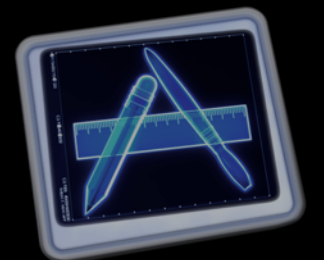


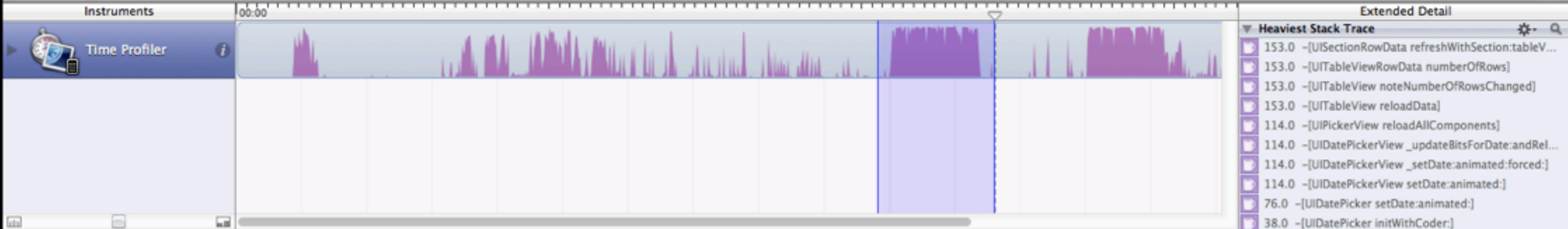
Effectively Using Instruments

Saul Mora
saul@magicalpanda.com
@casademora



The Secret to Using Instruments

Real Life Examples



Time Profiler

- Sample Perspective
 - All Sample Counts
 - Running Sample Times
- Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
- Call Tree Constraints
- Specific Data Mining

Running Time	Self	Symbol Name
153.0ms 6.5%	153.0	▶-[UISectionRowData refreshWithSection:tableView:tableViewRowData:] UIKit
60.0ms 2.5%	60.0	▶objc_msgSend libobjc.A.dylib
59.0ms 2.5%	59.0	▶__mtx_droplock libsystem_c.dylib
52.0ms 2.2%	52.0	▶szone_free_definite_size libsystem_c.dylib
51.0ms 2.1%	51.0	▶pthread_mutex_lock libsystem_c.dylib
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41.0ms 1.7%	41.0	▶szone_malloc_should_clear libsystem_c.dylib
38.0ms 1.6%	38.0	▶szone_size libsystem_c.dylib
38.0ms 1.6%	38.0	▶0x340c0bc4 libicucore.A.dylib
37.0ms 1.5%	37.0	▶strcpy libsystem_c.dylib
36.0ms 1.5%	36.0	▶strlen libsystem_c.dylib
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27.0ms 1.1%	27.0	▶free libsystem_c.dylib
25.0ms 1.0%	25.0	▶0x340c0acc libicucore.A.dylib
21.0ms 0.9%	21.0	▶0x340d2858 libicucore.A.dylib
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16.0ms 0.6%	16.0	▶strchr libsystem_c.dylib
15.0ms 0.6%	15.0	▶icu::UnicodeString::doCompare(int, unsigned short const*, int, int) const libicucore.A.dylib

Extended Detail

Heaviest Stack Trace

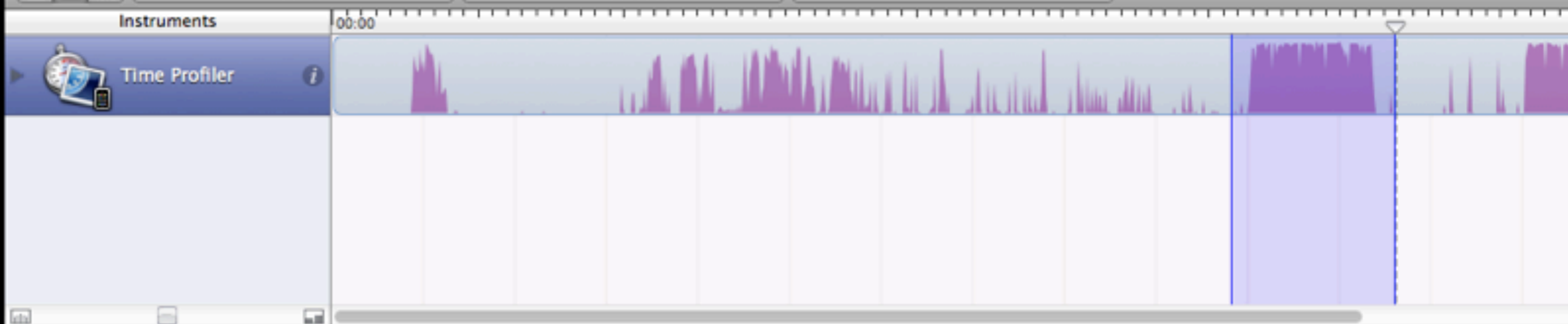
- 153.0 -[UISectionRowData refreshWithSection:tableView:tableViewRowData:]
- 153.0 -[UITableViewRowData numberOfRows]
- 153.0 -[UITableView noteNumberOfRowsChanged]
- 153.0 -[UITableView reloadData]
- 114.0 -[UIPickerView reloadData]
- 114.0 -[UIDatePickerView _updateBitsForDate:andRel...]
- 114.0 -[UIDatePickerView _setDate:animated:forced:]
- 114.0 -[UIDatePickerView setDate:animated:]
- 76.0 -[UIDatePicker setDate:animated:]
- 38.0 -[UIDatePicker initWithCoder:]
- 38.0 UINibDecoderDecodeObjectForValue
- 38.0 -[UINibDecoder decodeObjectForKey:]
- 38.0 -[UINavigationController initWithCoder:]
- 38.0 -[UINavigationController initWithCoder:]
- 38.0 UINibDecoderDecodeObjectForValue
- 38.0 UINibDecoderDecodeObjectForValue
- 38.0 -[UINibDecoder decodeObjectForKey:]
- 38.0 -[UINib instantiateWithOwner:options:]
- 38.0 -[UIViewController _loadViewFromNibNamed:b...]
- 38.0 -[UIViewController loadView]
- 38.0 -[UIViewController view]
- 38.0 -[UIViewController contentScrollView]
- 38.0 -[UINavigationController _computeAndApplyScr...]
- 38.0 -[UINavigationController _layoutViewController:]
- 38.0 -[UINavigationController _startTransition:fromV...]
- 38.0 -[UINavigationController _startDeferredTransiti...]
- 38.0 -[UINavigationController pushViewController:tr...]
- 38.0 -[UINavigationController pushViewController:an...]
- 38.0 -[MAOAddFlightViewController addSegmentTap...]
- 38.0 -[NSObject performSelector:withObject:withObject:]
- 38.0 -[UIApplication sendAction:to:from:forEvent:]
- 38.0 -[UIApplication sendAction:toTarget:fromSende...]
- 38.0 -[UIControl sendAction:to:forEvent:]
- 38.0 -[UIControl(Internal) _sendActionsForEvents:wit...]
- 38.0 -[UIControl touchesEnded:withEvent:]
- 38.0 -[UIWindow _sendTouchesForEvent:]
- 38.0 -[UIWindow sendEvent:]
- 38.0 -[UIApplication sendEvent:]
- 38.0 UIApplicationHandleEvent
- 38.0 PurpleEventCallback

Instruments2

Record Target: GroupA

Inspection Range: 00:00:37 Run 1 of 1

All Cores All Processes All Threads



Time Profiler Call Tree

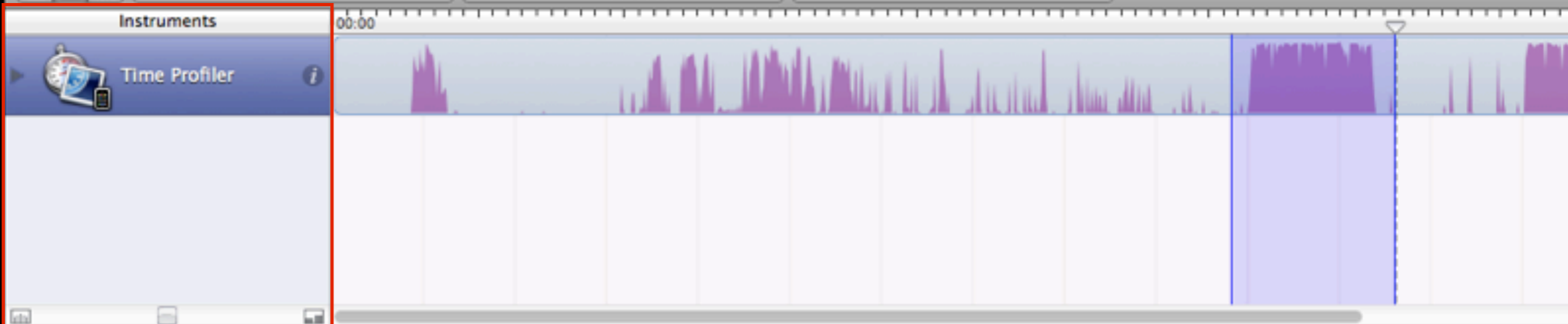
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20.0ms 0.8%	20.0	▶u_strlen libicucore.A.dylib
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18.0ms 0.7%	18.0	▶0x8007c2d8

Instruments2

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Time Profiler

Call Tree

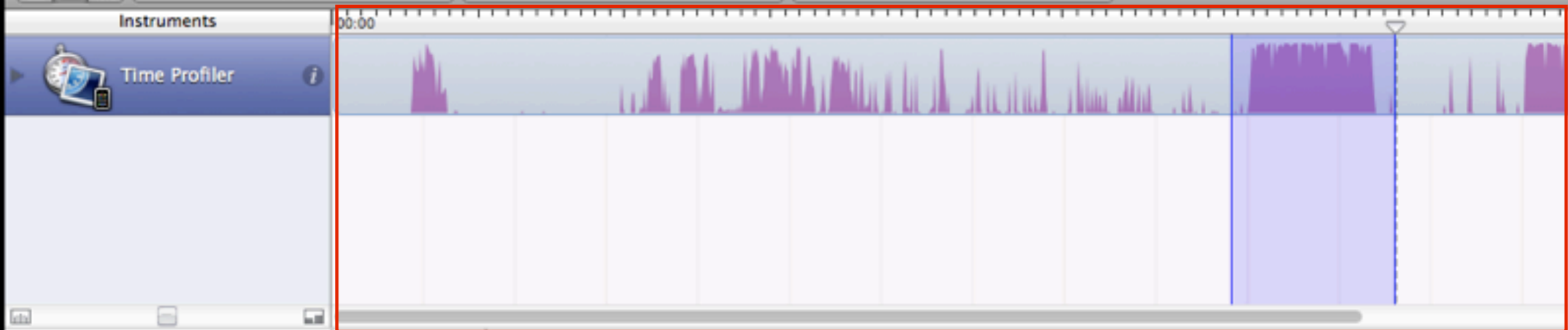
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Inspection Range: 00:00:37 Run 1 of 1

