <u>http://www.gigascale.org</u>





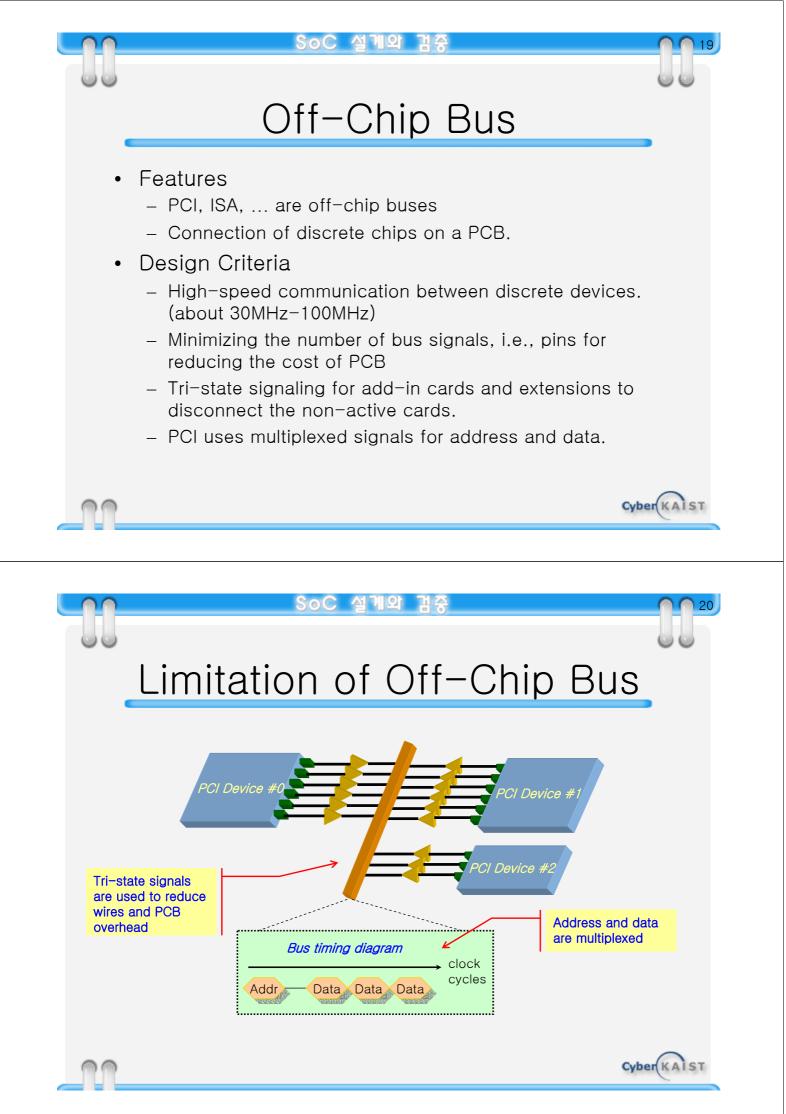
Cyber (KAIST

