



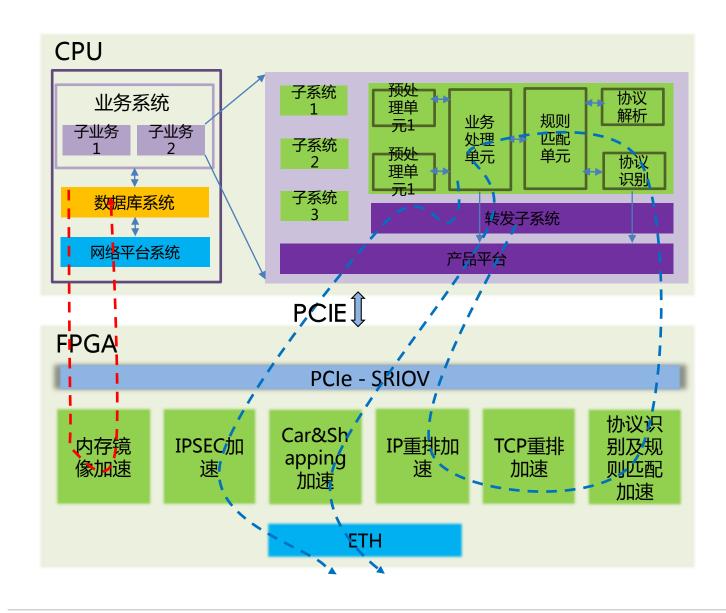
华为FPGA开发方法论与实践

王晓

LEADING NEW ICT

CT场景FPGA加速应用案例





CT领域业务特点

- 软件功能复杂
- · 对性能时延的极致要求
- 严格的可靠性要求

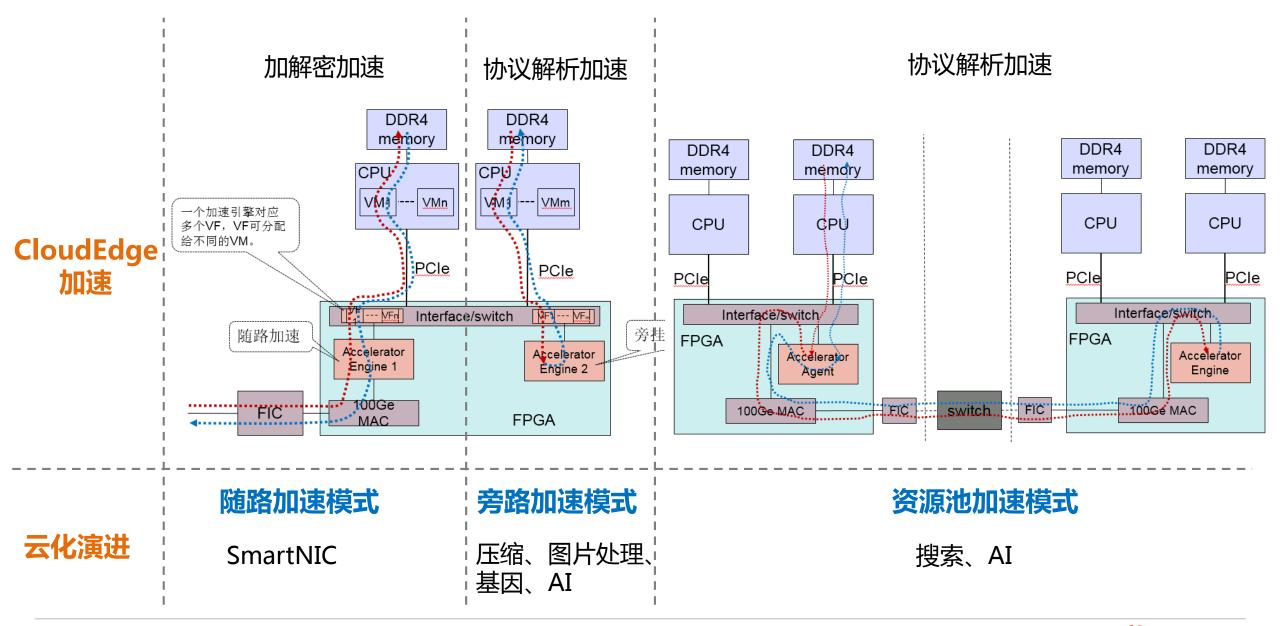
FPGA在CT场景应用的效果

• 将端到端的业务性能提升了1倍



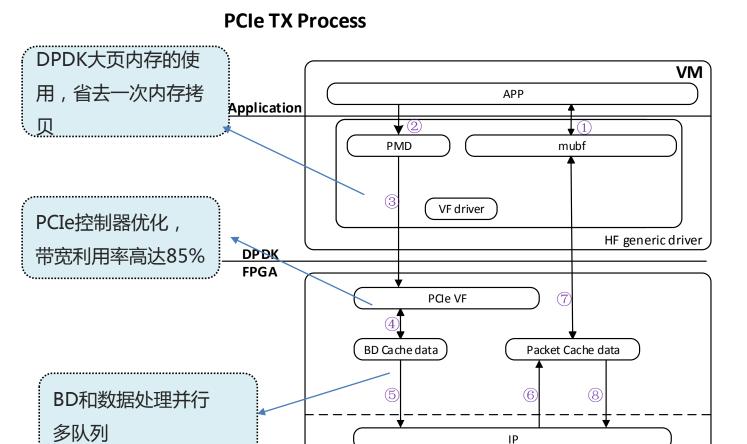
FPGA在CT领域积累-为云化应用做好技术准备



