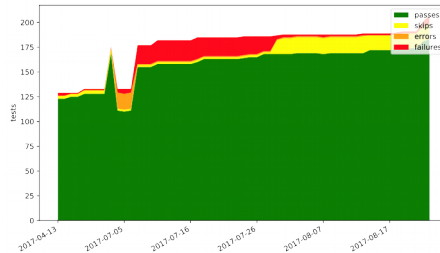




Longterm Embedded Linux: Testing & Field Update

labgrid: Test Automation Framework

- Board Control: Python Library
- Tests: pytest
- “Strategies”
Abstract States of Test Systems:



```
def test_linux_i2c_bus(target, in_shell):
    """Test if the /sys/bus/i2c exists and has the two subdevices i2c-0 and i2c-1"""
    fs = target.get_driver(HierarchyDriver)

    fs.have_bus("i2c")
    fs.bus_has_subdevice("i2c", "i2c-0")
    ,
```

labgrid.readthedocs.io

RAUC: Robust Auto Upgrade Controller

- Safe & Secure Updating
- Client Runs on Embedded Linux Device
- Atomic Update
- RAUC Bundles Signed (X.509)



rauc.io
rauc.readthedocs.io
github.com/rauc