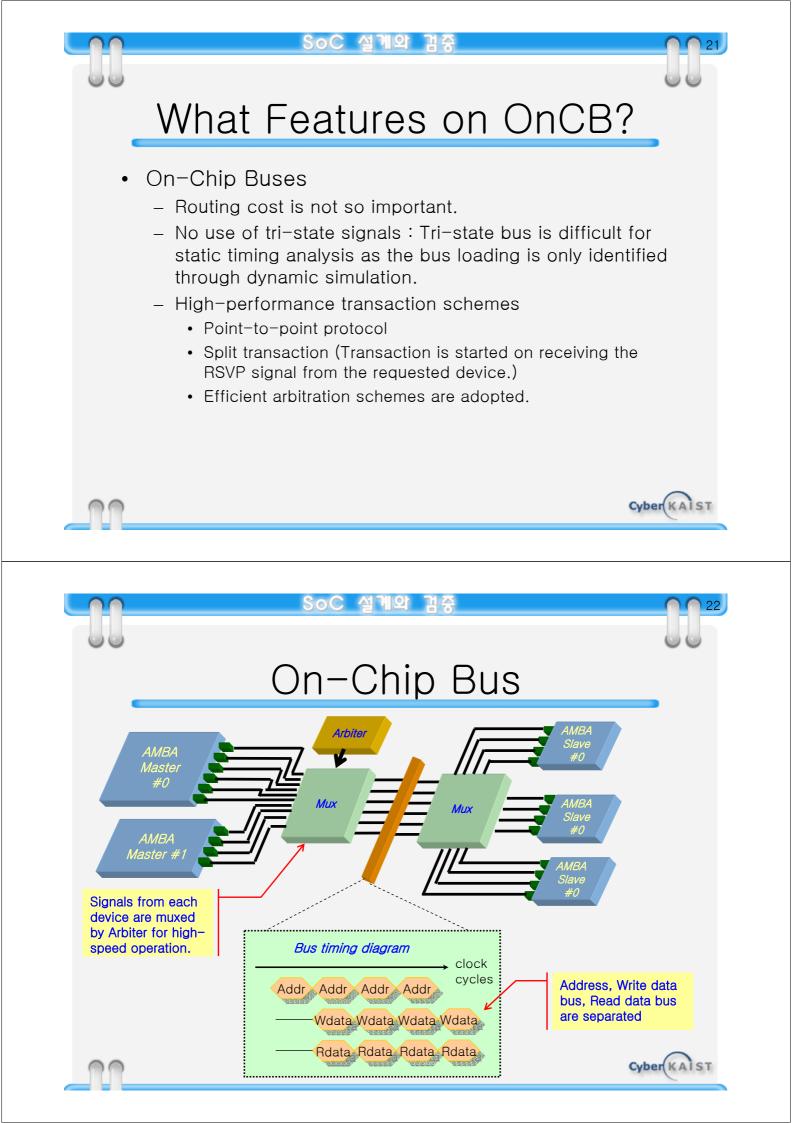


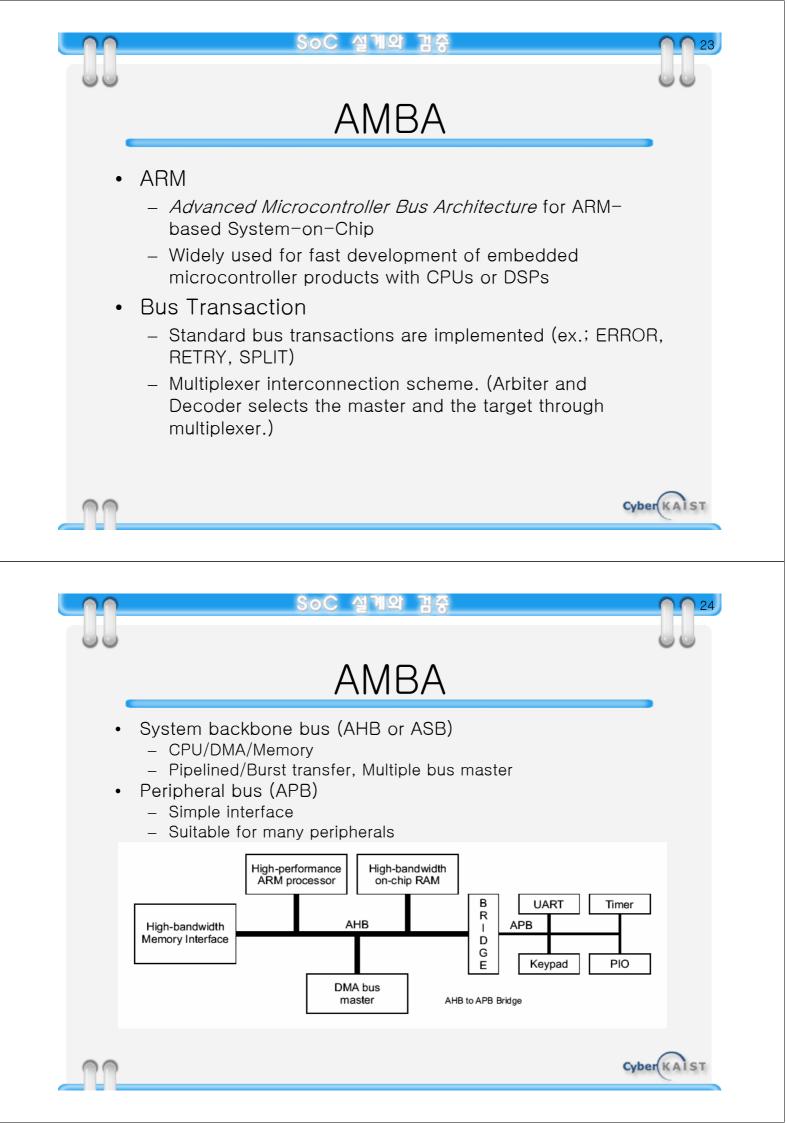
implementation or software component.