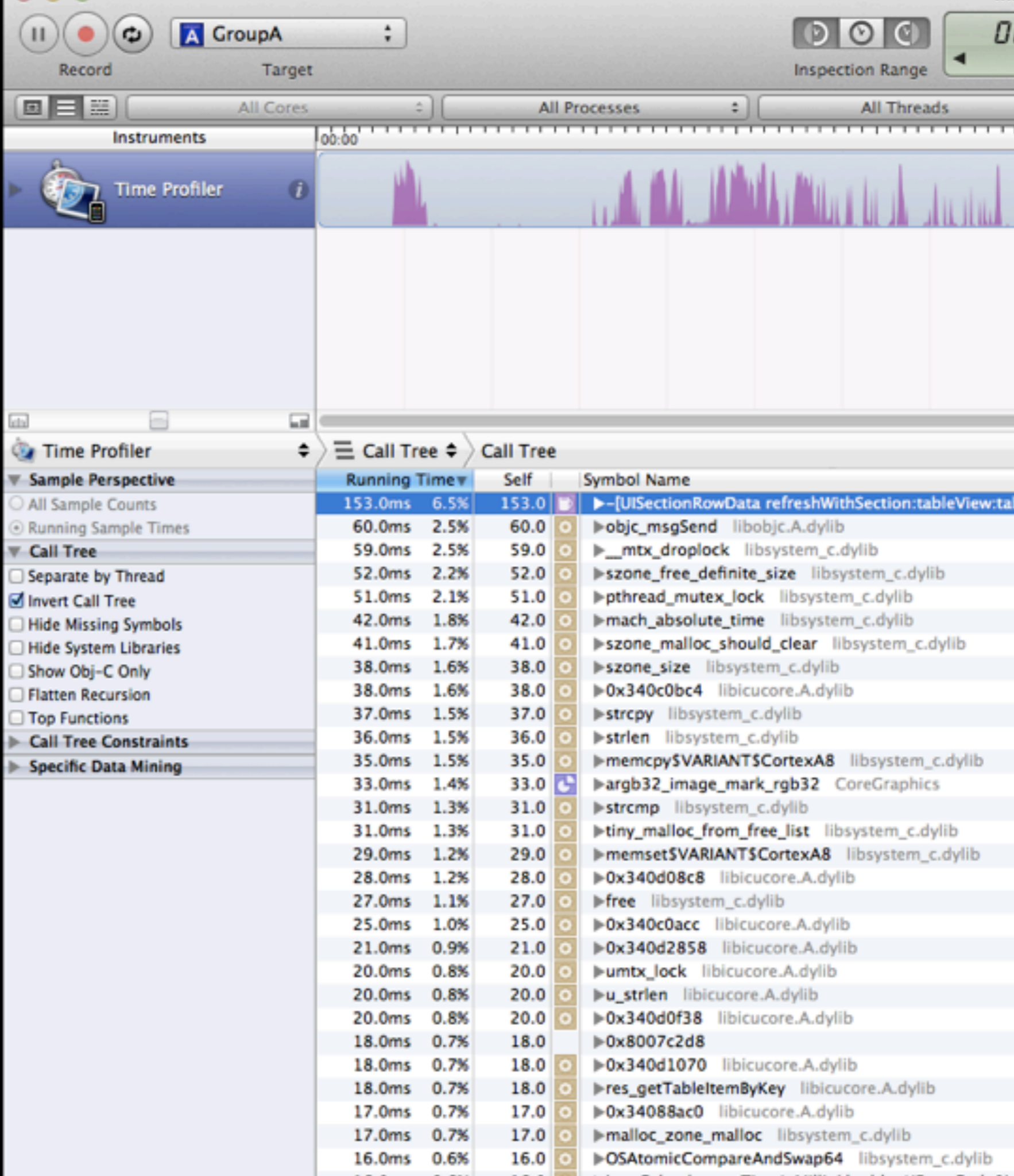
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Call Tree

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18.0ms 0.7%	18.0	▶0x8007c2d8



⏸ ⏹ 🔄 GroupA Target Inspection Range

All Cores All Processes All Threads

Instruments

🕒 **Time Profiler**

📄 **Call Tree** **Call Tree**

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17.0ms 0.7%	17.0	▶malloc_zone_malloc libsystem_c.dylib
16.0ms 0.6%	16.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib

Time Profiler

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Call Tree Call Tree

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38.0	-[UINibDecoder decodeObject]
38.0	-[UIRuntimeConnection initWithTarget:]
38.0	-[UIRuntimeEventConnection initWithTarget:]
38.0	UINibDecoderDecodeObject
38.0	UINibDecoderDecodeObject
38.0	-[UINibDecoder decodeObject]
38.0	-[UINib instantiateWithOwner:]
38.0	-[UIViewController _loadView]
38.0	-[UIViewController loadView]
38.0	-[UIViewController view]
38.0	-[UIViewController contentViewController]
38.0	-[UINavigationController _pushViewController]
38.0	-[UINavigationController _pushViewController]
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28.0ms 1.2%	28.0	▶0x340d08c8 libicucore.A.dylib
27.0ms 1.1%	27.0	▶free libsystem_c.dylib
25.0ms 1.0%	25.0	▶0x340c0acc libicucore.A.dylib
21.0ms 0.9%	21.0	▶0x340d2858 libicucore.A.dylib
20.0ms 0.8%	20.0	▶umtx_lock libicucore.A.dylib
20.0ms 0.8%	20.0	▶u_strlen libicucore.A.dylib
20.0ms 0.8%	20.0	▶0x340d0f38 libicucore.A.dylib
18.0ms 0.7%	18.0	▶0x8007c2d8
18.0ms 0.7%	18.0	▶0x340d1070 libicucore.A.dylib
18.0ms 0.7%	18.0	▶res_getTableItemByKey libicucore.A.dylib
17.0ms 0.7%	17.0	▶0x34088ac0 libicucore.A.dylib
17.0ms 0.7%	17.0	▶malloc_zone_malloc libsystem_c.dylib
16.0ms 0.6%	16.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib
16.0ms 0.6%	16.0	▶icu::Calendar::setTimeInMillis(double, UErrorCode&) libicucore.A.dylib
16.0ms 0.6%	16.0	▶0x340c0a28 libicucore.A.dylib
16.0ms 0.6%	16.0	▶strchr libsystem_c.dylib
15.0ms 0.6%	15.0	▶icu::UnicodeString::doCompare(int, int, unsigned short const*, int, int) const libicucore.A.dylib

153.0	-[UITableView reloadData]
114.0	-[UIPickerView reloadData]
114.0	-[UIDatePickerView _updateDate]
114.0	-[UIDatePickerView setDate]
114.0	-[UIDatePickerView setDate]
76.0	-[UIDatePicker setDate:animated]
38.0	-[UIDatePicker initWithCoder:]
38.0	UINibDecoderDecodeObject
38.0	-[UINibDecoder decodeObject]
38.0	-[UIRuntimeConnection initWithTarget:]
38.0	-[UIRuntimeEventConnection initWithTarget:]
38.0	UINibDecoderDecodeObject
38.0	UINibDecoderDecodeObject
38.0	-[UINibDecoder decodeObject]
38.0	-[UINib instantiateWithOwner:]
38.0	-[UIViewController loadViewIfRequired]
38.0	-[UIViewController loadView]
38.0	-[UIViewController view]
38.0	-[UIViewController contentView]
38.0	-[UINavigationController _startTransition]
38.0	-[UINavigationController _startTransition]
38.0	-[UINavigationController _startTransition]
38.0	-[UINavigationController _startTransition]
38.0	-[UINavigationController _startTransition]
38.0	-[UINavigationController _startTransition]
38.0	-[MAOAddFlightViewControll...
38.0	-[NSObject performSelector:withObject:]
38.0	-[UIApplication sendAction:toTarget:fromSender:withState:]
38.0	-[UIApplication sendAction:toTarget:fromSender:withState:]
38.0	-[UIControl sendAction:toTarget:fromSender:withState:]
38.0	-[UIControl(internal) _sendAction:toTarget:fromSender:withState:]
38.0	-[UIControl touchesEnded]
38.0	-[UIWindow _sendTouchesToWindow]
38.0	-[UIWindow sendEvent:]
38.0	-[UIApplication sendEvent:]
38.0	_UIApplicationHandleEvent
38.0	PurpleEventCallback

00:00:37

Run 1 of 1

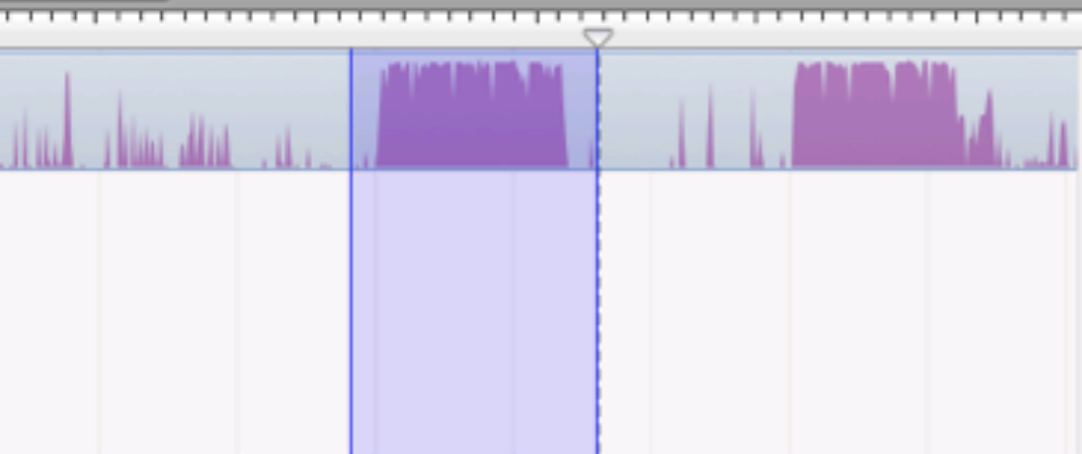


View

Library

Q Involves Symbol

Search



View: tableViewRowData: UIKit

Extended Detail

Heaviest Stack Trace

- 153.0 -[UISectionRowData refreshWithSection:tableV...
- 153.0 -[UITableViewRowData numberOfRows]
- 153.0 -[UITableView noteNumberOfRowsChanged]
- 153.0 -[UITableView reloadData]
- 114.0 -[UIPickerView reloadData]
- 114.0 -[UIDatePickerView _updateBitsForDate:andRel...
- 114.0 -[UIDatePickerView _setDate:animated:forced:]
- 114.0 -[UIDatePickerView setDate:animated:]
- 76.0 -[UIDatePicker setDate:animated:]
- 38.0 -[UIDatePicker initWithCoder:]
- 38.0 UINibDecoderDecodeObjectForValue
- 38.0 -[UINibDecoder decodeObjectForKey:]
- 38.0 -[UIRuntimeConnection initWithCoder:]
- 38.0 -[UIRuntimeEventConnection initWithCoder:]
- 38.0 UINibDecoderDecodeObjectForValue
- 38.0 UINibDecoderDecodeObjectForValue
- 38.0 -[UINibDecoder decodeObjectForKey:]
- 38.0 -[UINib instantiateWithOwner:options:]
- 38.0 -[UIViewController _loadViewFromNibNamed:b...
- 38.0 -[UIViewController loadView]
- 38.0 -[UIViewController view]
- 38.0 -[UIViewController contentScrollView]
- 38.0 -[UINavigationController _computeAndApplyScr...
- 38.0 -[UINavigationController _layoutViewController:]
- 38.0 -[UINavigationController _startTransition:fromV...
- 38.0 -[UINavigationController _startDeferredTransiti...
- 38.0 -[UINavigationController pushViewController:tr...
- 38.0 -[UINavigationController pushViewController:an...
- 38.0 -[MAOAddFlightViewController addSegmentTap...
- 38.0 -[NSObject performSelector:withObject:withObject:]
- 38.0 -[UIApplication sendAction:to:from:forEvent:]
- 38.0 -[UIApplication sendAction:toTarget:fromSende...
- 38.0 -[UIControl sendAction:to:forEvent:]
- 38.0 -[UIControl(Internal) _sendActionsForEvents:wit...
- 38.0 -[UIControl touchesEnded:withEvent:]
- 38.0 -[UIWindow _sendTouchesForEvent:]
- 38.0 -[UIWindow sendEvent:]
- 38.0 -[UIApplication sendEvent:]
- 38.0 _UIApplicationHandleEvent
- 38.0 PurpleEventCallback

