











- Partition data flow oriented process
 - →Common interface
 - \rightarrow Partitioning: Spatial and temporal
 - \rightarrow Programming: Application level and device level
- Examples of Stream-Based Processing





MPRG









Essence:

Independent (potentially selfsteering) streams of programming information and operand data that interact within the architecture to perform the computational problem at hand.



Wormhole RTR Stream Format

Stream Format















Modular Stream-Based Design

• Modular design

- \rightarrow Interchangeable and simplifies design process
- \rightarrow Global complexity traded for local complexity
 - Increases size of each module

• All modules contain:

- → State machine
- →Configuration registers
- →Processing pipeline
- →Bypass pipeline















Generic Stream Module

