# Promising Concept:



## Co-processors and Accelerators



▶ **Excellent way to get power-efficient performance boosts**

- ❏ Special-purpose, tuned solutions for common functions
- ❏ Drop to low-power states when not in use
- ❏ Enabled by Modern API's

▶ **Aligns with modularity imperative**

- ❏ Co-processor becomes another (optional) "IP block"
- ❏ Micro-architecture: *Command delivery, Synchronization, Streaming*

▶ **Many possible opportunities now, and/or in the future**

- ❏ Media processing
- ❏ JVM/CLR runtime hosting
- ❏ NIC integration (TOE, XML, SSL, etc)

**AMD**