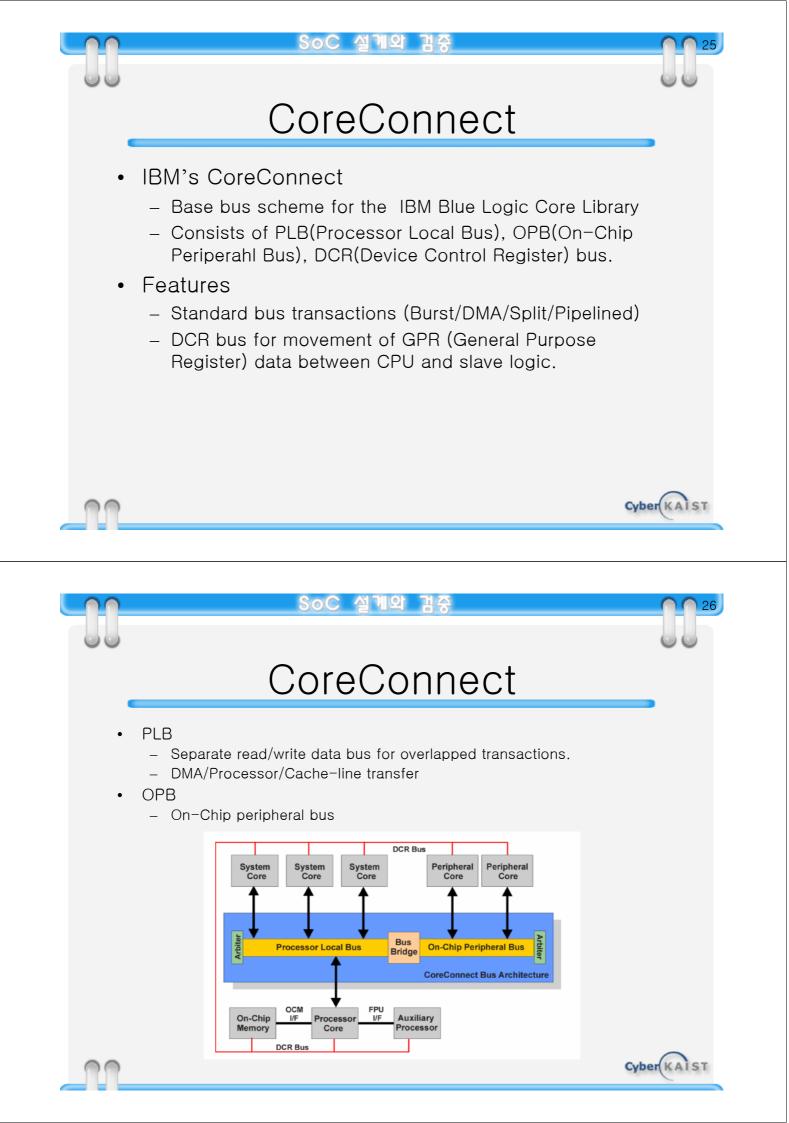


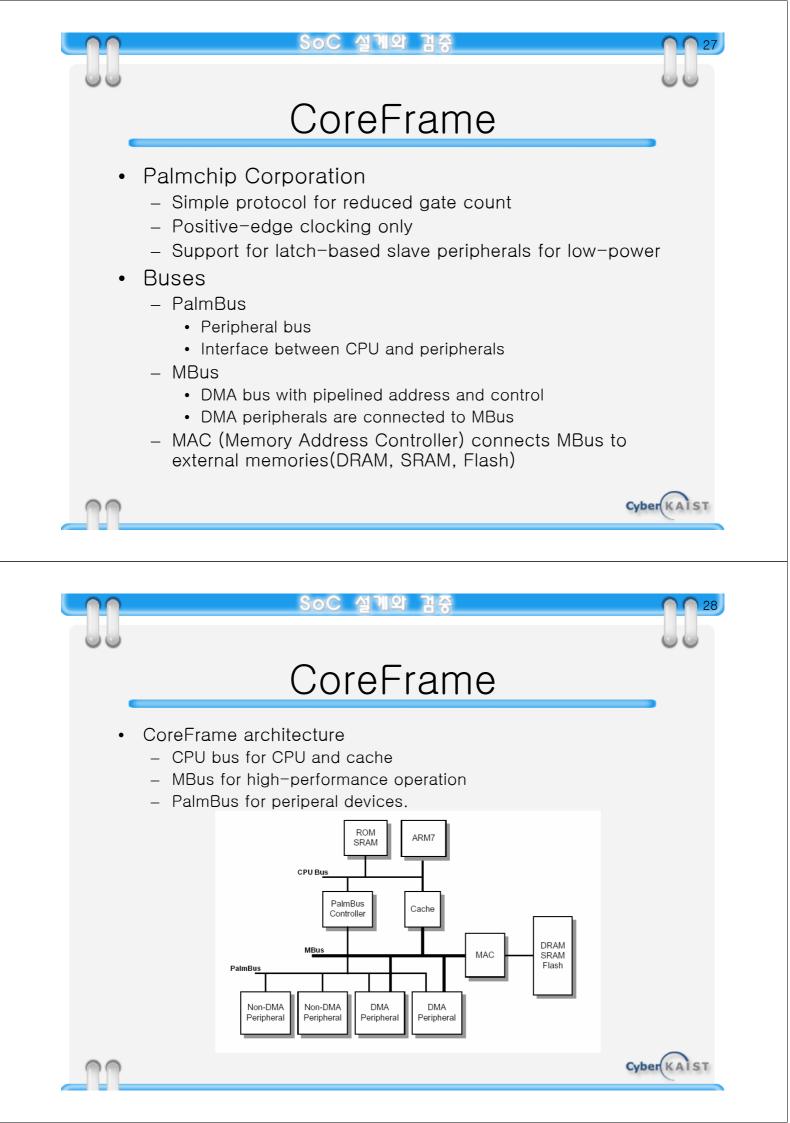


