

Javier Setoain, ARM, UK

From embedded to HPC: How Arm became the standard for energy-efficient computation

Abstract: For many years now, Arm has been a de-facto standard when it comes to embedded processors for mobile devices. The power efficiency of Arm's designs make them an ideal solution for battery-powered compute. With the advent of the Exascale era of High Performance Computing, energy becomes a pressing issue in an area of computing characterized by its focus on raw performance, opening an opportunity for new design directions. What can Arm do in this space? How is Arm approaching a market that is looking more and more into energy efficiency but, at the same time, has very different objectives from those of the traditional embedded market? In this talk I will discuss the recent developments surrounding Arm in the High Performance Computing space, what is it that we do, and how we help our partners to succeed.