

# App Performance \ Stability Testing & Analysis



Status

Completed



Testing resources that your app needs so that you can see on which devices it will work feasibly

## Types of iOS Application Testing

### Notes

## Launch Time

```
func testLaunchPerformance() {
    if #available(macOS 10.15, iOS 13.0, tvOS 13.0, *) {
        // This measures how long it takes to launch your application.
        measure(metrics: [XCTOSSignpostMetric.applicationLaunch]) {
            XCUIApplication().launch()
        }
    }
}
```

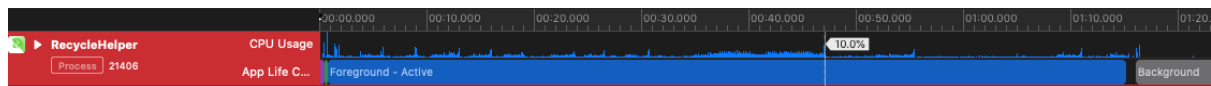
### Different Scenarios

<u>Aa</u> Test Case	# Average	# Standard Deviation	# Relative Standard Deviation
<u>Following average use of phone</u>	1.3844814	0.08515262	6.15050663%
<u>Having just turned phone on</u>	1.33867838	0.06429875	4.80315177%
<u>After force-quitting the app</u>	1.2994922	0.03083163	2.37259064%
<u>Having just used a large app</u>	1.405625	0.10783603	7.67174936%

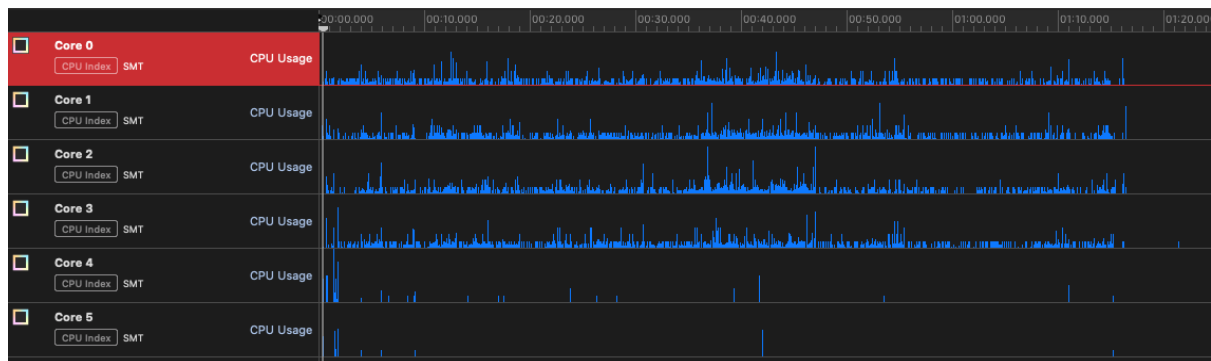
Aa Test Case	# Average	# Standard Deviation	# Relative Standard Deviation
<u>With multiple other apps open</u>	1.4683488	0.10773107	7.33688572%
<u>With a few (5) other apps open</u>	1.3972914	0.06209488	4.4439466%
<u>With no other apps open</u>	1.3226166	0.03140546	2.37449466%

## CPU and Thread Usage

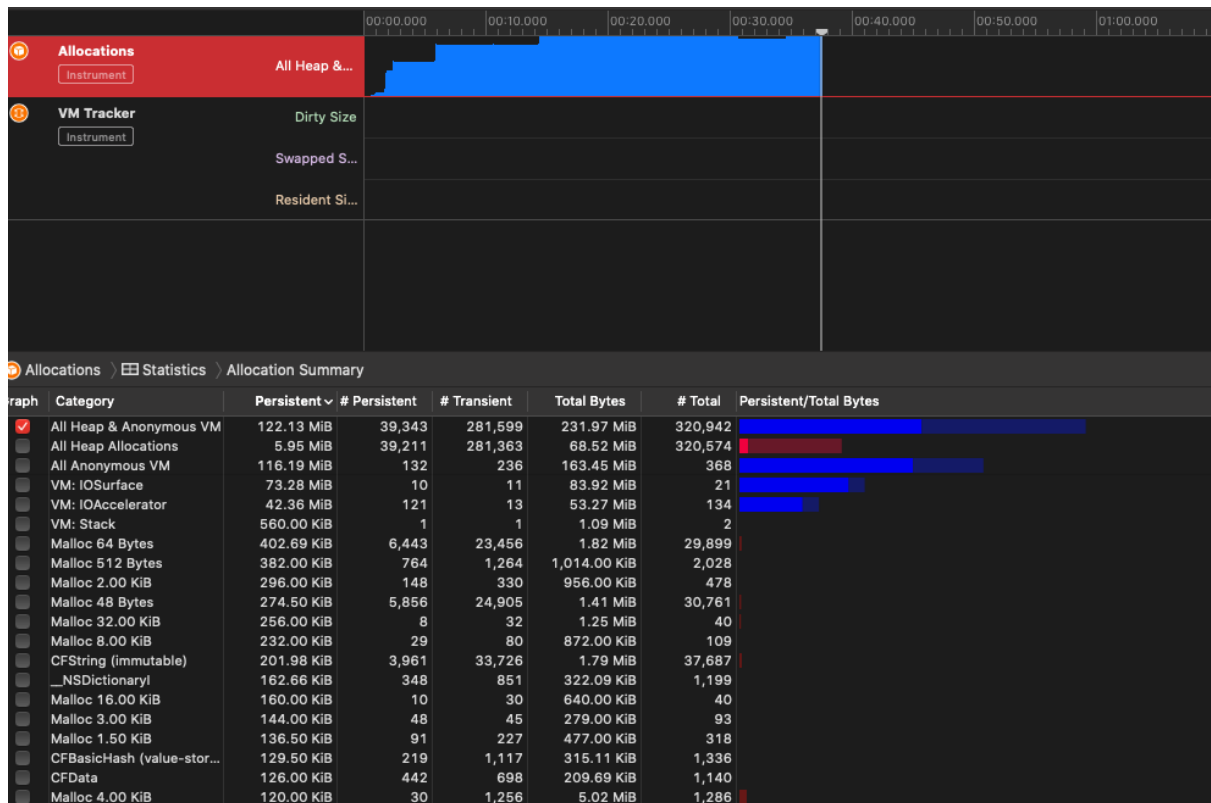
**Thread Usage:** single thread - large amount on the main thread can make the UI unresponsive or slow, but peak usage didn't rise over 10% other than right at the beginning



**CPU Usage:** load is mainly distributed over cores 0 to 3, with even distributions over these 4. This suggests good optimisation.



## Memory Usage



## Energy Usage

