- One embedded RISC processor
- Eight to sixteen programmable packet processors
- Multiple, independent onboard buses
- Processor synchronization mechanisms
- Shared and non-shared onboard memory
- One low-speed serial line interface
- Multiple interfaces for external memories
- Multiple interfaces for external I/O buses
- A coprocessor for hash computation and cryptography
- Other functional units

Figure 17.2 A list of the major facilities found on Intel's IXP2xxx network processor chip. In addition to the hardware facilities on the chip, the vendor offers a software development environment.