dylib

Code&) libcucore.A.dylib

ned short const* int int) const libcucore.A.dylib

00:00:37

Run 1 of 1

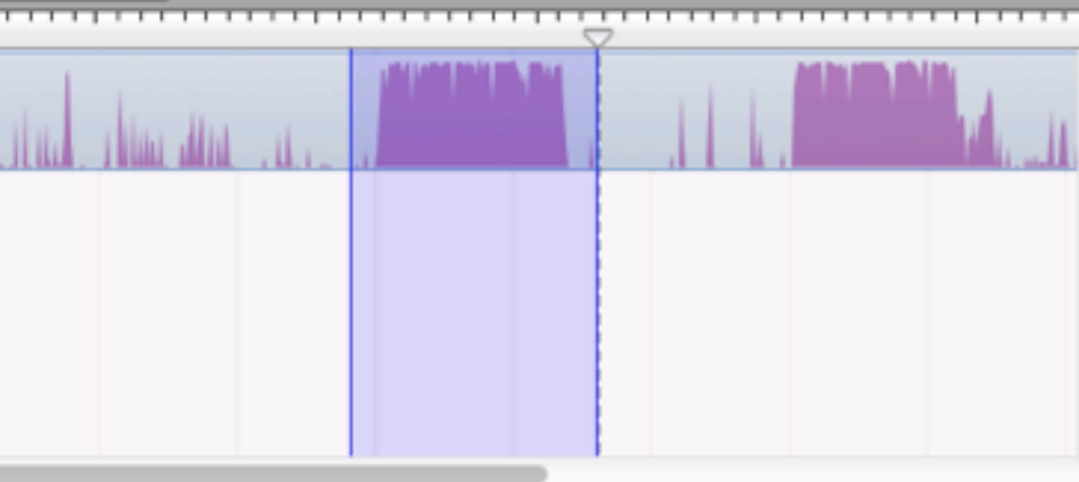


View

Library

Q Involves Symbol

Search



View: tableViewRowData: UIKit

Extended Detail

- Heaviest Stack Trace
- 153.0 -[UISectionRowData refreshWithSection:tableV...
 - 153.0 -[UITableViewRowData numberOfRows]
 - 153.0 -[UITableView noteNumberOfRowsChanged]
 - 153.0 -[UITableView reloadData]
 - 114.0 -[UIPickerView reloadData]
 - 114.0 -[UIDatePickerView _updateBitsForDate:andRel...
 - 114.0 -[UIDatePickerView _setDate:animated:forced:]
 - 114.0 -[UIDatePickerView setDate:animated:]
 - 76.0 -[UIDatePicker setDate:animated:]
 - 38.0 -[UIDatePicker initWithCoder:]
 - 38.0 UINibDecoderDecodeObjectForValue
 - 38.0 -[UINibDecoder decodeObjectForKey:]
 - 38.0 -[UIRuntimeConnection initWithCoder:]
 - 38.0 -[UIRuntimeEventConnection initWithCoder:]
 - 38.0 UINibDecoderDecodeObjectForValue
 - 38.0 UINibDecoderDecodeObjectForValue
 - 38.0 -[UINibDecoder decodeObjectForKey:]
 - 38.0 -[UINib instantiateWithOwner:options:]
 - 38.0 -[UIViewController _loadViewFromNibNamed:b...
 - 38.0 -[UIViewController loadView]
 - 38.0 -[UIViewController view]
 - 38.0 -[UIViewController contentScrollView]
 - 38.0 -[UINavigationController _computeAndApplyScr...
 - 38.0 -[UINavigationController _layoutViewController:]
 - 38.0 -[UINavigationController _startTransition:fromV...
 - 38.0 -[UINavigationController _startDeferredTransiti...
 - 38.0 -[UINavigationController pushViewController:tr...
 - 38.0 -[UINavigationController pushViewController:an...
 - 38.0 -[MAOAddFlightViewController addSegmentTap...
 - 38.0 -[NSObject performSelector:withObject:withObject:]
 - 38.0 -[UIApplication sendAction:to:from:forEvent:]
 - 38.0 -[UIApplication sendAction:toTarget:fromSende...
 - 38.0 -[UIControl sendAction:to:forEvent:]
 - 38.0 -[UIControl(Internal) _sendActionsForEvents:wit...
 - 38.0 -[UIControl touchesEnded:withEvent:]
 - 38.0 -[UIWindow _sendTouchesForEvent:]
 - 38.0 -[UIWindow sendEvent:]
 - 38.0 -[UIApplication sendEvent:]
 - 38.0 _UIApplicationHandleEvent
 - 38.0 PurpleEventCallback

dylib

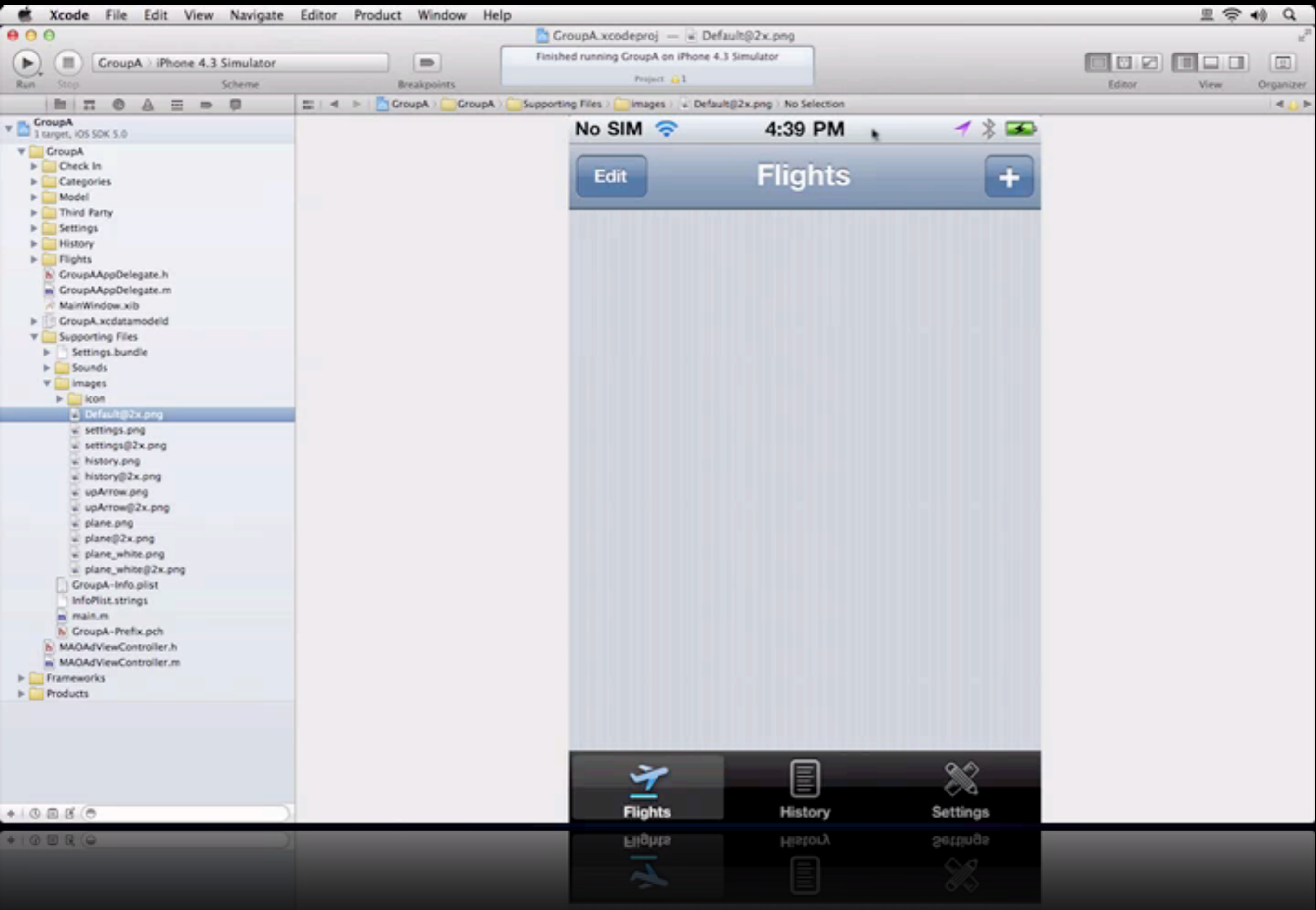
Code&) libcucore.A.dylib

ned short const* int int) const libcucore.A.dylib

Time Profiler







iPod



3:58 PM



Group A



Messages



Mail



Safari



Music



GroupA > iPhone 4.3 Simulator

Scheme

Breakpoints



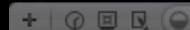
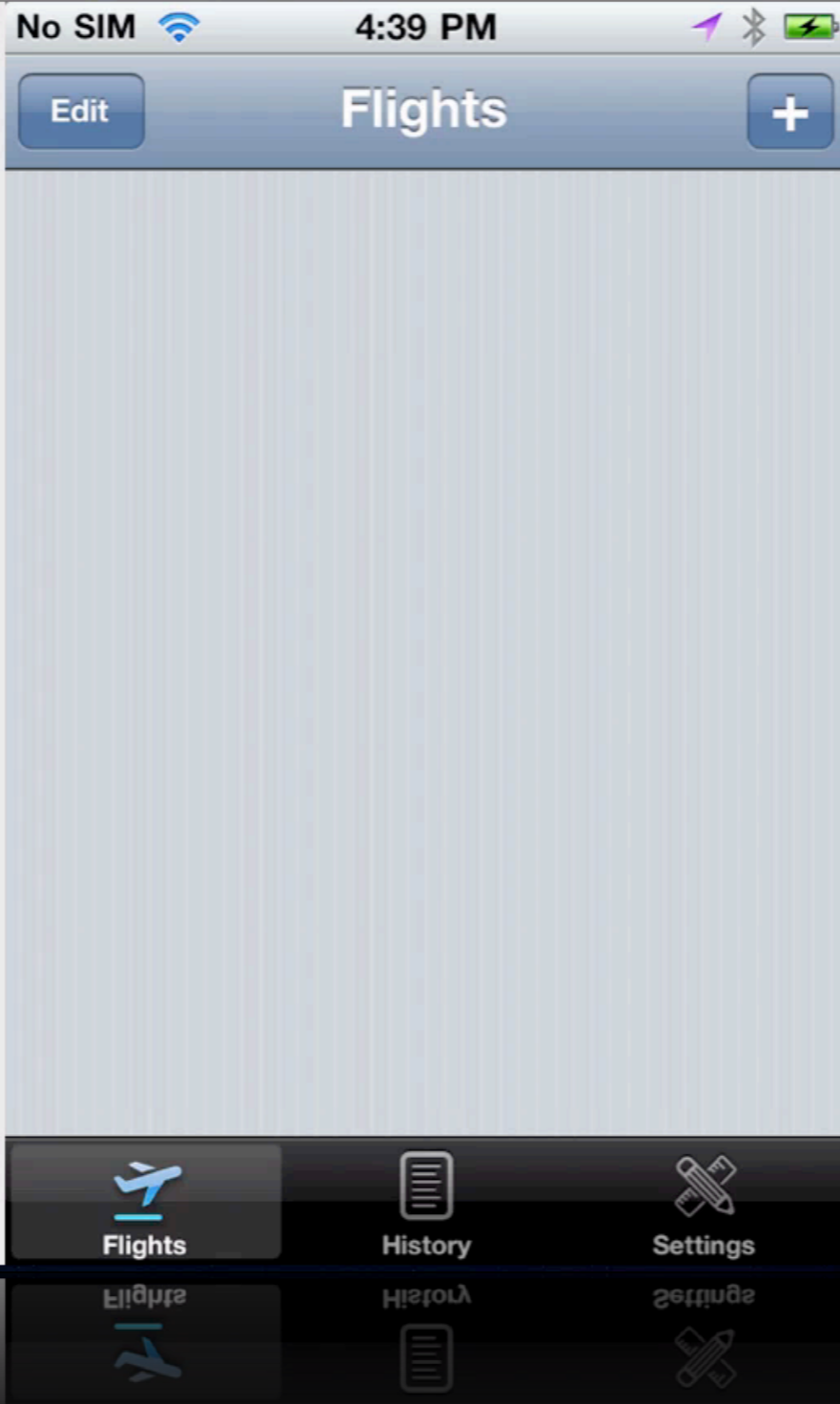
Editor