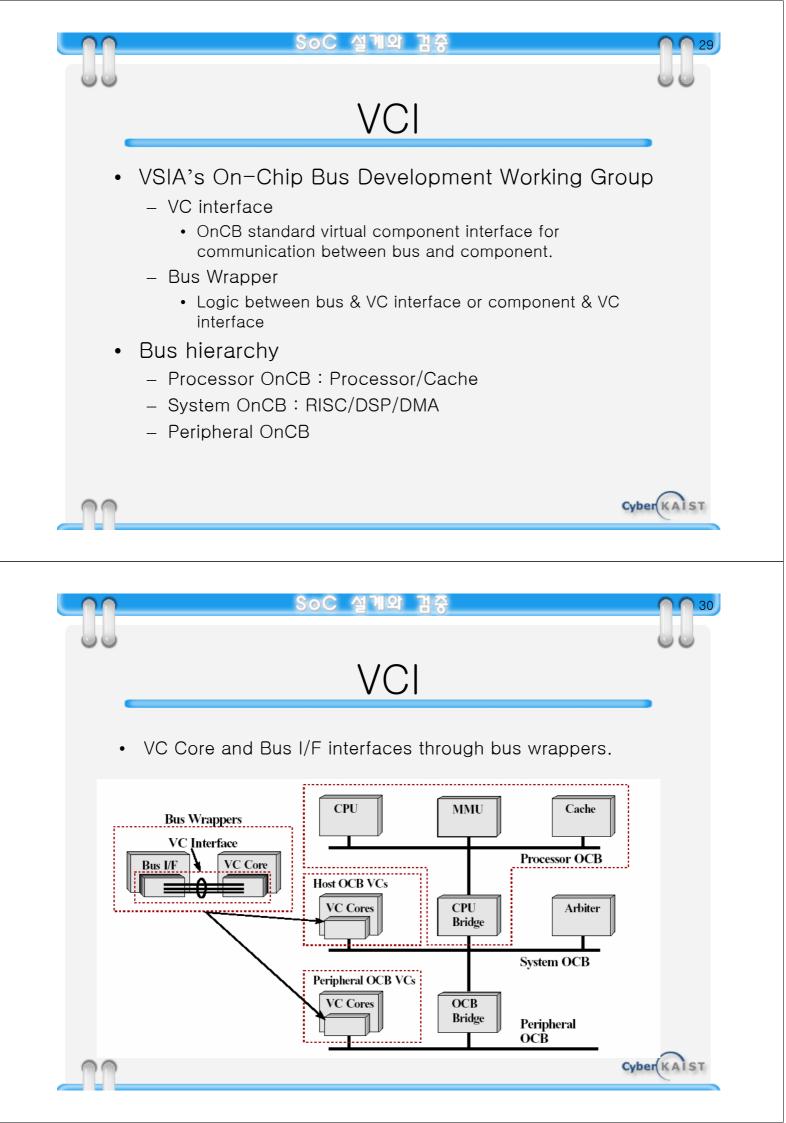


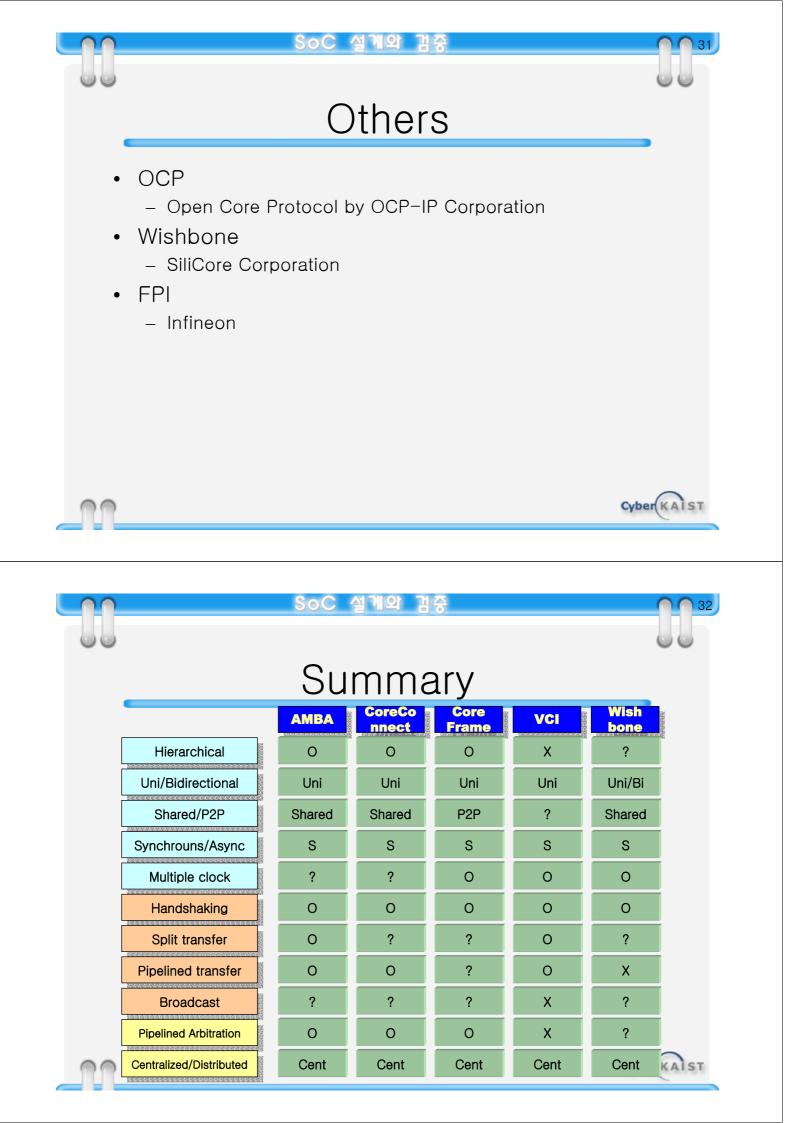




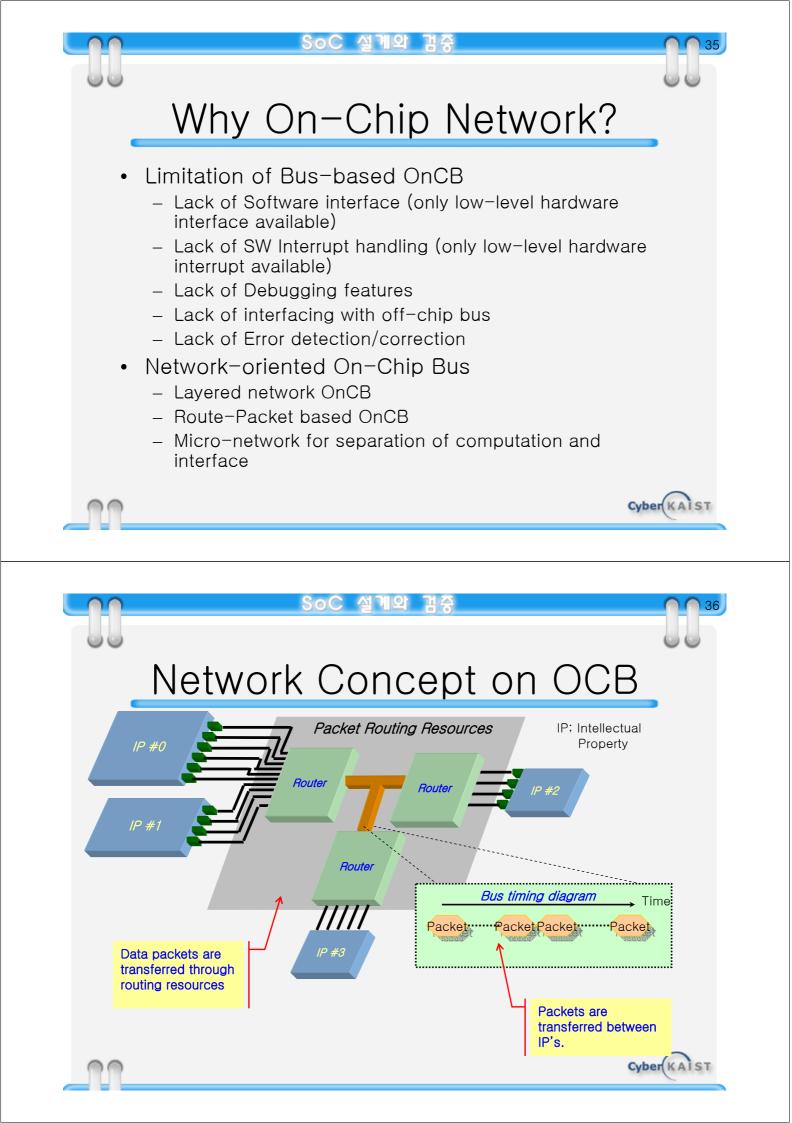


