HiWi Position: Smart NIC Measurements

Introduction

Smart NICs are an emerging technology to offload arbitrary computations and decisions on network packets to network hardware. As part of our research we are interested in measuring execution times for offloaded programs.

We offer:

- An exiting and challenging task related to a current research project

- A nice working atmosphere and collaboration in a motivated team

- Possibility to write a thesis afterwards (topics can be discussed individually)
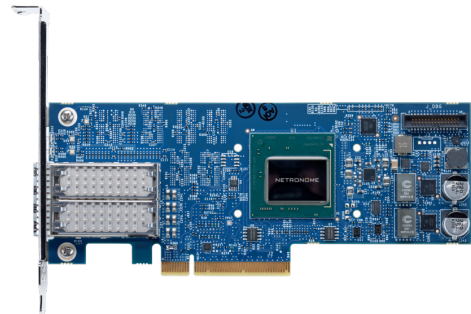
Your profile:

- **Programming** skills (preferably in C)

- Experience with **Linux** user-space and (optional) kernel-space

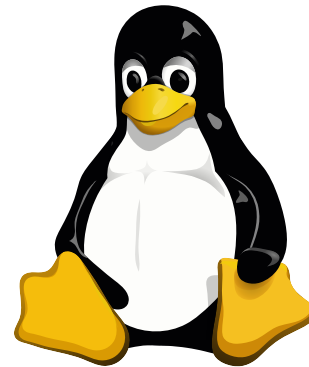- Willingness to learn the strange hardware details of the smart NIC

Figure 1: Smart NIC

Figure 2: Linux

Contact

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