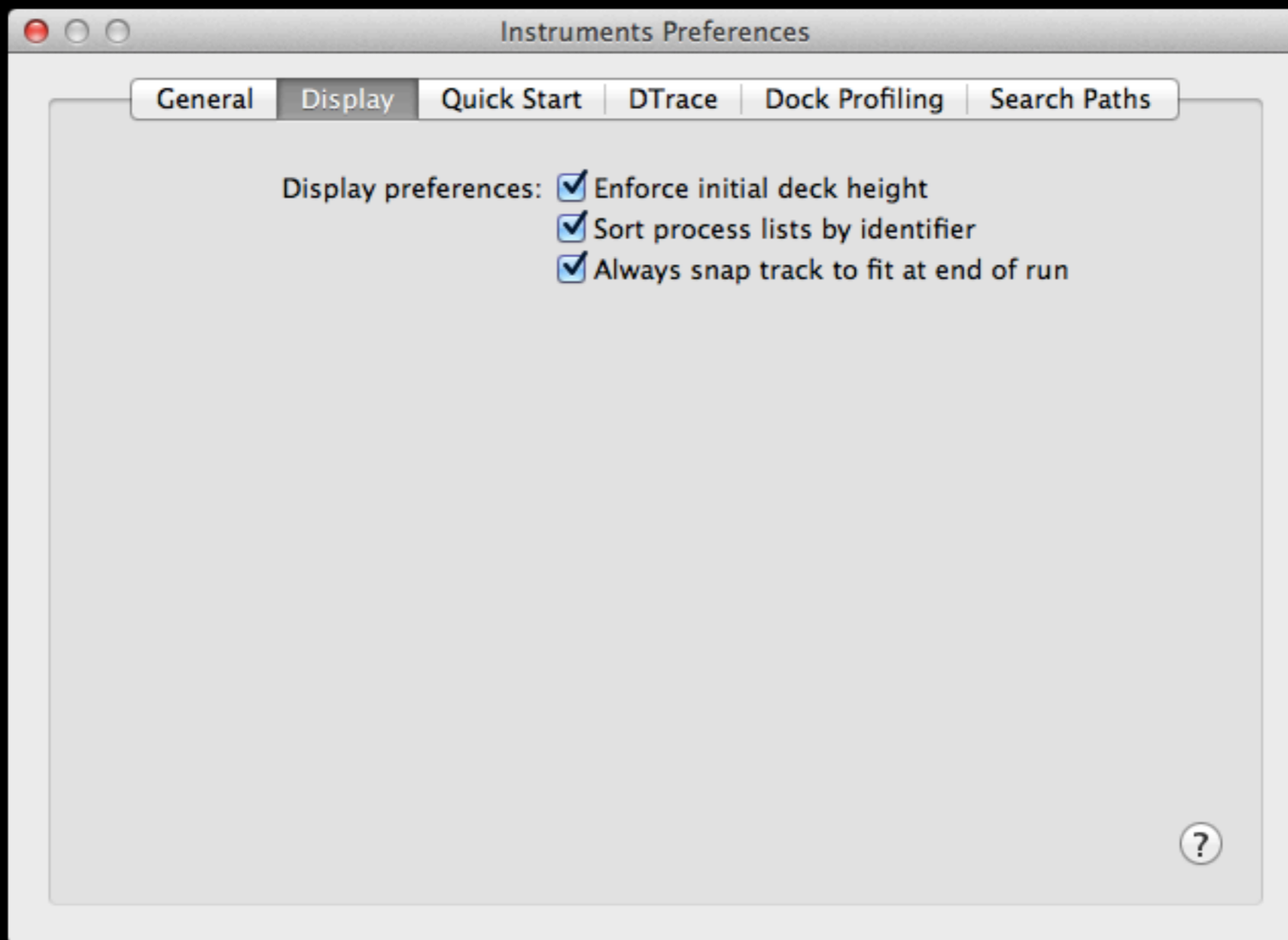
View

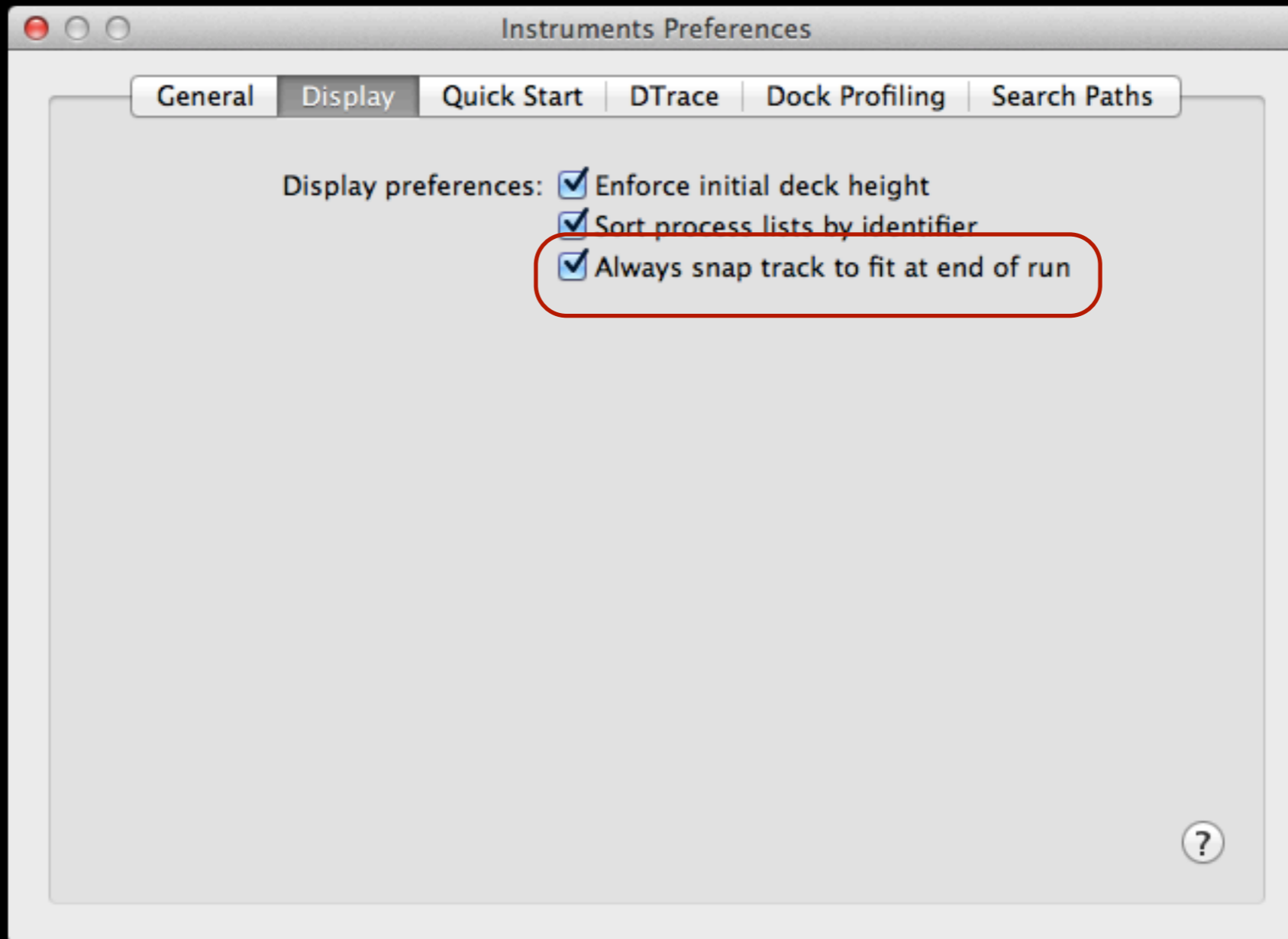
Organizer

GroupA > GroupA > Supporting Files > images > Default@2x.png > No Selection

- GroupA
1 target, iOS SDK 5.0
 - GroupA
 - Check In
 - Categories
 - Model
 - Third Party
 - Settings
 - History
 - Flights
 - GroupAppDelegate.h
 - GroupAppDelegate.m
 - MainWindow.xib
 - GroupA.xcdatamodeld
 - Supporting Files
 - Settings.bundle
 - Sounds
 - images
 - icon
 - Default@2x.png
 - settings.png
 - settings@2x.png
 - history.png
 - history@2x.png
 - upArrow.png
 - upArrow@2x.png
 - plane.png
 - plane@2x.png
 - plane_white.png
 - plane_white@2x.png
 - GroupA-Info.plist
 - InfoPlist.strings
 - main.m
 - GroupA-Prefix.pch
 - MAOAdViewController.h
 - MAOAdViewController.m
 - Frameworks
 - Products





