



## 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
  - ARM Workload Automation Framework
  - Ftrace
  - IPython Notebook
  - Trappy
  - Bart
- ARM IPA Thermal System Tuning
- ARM IPA Tuning Workshop
  - Tools Practicals
  - IPA Tuning Practicals