Cluster Computing on Low Power Microprocessors

ARM Chips use in Parallel Processing

Aims

- Investigate the use of ARM microprocessors as a low cost, low power solution for parallel problems

- Investigate the use of cluster computing frameworks to bring low power devices into competition with conventional computers

Technology

- Python webservers running a cluster computing framework

- Low Cost, Low Power Raspberry Pi Microprocessors

USP

- To provide a low power, low cost competitor to conventional parallel technology for use in applications where high power resources would be excessive