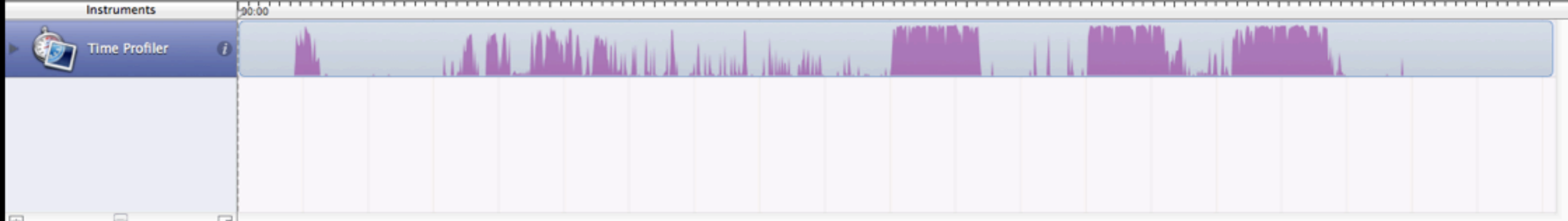


GroupA Time Profiler

Record Target GroupA Inspection Range 00:00:37 Run 1 of 1 View Library

Search Involves Symbol

All Cores All Processes All Threads



Time Profiler Call Tree

Sample Perspective	Running Time	Self	Symbol Name
<input type="radio"/> All Sample Counts	450.0ms 4.2%	450.0	↳-[UISectionRowData refreshWithSection:tableView:tableViewRowData:] UIKit
<input type="radio"/> Running Sample Times	351.0ms 3.2%	351.0	↳objc_msgSend libobjc.A.dylib
<input checked="" type="radio"/> Call Tree	255.0ms 2.3%	255.0	↳0x8007c2d8
<input type="checkbox"/> Separate by Thread	186.0ms 1.7%	186.0	↳szone_free_definite_size libsystem_c.dylib
<input checked="" type="checkbox"/> Invert Call Tree	169.0ms 1.5%	169.0	↳__mtx_droplock libsystem_c.dylib
<input type="checkbox"/> Hide Missing Symbols	154.0ms 1.4%	154.0	↳mach_absolute_time libsystem_c.dylib
<input type="checkbox"/> Hide System Libraries	152.0ms 1.4%	152.0	↳pthread_mutex_lock libsystem_c.dylib
<input type="checkbox"/> Show Obj-C Only	143.0ms 1.3%	143.0	↳strcpy libsystem_c.dylib
<input type="checkbox"/> Flatten Recursion	141.0ms 1.3%	141.0	↳tiny_malloc_from_free_list libsystem_c.dylib
<input type="checkbox"/> Top Functions	135.0ms 1.2%	135.0	↳szone_malloc_should_clear libsystem_c.dylib
<input checked="" type="checkbox"/> Call Tree Constraints	133.0ms 1.2%	133.0	↳JSC::Yarr::Interpreter::matchDisjunction(JSC::Yarr::ByteDisjunction*, JSC::Yarr::Interpreter::DisjunctionContext*, bool) JavaScriptCore
<input checked="" type="checkbox"/> Specific Data Mining	133.0ms 1.2%	133.0	↳strlen libsystem_c.dylib
	131.0ms 1.2%	131.0	↳memcpy\$VARIANT\$CortexA8 libsystem_c.dylib
	128.0ms 1.1%	128.0	↳szone_size libsystem_c.dylib
	108.0ms 1.0%	108.0	↳0x340c0bc4 libicucore.A.dylib
	107.0ms 1.0%	107.0	↳memset\$VARIANT\$CortexA8 libsystem_c.dylib
	105.0ms 0.9%	105.0	↳strcmp libsystem_c.dylib
	98.0ms 0.9%	98.0	↳argb32_image_mark_rgb32 CoreGraphics
	93.0ms 0.8%	93.0	↳0x340d2858 libicucore.A.dylib
	85.0ms 0.7%	85.0	↳free libsystem_c.dylib
	81.0ms 0.7%	81.0	↳0x340d1070 libicucore.A.dylib
	74.0ms 0.6%	74.0	↳0x340d08c8 libicucore.A.dylib
	68.0ms 0.6%	68.0	↳0x340c0acc libicucore.A.dylib
	61.0ms 0.5%	61.0	↳tiny_free_list_add_ptr libsystem_c.dylib
	59.0ms 0.5%	59.0	↳pthread_mutex_unlock libsystem_c.dylib
	59.0ms 0.5%	59.0	↳malloc_zone_malloc libsystem_c.dylib
	58.0ms 0.5%	58.0	↳objc::DenseMap<objc_object*, unsigned long, true, objc::DenseMapInfo<objc_object*>, objc::DenseMapInfo<unsigned long> >::LookupBucketFor(objc_object* const&, std::pair<objc_object*, unsigned long> const&) JavaScriptCore
	56.0ms 0.5%	56.0	↳spin_lock\$VARIANT\$Sup libsystem_c.dylib
	53.0ms 0.4%	53.0	↳res_getTableItemByKey libicucore.A.dylib
	53.0ms 0.4%	53.0	↳OSAtomicCompareAndSwap64 libsystem_c.dylib
	52.0ms 0.4%	52.0	↳_ZL18search_method_list_tP13objc_selector libobjc.A.dylib
	52.0ms 0.4%	52.0	↳JSC::Interpreter::privateExecute(JSC::Interpreter::ExecutionFlag, JSC::RegisterFile*, JSC::ExecState*) JavaScriptCore
	51.0ms 0.4%	51.0	↳bu_strlen libicucore.A.dylib

Instruments2

00:00:37 Run 1 of 1

GroupA Target

Inspection Range View Library

Involves Symbol Search

All Cores All Processes All Threads



- Time Profiler
- Sample Perspective
 - All Sample Counts
 - Running Sample Times
 - Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
 - Call Tree Constraints
 - Specific Data Mining

Call Tree

Running Time	Self	Symbol Name
450.0ms 4.2%	450.0	▶-[UISectionRowData refreshWithSection:tableView:tableViewRowData:] UIKit
351.0ms 3.2%	351.0	▶objc_msgSend libobjc.A.dylib
255.0ms 2.3%	255.0	▶0x8007c2d8
186.0ms 1.7%	186.0	▶szone_free_definite_size libsystem_c.dylib
169.0ms 1.5%	169.0	▶_mtx_dropllock libsystem_c.dylib
154.0ms 1.4%	154.0	▶mach_absolute_time libsystem_c.dylib
152.0ms 1.4%	152.0	▶pthread_mutex_lock libsystem_c.dylib
143.0ms 1.3%	143.0	▶strcpy libsystem_c.dylib
141.0ms 1.3%	141.0	▶tiny_malloc_from_free_list libsystem_c.dylib
135.0ms 1.2%	135.0	▶szone_malloc_should_clear libsystem_c.dylib
133.0ms 1.2%	133.0	▶JSC::Yarr::Interpreter::matchDisjunction(JSC::Yarr::ByteDisjunction*, JSC::Yarr::Interpreter::DisjunctionContext*, bool) JavaScriptCore
133.0ms 1.2%	133.0	▶strlen libsystem_c.dylib
131.0ms 1.2%	131.0	▶memcpy\$VARIANTSCortexA8 libsystem_c.dylib
128.0ms 1.1%	128.0	▶szone_size libsystem_c.dylib
108.0ms 1.0%	108.0	▶0x340c0bc4 libicucore.A.dylib
107.0ms 1.0%	107.0	▶memset\$VARIANTSCortexA8 libsystem_c.dylib
105.0ms 0.9%	105.0	▶strcmp libsystem_c.dylib
98.0ms 0.9%	98.0	▶argb32_image_mark_rgb32 CoreGraphics
93.0ms 0.8%	93.0	▶0x340d2858 libicucore.A.dylib
85.0ms 0.7%	85.0	▶free libsystem_c.dylib
81.0ms 0.7%	81.0	▶0x340d1070 libicucore.A.dylib
74.0ms 0.6%	74.0	▶0x340d08c8 libicucore.A.dylib
68.0ms 0.6%	68.0	▶0x340c0acc libicucore.A.dylib
61.0ms 0.5%	61.0	▶tiny_free_list_add_ptr libsystem_c.dylib
59.0ms 0.5%	59.0	▶malloc_zone_malloc libsystem_c.dylib
59.0ms 0.5%	59.0	▶pthread_mutex_unlock libsystem_c.dylib
58.0ms 0.5%	58.0	▶objc::DenseMap<objc_object*, unsigned long, true, objc::DenseMapInfo<objc_object*>, objc::DenseMapInfo<unsigned long>>::LookupBucketFor(objc_object* const&, std::pair<objc_object*, unsigned long> const&) const objc
56.0ms 0.5%	56.0	▶spin_lock\$VARIANTSup libsystem_c.dylib
53.0ms 0.4%	53.0	▶res_getTableItemByKey libicucore.A.dylib
53.0ms 0.4%	53.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib
52.0ms 0.4%	52.0	▶_ZL18search_method_listPK13method_list_tP13objc_selector libobjc.A.dylib
52.0ms 0.4%	52.0	▶JSC::Interpreter::privateExecute(JSC::Interpreter::ExecutionFlag, JSC::RegisterFile*, JSC::ExecState*) JavaScriptCore
51.0ms 0.4%	51.0	▶_umtx_lock libicucore.A.dylib

21.0ms 0.4% ▶_mtx_lock libicucore.A.dylib

25.0ms 0.4% ▶JSC::Interpreter::privateExecute(JSC::Interpreter::ExecutionFlag, JSC::RegisterFile*, JSC::ExecState*) JavaScriptCore

25.0ms 0.4% ▶_ZL18search_method_listPK13method_list_tP13objc_selector libobjc.A.dylib

23.0ms 0.4% ▶OSAtomicCompareAndSwap64 libsystem_c.dylib

23.0ms 0.4% ▶res_getTableItemByKey libicucore.A.dylib

22.0ms 0.4% ▶spin_lock\$VARIANTSup libsystem_c.dylib

22.0ms 0.4% ▶objc::DenseMap<objc_object*, unsigned long, true, objc::DenseMapInfo<objc_object*>, objc::DenseMapInfo<unsigned long>>::LookupBucketFor(objc_object* const&, std::pair<objc_object*, unsigned long> const&) const objc

Instruments2
00:00:37
Run 1 of 1
GroupA
Involves Symbol
Search

All Cores All Processes All Threads



- Time Profiler
- Sample Perspective
 - All Sample Counts
 - Running Sample Times
 - Call Tree
- Separate by Thread
- Invert Call Tree
- Hide Missing Symbols
- Hide System Libraries
- Show Obj-C Only
- Flatten Recursion
- Top Functions
- Call Tree Constraints
- Specific Data Mining

