ARM Intelligent Power Allocation Software Training & Tuning Workshop

Summary:
This course covers the knowledge for integrating and tuning the Intelligent Power Allocation (IPA) thermal management solution on ARM/Linux system.

Prerequisites:
• Thorough knowledge of the ARMv7-A or ARMv8-A Architecture
• Familiarity with C and Python programming
• Knowledge of Linux kernel, especially on Linux thermal framework
• Knowledge of Android system and benchmarks
• Experience of CMOS power modelling is helpful but not essential

Audience:
This course is aimed at software developers who are trying to integrate IPA and tune IPA on ARM/Linux platform.

Length:
2 days

Modules
• ARM IPA Interpretation
• Generic Linux Thermal Framework Introduction and IPA Code Deep Dive
• ARM IPA Tools Introduction
  o ARM Workload Automation Framework
  o Ftrace
  o IPython Notebook
  o Trappy
  o Bart
• ARM IPA Thermal System Tuning
• ARM IPA Tuning Workshop
  o Tools Practicals
  o IPA Tuning Practicals