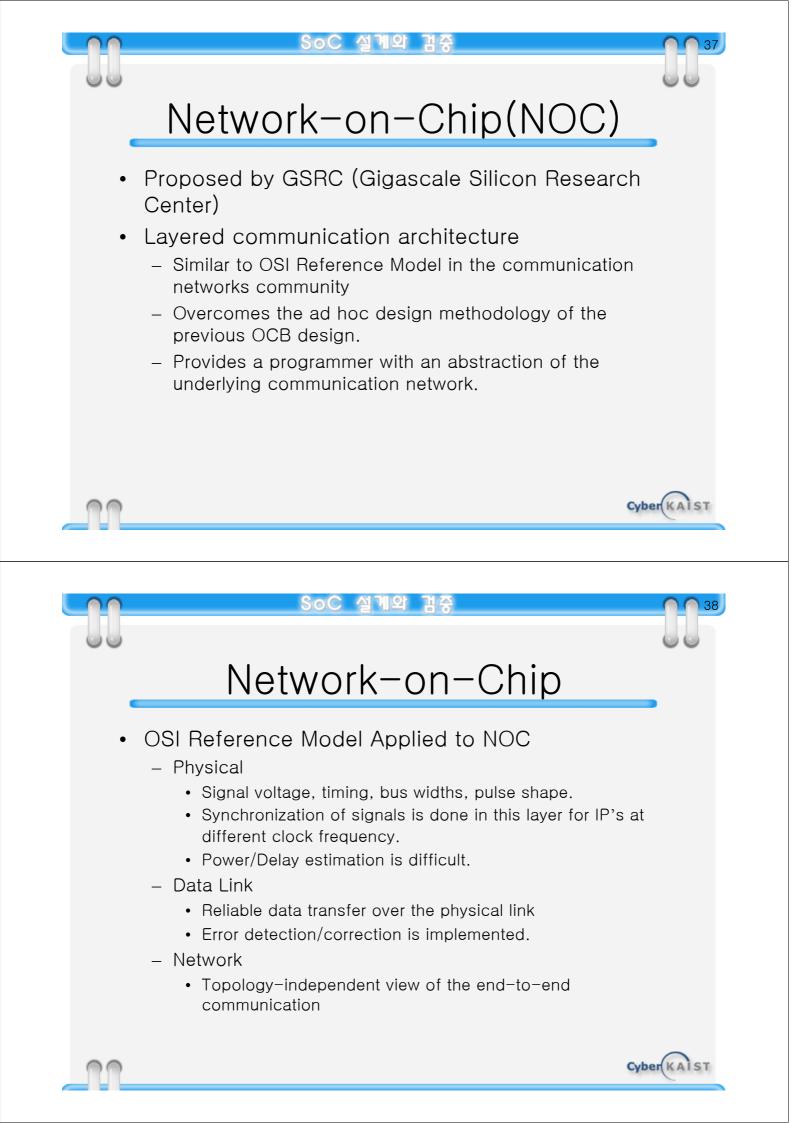


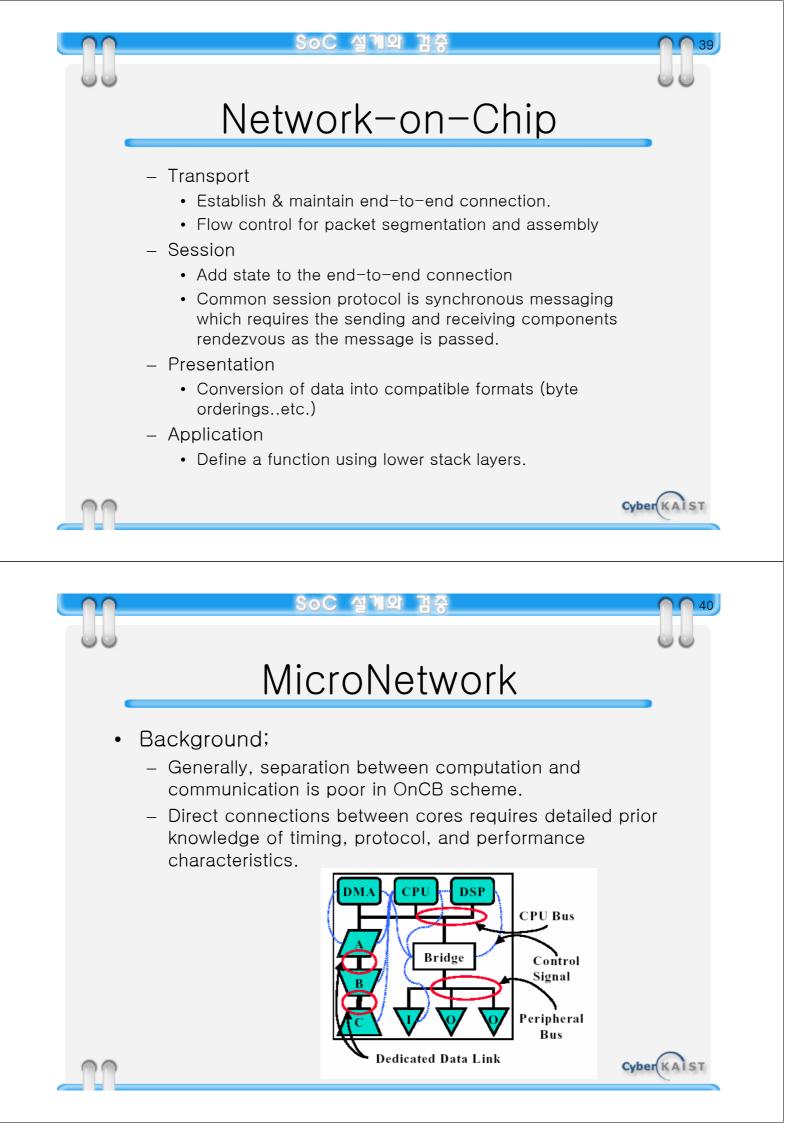