Running Time	Self	Symbol Name
450.0ms 4.2%	450.0	▶-[UISectionRowData refreshWithSection:tableView:tableViewRowData:] UIKit
351.0ms 3.2%	351.0	▶objc_msgSend libobjc.A.dylib
255.0ms 2.3%	255.0	▶0x8007c2d8
186.0ms 1.7%	186.0	▶szone_free_definite_size libsystem_c.dylib
169.0ms 1.5%	169.0	▶_mtx_dropllock libsystem_c.dylib
154.0ms 1.4%	154.0	▶mach_absolute_time libsystem_c.dylib
152.0ms 1.4%	152.0	▶pthread_mutex_lock libsystem_c.dylib
143.0ms 1.3%	143.0	▶strcpy libsystem_c.dylib
141.0ms 1.3%	141.0	▶tiny_malloc_from_free_list libsystem_c.dylib
135.0ms 1.2%	135.0	▶szone_malloc_should_clear libsystem_c.dylib
133.0ms 1.2%	133.0	▶JSC::Yarr::Interpreter::matchDisjunction(JSC::Yarr::ByteDisjunction*, JSC::Yarr::Interpreter::DisjunctionContext*, bool) JavaScriptCore
133.0ms 1.2%	133.0	▶strlen libsystem_c.dylib
131.0ms 1.2%	131.0	▶memcpy\$VARIANTSCortexA8 libsystem_c.dylib
128.0ms 1.1%	128.0	▶szone_size libsystem_c.dylib
108.0ms 1.0%	108.0	▶0x340c0bc4 libicucore.A.dylib
107.0ms 1.0%	107.0	▶memset\$VARIANTSCortexA8 libsystem_c.dylib
105.0ms 0.9%	105.0	▶strcmp libsystem_c.dylib
98.0ms 0.9%	98.0	▶argb32_image_mark_rgb32 CoreGraphics
93.0ms 0.8%	93.0	▶0x340d2858 libicucore.A.dylib
85.0ms 0.7%	85.0	▶free libsystem_c.dylib
81.0ms 0.7%	81.0	▶0x340d1070 libicucore.A.dylib
74.0ms 0.6%	74.0	▶0x340d08c8 libicucore.A.dylib
68.0ms 0.6%	68.0	▶0x340c0acc libicucore.A.dylib
61.0ms 0.5%	61.0	▶tiny_free_list_add_ptr libsystem_c.dylib
59.0ms 0.5%	59.0	▶malloc_zone_malloc libsystem_c.dylib
59.0ms 0.5%	59.0	▶pthread_mutex_unlock libsystem_c.dylib
58.0ms 0.5%	58.0	▶objc::DenseMap<objc_object*, unsigned long, true, objc::DenseMapInfo<objc_object*>, objc::DenseMapInfo<unsigned long>>::LookupBucketFor(objc_object* const&, std::pair<objc_object*, unsigned long> const&) JavaScriptCore
56.0ms 0.5%	56.0	▶spin_lock\$VARIANTSup libsystem_c.dylib
53.0ms 0.4%	53.0	▶res_getTableItemByKey libicucore.A.dylib
53.0ms 0.4%	53.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib
52.0ms 0.4%	52.0	▶_ZL18search_method_listPK13method_list_tP13objc_selector libobjc.A.dylib
52.0ms 0.4%	52.0	▶JSC::Interpreter::privateExecute(JSC::Interpreter::ExecutionFlag, JSC::RegisterFile*, JSC::ExecState*) JavaScriptCore
51.0ms 0.4%	51.0	▶_umtx_lock libicucore.A.dylib

Instruments2

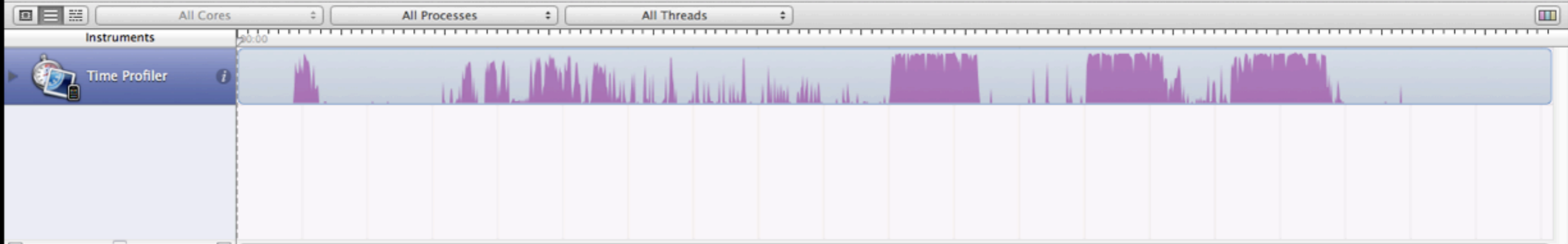
Record Target: GroupA

Inspection Range: 00:00:37 Run 1 of 1

View Library

Search: Involves Symbol

All Cores All Processes All Threads



Time Profiler Call Tree

Sample Perspective	Running Time	Self	Symbol Name	
<input type="radio"/> All Sample Counts	450.0ms	4.2%	450.0	▶-[UISectionRowData refreshWithSection:tableView:tableViewRowData:] UIKit
<input type="radio"/> Running Sample Times	351.0ms	3.2%	351.0	▶objc_msgSend libobjc.A.dylib
<input checked="" type="radio"/> Call Tree	255.0ms	2.3%	255.0	▶0x8007c2d8
<input type="checkbox"/> Separate by Thread	186.0ms	1.7%	186.0	▶szone_free_definite_size libsystem_c.dylib
<input checked="" type="checkbox"/> Invert Call Tree	169.0ms	1.5%	169.0	▶_mtx_droplock libsystem_c.dylib
<input type="checkbox"/> Hide Missing Symbols	154.0ms	1.4%	154.0	▶mach_absolute_time libsystem_c.dylib
<input type="checkbox"/> Hide System Libraries	152.0ms	1.4%	152.0	▶pthread_mutex_lock libsystem_c.dylib
<input type="checkbox"/> Show Obj-C Only	143.0ms	1.3%	143.0	▶strcpy libsystem_c.dylib
<input type="checkbox"/> Flatten Recursion	141.0ms	1.3%	141.0	▶tiny_malloc_from_free_list libsystem_c.dylib
<input type="checkbox"/> Top Functions	135.0ms	1.2%	135.0	▶szone_malloc_should_clear libsystem_c.dylib
<input checked="" type="checkbox"/> Call Tree Constraints	133.0ms	1.2%	133.0	▶JSC::Yarr::Interpreter::matchDisjunction(JSC::Yarr::ByteDisjunction*, JSC::Yarr::Interpreter::DisjunctionContext*, bool) JavaScriptCore
<input checked="" type="checkbox"/> Specific Data Mining	133.0ms	1.2%	133.0	▶strlen libsystem_c.dylib
	131.0ms	1.2%	131.0	▶memcpy\$VARIANT\$CortexA8 libsystem_c.dylib
	128.0ms	1.1%	128.0	▶szone_size libsystem_c.dylib
	108.0ms	1.0%	108.0	▶0x340c0bc4 libicucore.A.dylib
	107.0ms	1.0%	107.0	▶memset\$VARIANT\$CortexA8 libsystem_c.dylib
	105.0ms	0.9%	105.0	▶strcmp libsystem_c.dylib
	98.0ms	0.9%	98.0	▶argb32_image_mark_rgb32 CoreGraphics
	93.0ms	0.8%	93.0	▶0x340d2858 libicucore.A.dylib
	85.0ms	0.7%	85.0	▶free libsystem_c.dylib
	81.0ms	0.7%	81.0	▶0x340d1070 libicucore.A.dylib
	74.0ms	0.6%	74.0	▶0x340d08c8 libicucore.A.dylib
	68.0ms	0.6%	68.0	▶0x340c0acc libicucore.A.dylib
	61.0ms	0.5%	61.0	▶tiny_free_list_add_ptr libsystem_c.dylib
	59.0ms	0.5%	59.0	▶malloc_zone_malloc libsystem_c.dylib
	59.0ms	0.5%	59.0	▶pthread_mutex_unlock libsystem_c.dylib
	58.0ms	0.5%	58.0	▶objc::DenseMap<objc_object*, unsigned long, true, objc::DenseMapInfo<objc_object*>, objc::DenseMapInfo<unsigned long> >::LookupBucketFor(objc_object* const&, std::pair<objc_object*,
	56.0ms	0.5%	56.0	▶spin_lock\$VARIANT\$up libsystem_c.dylib
	53.0ms	0.4%	53.0	▶res_getTableItemByKey libicucore.A.dylib
	53.0ms	0.4%	53.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib
	52.0ms	0.4%	52.0	▶_ZL18search_method_listPK13method_list_tP13objc_selector libobjc.A.dylib
	52.0ms	0.4%	52.0	▶JSC::Interpreter::privateExecute(JSC::Interpreter::ExecutionFlag, JSC::RegisterFile*, JSC::ExecState*) JavaScriptCore
	51.0ms	0.4%	51.0	▶mtx_lock libicucore.A.dylib

Instruments2

Record Target GroupA

Inspection Range 00:00:37 Run 1 of 1

View Library

All Cores All Processes All Threads

Instruments

Time Profiler

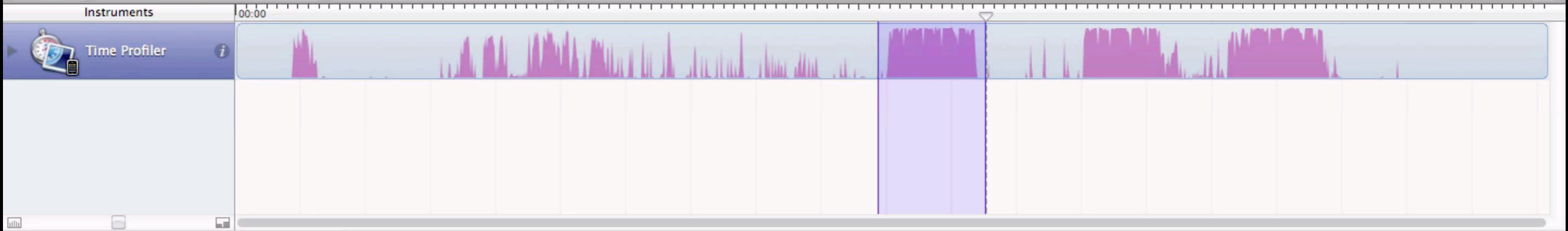
Time Profiler

Call Tree

Sample Perspective	Running Time	Self	Symbol Name
<input type="radio"/> All Sample Counts	450.0ms 4.2%	450.0	▶-[UISectionRowData refreshWithSection:tableView:tableViewRowData:] UIKit
<input checked="" type="radio"/> Running Sample Times	351.0ms 3.2%	351.0	▶objc_msgSend libobjc.A.dylib
Call Tree	255.0ms 2.3%	255.0	▶0x8007c2d8
<input type="checkbox"/> Separate by Thread	186.0ms 1.7%	186.0	▶szone_free_definite_size libsystem_c.dylib
<input checked="" type="checkbox"/> Invert Call Tree	169.0ms 1.5%	169.0	▶__mtx_droplock libsystem_c.dylib
<input type="checkbox"/> Hide Missing Symbols	154.0ms 1.4%	154.0	▶mach_absolute_time libsystem_c.dylib
<input type="checkbox"/> Hide System Libraries	152.0ms 1.4%	152.0	▶pthread_mutex_lock libsystem_c.dylib
<input type="checkbox"/> Show Obj-C Only	143.0ms 1.3%	143.0	▶strcpy libsystem_c.dylib
<input type="checkbox"/> Flatten Recursion	141.0ms 1.3%	141.0	▶tiny_malloc_from_free_list libsystem_c.dylib
<input type="checkbox"/> Top Functions	135.0ms 1.2%	135.0	▶szone_malloc_should_clear libsystem_c.dylib
Call Tree Constraints	133.0ms 1.2%	133.0	▶JSC::Yarr::Interpreter::matchDisjunction(JSC::Yarr::ByteDisjunction*, JSC::Yarr::Interpreter::DisjunctionContext*,
Specific Data Mining	133.0ms 1.2%	133.0	▶strlen libsystem_c.dylib
	131.0ms 1.2%	131.0	▶memcpy\$VARIANT\$CortexA8 libsystem_c.dylib
	128.0ms 1.1%	128.0	▶szone_size libsystem_c.dylib
	108.0ms 1.0%	108.0	▶0x340c0bc4 libicucore.A.dylib
	107.0ms 1.0%	107.0	▶memset\$VARIANT\$CortexA8 libsystem_c.dylib
	105.0ms 0.9%	105.0	▶strcpy libsystem_c.dylib
	81.0ms 0.7%	81.0	▶0x340d1070 libicucore.A.dylib
	74.0ms 0.6%	74.0	▶0x340d08c8 libicucore.A.dylib
	68.0ms 0.6%	68.0	▶0x340c0acc libicucore.A.dylib
	61.0ms 0.5%	61.0	▶tiny_free_list_add_ptr libsystem_c.dylib
	59.0ms 0.5%	59.0	▶malloc_zone_malloc libsystem_c.dylib
	59.0ms 0.5%	59.0	▶pthread_mutex_unlock libsystem_c.dylib
	58.0ms 0.5%	58.0	▶objc::DenseMap<objc_object*, unsigned long, true, objc::DenseMapInfo<objc_object*>, objc::DenseMapInfo<unsigned long> >::LookupBucketFor(objc_object* const&, std::pair<objc_object*,
	56.0ms 0.5%	56.0	▶spin_lock\$VARIANT\$up libsystem_c.dylib
	53.0ms 0.4%	53.0	▶res_getTableItemByKey libicucore.A.dylib
	53.0ms 0.4%	53.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib
	52.0ms 0.4%	52.0	▶_ZL18search_method_listPK13method_list_tP13objc_selector libobjc.A.dylib
	52.0ms 0.4%	52.0	▶JSC::Interpreter::privateExecute(JSC::Interpreter::ExecutionFlag, JSC::RegisterFile*, JSC::ExecState*) JavaScriptCore
	51.0ms 0.4%	51.0	▶__mtx_lock libicucore.A.dylib

