



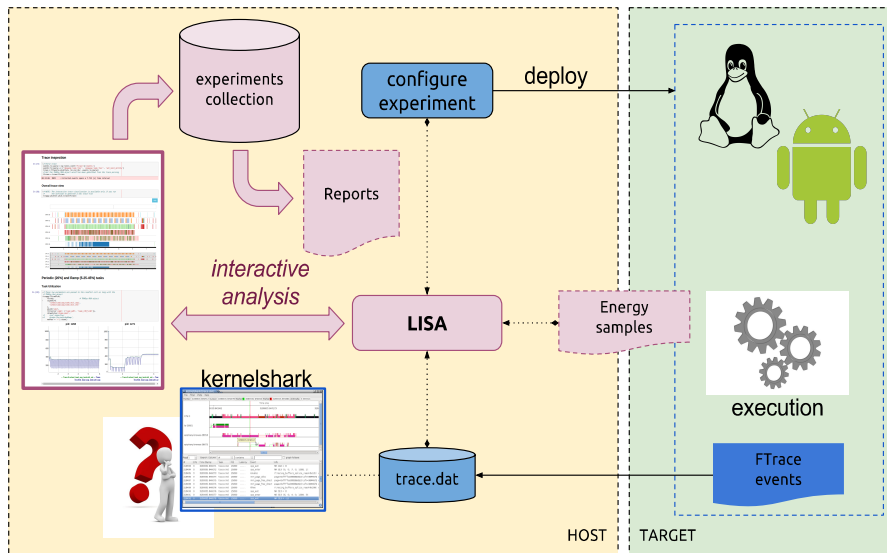
## LISA / TRAPpy / BART analysis tools

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### What is demonstrated

Trace Events Analysis using:

- LISA framework for running Linux tests
- TRAPpy trace events post-processing
- BART behavioral analysis



Classical flow vs LISA flow

### What was improved

New kernel analysis tools:

**LISA**<sup>[1,2]</sup>

**Linux Integrated System Analysis**

- Interactive analysis
- Regression tests
- Supports Linux & Android
- Focus on:
  - power management,
  - thermal and scheduler behaviors

**TRAPpy**<sup>[3]</sup>

**Trace Analysis & Plotting in python**

- Uses PANDAS for trace events analysis
- Customizable views and plotters
- Browser based (does not require X)

**BART**<sup>[4]</sup>

**Behavior Analysis & Regression Toolkit**

- Grammar defined assertions
- Support verification of kernel behaviors

### Source code or detail technical information availability

[1] <https://github.com/ARM-software/lisa>

[2] <https://github.com/ARM-software/devlib>

[3] <https://github.com/ARM-software/trappy>

[4] <https://github.com/ARM-software/bart>

### Hardware Information

ARM “Juno r2” Development board

2xCortex-A72

4xCortex-A53