



ARM SUPPORT IN DPDK

Current Status as of November 2015

Current Hardware

Pre DPDK 2.0

- X86 (various)

DPDK 2.0

- PowerPC

DPPDK 2.1

- TILE-Gx

DPDK 2.2

- ARMv7 & ARMv8

ARMv7 Status

- Intel engineers published ARMv7 port
- RehiveTech pushed alternative ARMv7 port one day later
- Intel & RehiveTech worked together to merge into one common port
- RehiveTech published final patch set
- Maintainer: Jan Viktorin viktorin@rehivetech.com

Has been merged into DPDK 2.2 RC2

ARMv8 Status

- Intel engineers published ARMv8 port
- Cavium Networks pushed alternative ARMv8 port one week later
- Intel, RehiveTech & Cavium worked together to merge into one common port
- Cavium Networks published final patch set
- Maintainer: Jerin Jacob jerin.jacob@caviumnetworks.com

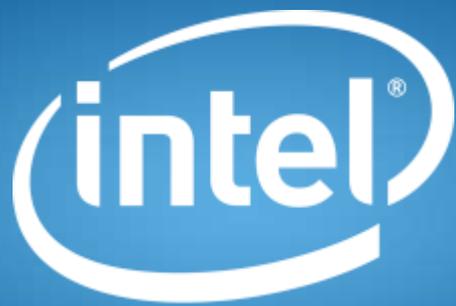
Has been merged into DPDK 2.2 RC2

ARMv7 Functionality

- Huge page support untested (needs kernel ≥ 3.11)
- No PCI support available (run with `-no-PCI`)
- No Physical NIC support in mainline as yet
 - PMD for Axxia AXM5500 in development
- Tested on Axxia AXM5500
- PCAP support tested on Raspberry Pi 2 Model B+

ARMv8 Functionality

- Huge page support
- PCI support (with kernel patch)
- Traffic through Physical NICS (82599) (2 x 10G ports)
- Should work on other NICS
 - As long as no unaligned memory access.
 - Other NICS not yet tested
- Compiles `igb_uio`, `kni` and all physical device PMDs.
- Tested on ThunderX server & X-Gene MP30-AR0



experience
what's inside™