Instruments2
 00:00:37
 Run 1 of 1
 Involves Symbol
 Search

All Cores All Processes All Threads



- Time Profiler
- Sample Perspective
 - All Sample Counts
 - Running Sample Times
 - Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
 - Call Tree Constraints
 - Specific Data Mining

Call Tree

Running Time	Self	Symbol Name
153.0ms 6.6%	153.0	▶-[UISectionRowData refreshWithSection:tableView:tableViewRowData:] UIKit
59.0ms 2.5%	59.0	▶__mtx_droplock libsystem_c.dylib
59.0ms 2.5%	59.0	▶objc_msgSend libobjc.A.dylib
52.0ms 2.2%	52.0	▶szone_free_definite_size libsystem_c.dylib
51.0ms 2.2%	51.0	▶pthread_mutex_lock libsystem_c.dylib
42.0ms 1.8%	42.0	▶mach_absolute_time libsystem_c.dylib
41.0ms 1.7%	41.0	▶szone_malloc_should_clear libsystem_c.dylib
38.0ms 1.6%	38.0	▶szone_size libsystem_c.dylib
38.0ms 1.6%	38.0	▶0x340c0bc4 libicucore.A.dylib
37.0ms 1.6%	37.0	▶strcpy libsystem_c.dylib
36.0ms 1.5%	36.0	▶strlen libsystem_c.dylib
35.0ms 1.5%	35.0	▶memcpy\$VARIANT\$CortexA8 libsystem_c.dylib
33.0ms 1.4%	33.0	▶argb32_image_mark_rgb32 CoreGraphics
31.0ms 1.3%	31.0	▶strcmp libsystem_c.dylib
31.0ms 1.3%	31.0	▶tiny_malloc_from_free_list libsystem_c.dylib
29.0ms 1.2%	29.0	▶memset\$VARIANT\$CortexA8 libsystem_c.dylib
28.0ms 1.2%	28.0	▶0x340d08c8 libicucore.A.dylib
27.0ms 1.1%	27.0	▶free libsystem_c.dylib
25.0ms 1.0%	25.0	▶0x340c0acc libicucore.A.dylib
21.0ms 0.9%	21.0	▶0x340d2858 libicucore.A.dylib
20.0ms 0.8%	20.0	▶umtx_lock libicucore.A.dylib
20.0ms 0.8%	20.0	▶u_strlen libicucore.A.dylib
20.0ms 0.8%	20.0	▶0x340d0f38 libicucore.A.dylib
18.0ms 0.7%	18.0	▶0x340d1070 libicucore.A.dylib
18.0ms 0.7%	18.0	▶res_getTableItemByKey libicucore.A.dylib
17.0ms 0.7%	17.0	▶0x34088ac0 libicucore.A.dylib
17.0ms 0.7%	17.0	▶malloc_zone_malloc libsystem_c.dylib
16.0ms 0.6%	16.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib
16.0ms 0.6%	16.0	▶0x8007c2d8
16.0ms 0.6%	16.0	▶icu::Calendar::setTimeInMillis(double, UErrorCode&) libicucore.A.dylib
16.0ms 0.6%	16.0	▶0x340c0a28 libicucore.A.dylib
16.0ms 0.6%	16.0	▶strchr libsystem_c.dylib
15.0ms 0.6%	15.0	▶icu::UnicodeString::doCompare(int, int, unsigned short const*, int, int) const libicucore.A.dylib

Instruments2

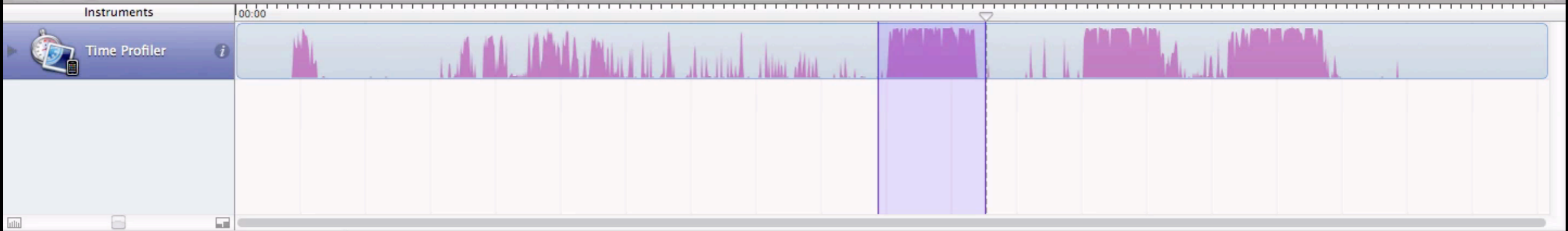
00:00:37 Run 1 of 1

GroupA Target

Inspection Range View Library

Involves Symbol Search

All Cores All Processes All Threads



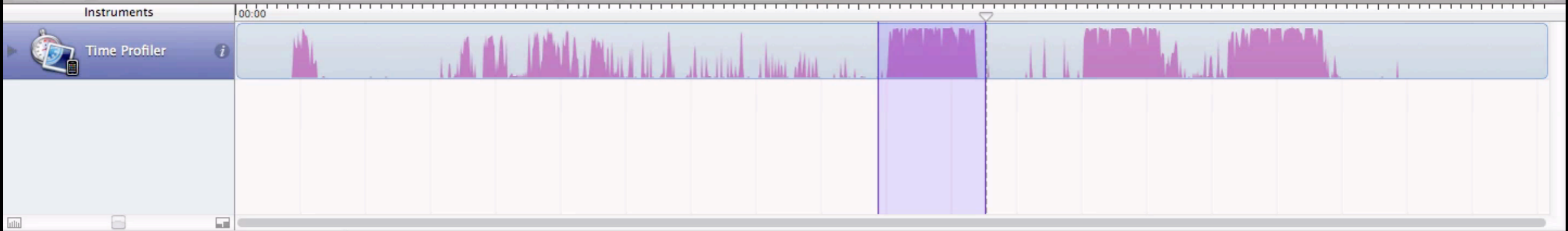
Time Profiler Call Tree

Sample Perspective	Running Time	Self	Symbol Name
<input type="radio"/> All Sample Counts	159.0ms 6.8%	159.0	▶-[UISectionRowData refreshWithSection:tableView:tableViewRowData:] UIKit
<input type="radio"/> Running Sample Times	59.0ms 2.5%	59.0	▶__mtx_droplock libsystem_c.dylib
<input checked="" type="radio"/> Call Tree	59.0ms 2.5%	59.0	▶objc_msgSend libobjc.A.dylib
<input type="checkbox"/> Separate by Thread	52.0ms 2.2%	52.0	▶ures_openDirect libicucore.A.dylib
<input checked="" type="checkbox"/> Invert Call Tree	52.0ms 2.2%	52.0	▶szone_free_definite_size libsystem_c.dylib
<input checked="" type="checkbox"/> Hide Missing Symbols	51.0ms 2.2%	51.0	▶pthread_mutex_lock libsystem_c.dylib
<input type="checkbox"/> Hide System Libraries	48.0ms 2.0%	48.0	▶ures_getByKey libicucore.A.dylib
<input type="checkbox"/> Show Obj-C Only	42.0ms 1.8%	42.0	▶mach_absolute_time libsystem_c.dylib
<input type="checkbox"/> Flatten Recursion	42.0ms 1.8%	42.0	▶szone_malloc_should_clear libsystem_c.dylib
<input type="checkbox"/> Top Functions	39.0ms 1.6%	39.0	▶memcpy\$VARIANT\$CortexA8 libsystem_c.dylib
<input type="checkbox"/> Call Tree Constraints	39.0ms 1.6%	39.0	▶argb32_image_mark_rgb32 CoreGraphics
<input type="checkbox"/> Specific Data Mining	39.0ms 1.6%	39.0	▶res_getTableItemByKey libicucore.A.dylib
	38.0ms 1.6%	38.0	▶szone_size libsystem_c.dylib
	37.0ms 1.6%	37.0	▶strcpy libsystem_c.dylib
	36.0ms 1.5%	36.0	▶strlen libsystem_c.dylib
	36.0ms 1.5%	36.0	▶uloc_addLikelySubtags libicucore.A.dylib
	35.0ms 1.5%	35.0	▶icu::GregorianCalendar::GregorianCalendar(icu::Locale const&, UErrorCode&) libicucore.A.dylib
	32.0ms 1.3%	0.0	▶uloc_canonicalize libicucore.A.dylib
	32.0ms 1.3%	32.0	▶uloc_getName libicucore.A.dylib
	31.0ms 1.3%	31.0	▶strcmp libsystem_c.dylib
	31.0ms 1.3%	31.0	▶tiny_malloc_from_free_list libsystem_c.dylib
	30.0ms 1.2%	30.0	▶memset\$VARIANT\$CortexA8 libsystem_c.dylib
	27.0ms 1.1%	27.0	▶free libsystem_c.dylib
	20.0ms 0.8%	20.0	▶umtx_lock libicucore.A.dylib
	20.0ms 0.8%	20.0	▶u_strlen libicucore.A.dylib
	18.0ms 0.7%	18.0	▶uhash_get libicucore.A.dylib
	17.0ms 0.7%	17.0	▶malloc_zone_malloc libsystem_c.dylib
	16.0ms 0.6%	16.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib
	16.0ms 0.6%	16.0	▶icu::Calendar::setTimeInMillis(double, UErrorCode&) libicucore.A.dylib
	16.0ms 0.6%	16.0	▶uloc_minimizeSubtags libicucore.A.dylib
	16.0ms 0.6%	16.0	▶ strchr libsystem_c.dylib
	15.0ms 0.6%	15.0	▶icu::Calendar::setWeekData(icu::Locale const&, char const*, UErrorCode&) libicucore.A.dylib
	15.0ms 0.6%	0.0	▶uloc_getBaseName libicucore.A.dylib