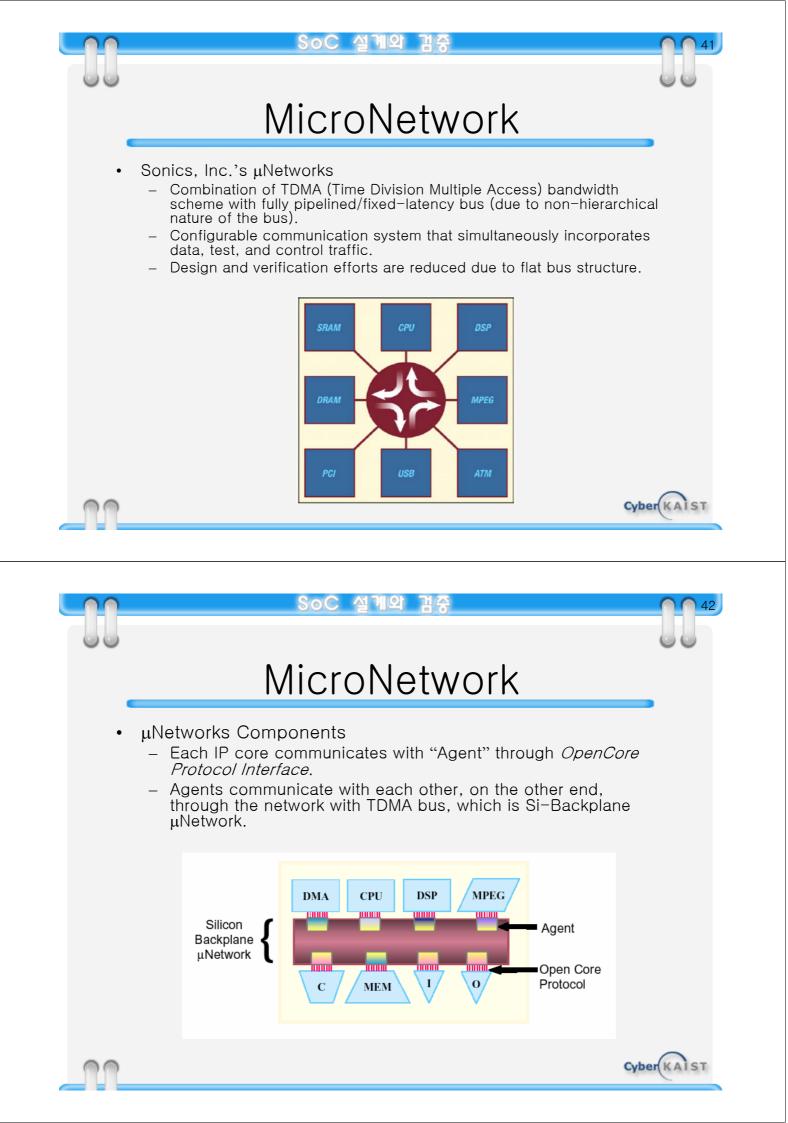


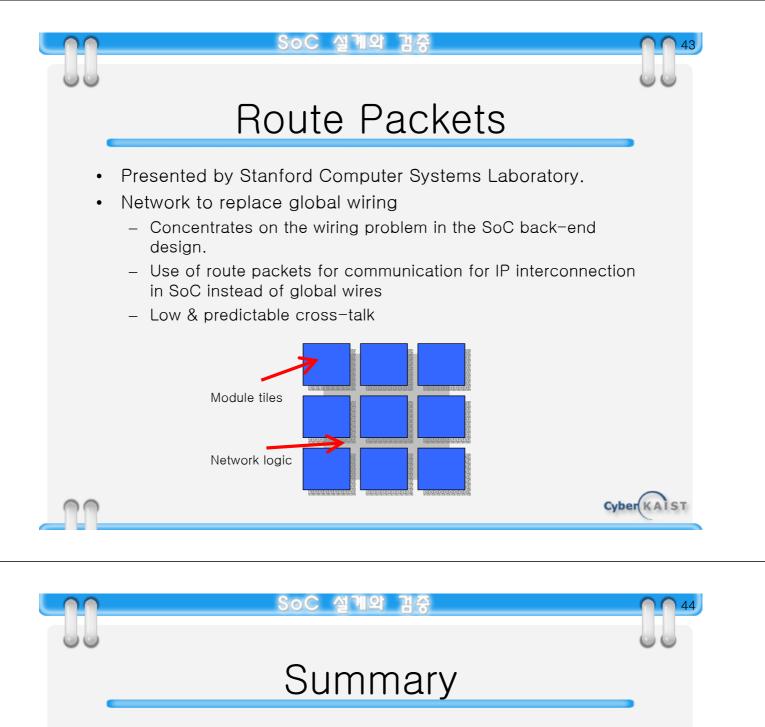












- The network connection throughout the chip
 - Application of network-area concepts to the on-chip bus.
 - Simplified verification of interconnection problems between IP's.
 - Wire load and delay are more predictable.

