Creating new workload for Workload Automation...

...and using it in LAVA

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Event
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Agenda

- Workload Automation - quick overview
- Workloads: Linux and Android
- Creating new workload
- Using WA in LAVA
Workload Automation

- Architecture
  - target (hardware abstraction)
  - workloads
  - result processors
  - resources
## Available workloads

### Linux
- cyclic test
- dhrystone
- ebizzy
- hackbench
- idle
- linpack-cli
- lmbench
- manual
- rt-app
- shellscript
- spec2000
- stream
- sysbench

### Android
- andebench
- androbench
- angrybirds
- angrybirds_rio
- anomaly2
- antutu
- applaunch
- audio
- bbench
- benchmarkpi
- caffeinemark
- cameracapture
- camerarecord
- castlebuilder
- castlemaster

### Other
- cfbench
- citadel
- dex2oat
- dungeondefenders
- facebook
- geekbench
- glbenchmark
- homescreen
- ironman3
- krazykart
- linpack
- nenamark
- nenamark
- quadrant
- ...
Creating new workload (design)

- what is the target (AOSP or Linux)
  - shells are different
  - connection might be important
- host only, or host/target setup
  - tools need to be available
- only foreground or background task involved
Creating new workload (__init__.py)

- setup and teardown
- workload execution
- workload parameters
Creating new workload (template)

- linux workload
- jinja2 templates used
- available variables
Creating new workload (UI automation)

- aosp workload
- UIAutomator scripts
WA in LAVA

• host/target architecture
  ○ host test
  ○ target test
  ○ synchronization

• available agenda files

• ways to extend and add new scenarios
Questions?

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