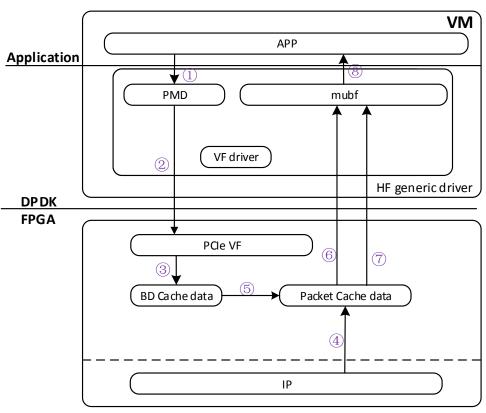


FPGA在CT领域积累-高性能框架





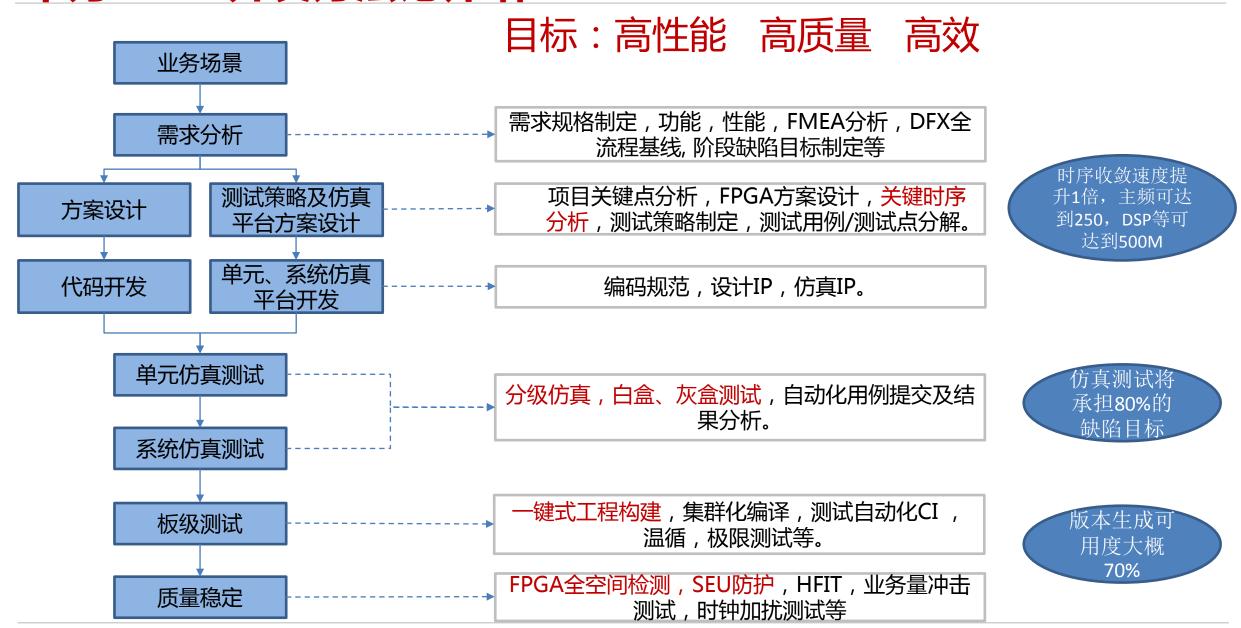
PCIe RX Process





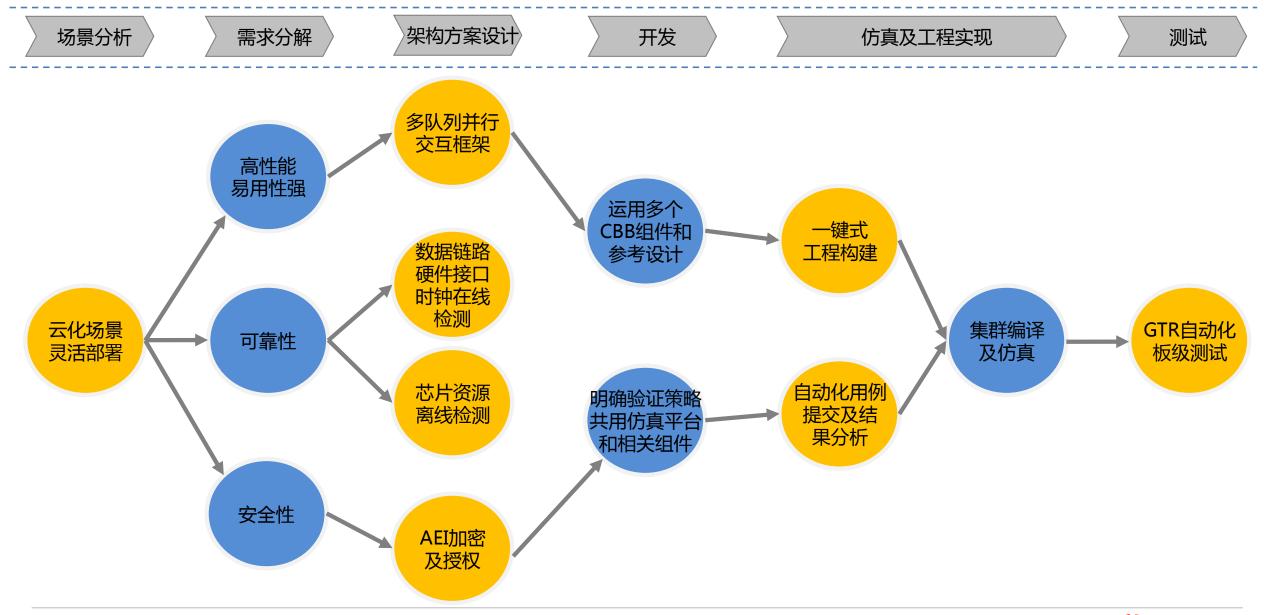
华为FPGA开发方法论介绍





华为FPGA开发实践——华为FPGA Shell设计

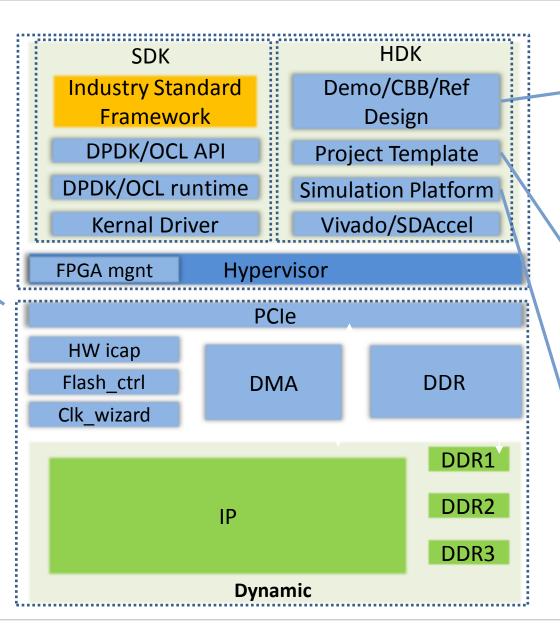




如何开放华为的方法、能力



- · 提供HDK开发套件和 SDK软件驱动
- 支持两种框架下的 API,与工业级的标准 框架对接
- 用户基于软硬件框架 来开发加速引擎即可



设计类

- •支持多个领域Demo,覆盖AI、媒体等
- •支持20+参考设计,网口、RAM及周边器件交互,FIFO

工具类

- 一键式构建脚本
- 集群编译环境

平台类 – 仿真验证平台

- 支持多语言: C、SystemVerilog
- 支持UVM方法学
- 支持接口: AXI4
- 支持测试用例及平台分离
- 支持仿真覆盖率分析





THANK YOU

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