	12.0ms 0.5%	0.0	▶icu::Calendar::setWeekData(icu::Locale const&, char const*, UErrorCode&) libicucore.A.dylib
	12.0ms 0.5%	12.0	▶ strcmp libsystem_c.dylib
	10.0ms 0.4%	10.0	▶uloc_minimizeSubtags libicucore.A.dylib
	10.0ms 0.4%	10.0	▶icu::Calendar::setTimeInMillis(double, UErrorCode&) libicucore.A.dylib
	10.0ms 0.4%	10.0	▶OSAtomicCompareAndSwap64 libsystem_c.dylib
	10.0ms 0.4%	10.0	▶uloc_getBaseName libicucore.A.dylib

Instruments2
 00:00:37
 Run 1 of 1
 Involves Symbol Search

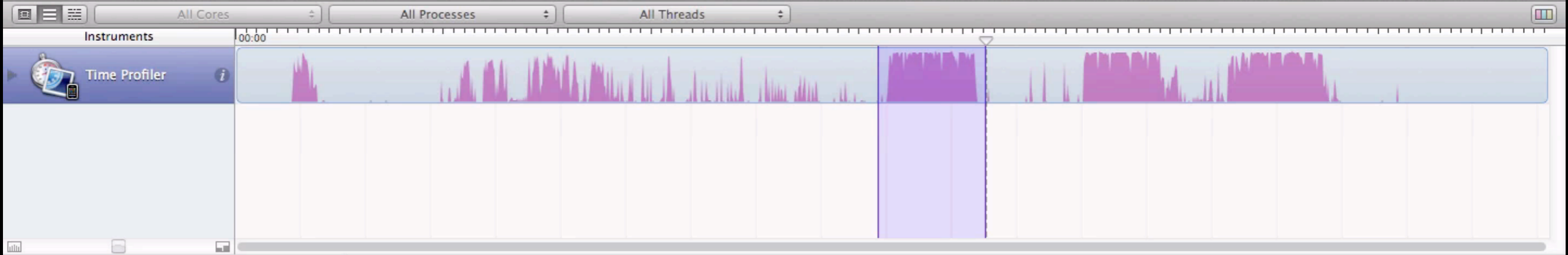
All Cores All Processes All Threads



- Time Profiler
- Sample Perspective
 - All Sample Counts
 - Running Sample Times
 - Call Tree
- Separate by Thread
- Invert Call Tree
- Hide Missing Symbols
- Hide System Libraries
- Show Obj-C Only
- Flatten Recursion
- Top Functions
- Call Tree Constraints
- Specific Data Mining

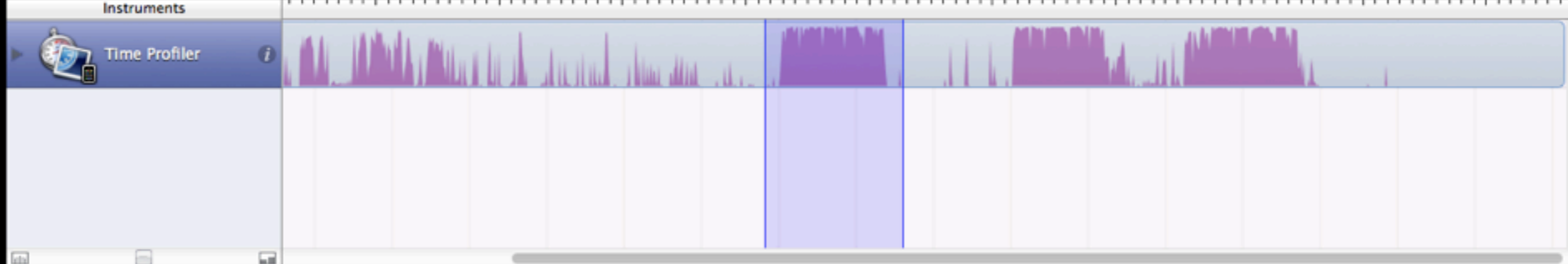
Running Time	Self	Symbol Name
1576.0ms 68.2%	1576.0	▶-[MAOAddSegmentViewController viewDidLoad]_block_invoke_1 GroupA
326.0ms 14.1%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
326.0ms 14.1%	0.0	▶main GroupA
267.0ms 11.5%	0.0	▶main GroupA
104.0ms 4.5%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
104.0ms 4.5%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
104.0ms 4.5%	0.0	▶main GroupA
6.0ms 0.2%	0.0	▼+[NSDateFormatter(NSDateFormatter) dateFormatter] GroupA
6.0ms 0.2%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
6.0ms 0.2%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
6.0ms 0.2%	0.0	▶main GroupA
6.0ms 0.2%	0.0	▶-[MAOAddSegmentViewController tableView:cellForRowAtIndexPath:] GroupA
3.0ms 0.1%	0.0	▶-[MAOAddSegmentViewController tableView:cellForRowAtIndexPath:] GroupA
2.0ms 0.0%	2.0	▶DYLD-STUBS \$objc_msgSend GroupA
2.0ms 0.0%	0.0	▼+[MAOSegment insertInManagedObjectContext:] GroupA
2.0ms 0.0%	0.0	▼+[NSManagedObjectContext(ActiveRecord) createInContext:] GroupA
2.0ms 0.0%	0.0	▼+[NSManagedObjectContext(ActiveRecord) createEntity] GroupA
2.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
2.0ms 0.0%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
2.0ms 0.0%	0.0	▶main GroupA
2.0ms 0.0%	0.0	▶main GroupA
1.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController showDateTime] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
1.0ms 0.0%	0.0	▶main GroupA

Instruments2
00:00:37
Run 1 of 1
GroupA
Involves Symbol
Search



- Time Profiler
- Sample Perspective
 - All Sample Counts
 - Running Sample Times
 - Call Tree
- Separate by Thread
- Invert Call Tree
- Hide Missing Symbols
- Hide System Libraries
- Show Obj-C Only
- Flatten Recursion
- Top Functions
- Call Tree Constraints
- Specific Data Mining

Running Time	Self	Symbol Name
1682.0ms 72.8%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
1682.0ms 72.8%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread
326.0ms 14.1%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread
6.0ms 0.2%	0.0	▼+[NSDateFormatter(NSDateFormatter) dateFormatter] GroupA
6.0ms 0.2%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
6.0ms 0.2%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread
3.0ms 0.1%	0.0	▶-[MAOAddSegmentViewController tableView:cellForRowAtIndexPath:] GroupA
2.0ms 0.0%	0.0	▼+[MAOSegment insertInManagedObjectContext:] GroupA
2.0ms 0.0%	0.0	▼+[NSManagedObject(ActiveRecord) createInContext:] GroupA
2.0ms 0.0%	0.0	▼+[NSManagedObject(ActiveRecord) createEntity] GroupA
2.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
2.0ms 0.0%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread
1.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController showDateTime] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread



Time Profiler Call Tree

Running Time	Self	Symbol Name
1682.0ms 72.5%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
1682.0ms 72.5%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread
326.0ms 14.0%	0.0	▶-[MAOAddFlightViewController addSegmentTapped:] GroupA
6.0ms 0.2%	0.0	▼+[NSDateFormatter(NSDateFormatter_formatter) localDateFormatter] GroupA
6.0ms 0.2%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
6.0ms 0.2%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread
3.0ms 0.1%	0.0	▶-[MAOAddSegmentViewController tableView:cellForRowAtIndexPath:] GroupA
2.0ms 0.0%	0.0	▼+[MAOSegment insertInManagedObjectContext:] GroupA
2.0ms 0.0%	0.0	▼+[NSManagedObjectContext createEntity] GroupA
2.0ms 0.0%	0.0	▶-[MAOAddSegmentViewController viewDidLoad] GroupA
2.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController showDateTime] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
0.0ms 0.0%	0.0	Main Thread

Extended Detail

Heaviest Stack Trace

- 1682.0 -[MAOAddSegmentViewCo...
- 1682.0 -[MAOAddFlightViewContr...
- 0.0 Main Thread

GroupA Time Profiler

00:00:37
Run 1 of 1

GroupA

Record Target

Inspection Range

View Library

Search Involves Symbol

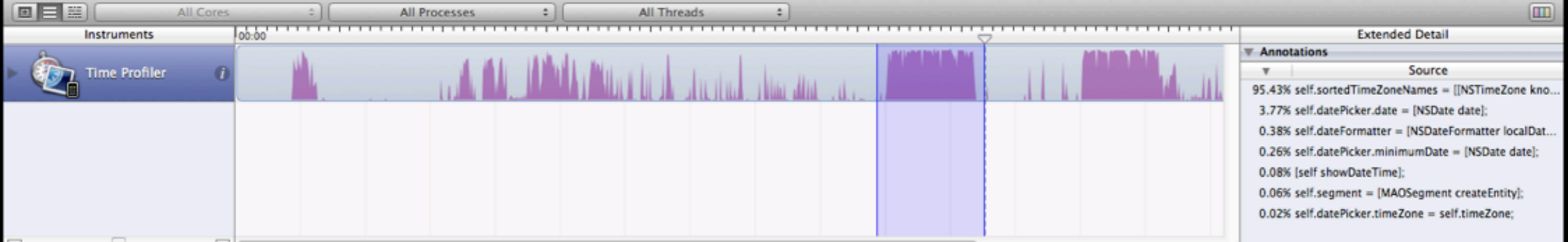
All Cores All Processes All Threads

Instruments Extended Detail

Running Time	Self	Symbol Name
1682.0ms 72.5%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
1682.0ms 72.5%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread
326.0ms 14.0%	0.0	▶-[MAOAddFlightViewController addSegmentTapped:] GroupA
6.0ms 0.2%	0.0	▼+[NSDateFormatter(NSDateFormatter_formatter) localDateFormatter] GroupA
6.0ms 0.2%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
6.0ms 0.2%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread
3.0ms 0.1%	0.0	▶-[MAOAddSegmentViewController tableView:cellForRowAtIndexPath:] GroupA
2.0ms 0.0%	0.0	▼+[_MAOSegment insertInManagedObjectContext:] GroupA
2.0ms 0.0%	0.0	▼+[NSManagedObjectContext(NSManagedObjectContext) createInContext:] GroupA
2.0ms 0.0%	0.0	▼+[NSManagedObjectContext(NSManagedObjectContext) createEntity] GroupA
2.0ms 0.0%	0.0	▶-[MAOAddSegmentViewController viewDidLoad] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController showDateTime] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddSegmentViewController viewDidLoad] GroupA
1.0ms 0.0%	0.0	▼-[MAOAddFlightViewController addSegmentTapped:] GroupA
0.0ms 0.0%	0.0	Main Thread

Time Profiler Settings:

- Time Profiler
- Sample Persistence
 - All Sample Co
 - Running Sam
- Call Tree
 - Separate by T
 - Invert Call Tre
 - Hide Missing
 - Hide System L
 - Show Obj-C
 - Flatten Recurs
 - Top Functions
 - Call Tree Cor
 - Specific Data



- Time Profiler
- Sample Perspective
 - All Sample Counts
 - Running Sample Times
- Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
- Call Tree Constraints
- Specific Data Mining

```
Call Tree > Call Tree > M -[MAOAddSegmentViewController viewDidLoad]
MAOAddSegmentViewController.m
83 if (self.segment == nil) {
84     self.segment = [MAOSegment createEntity];
85     self.timeZone = [NSTimeZone localTimeZone];
86     self.datePicker.date = [NSDate date];
87 } else {
88     self.datePicker.date = self.segment.departureDate;
89     self.timeZone = [NSTimeZone timeZoneWithName:self.segment.timeZone];
90 }
91
92 self.datePicker.minimumDate = [NSDate date];
93 self.datePicker.timeZone = self.timeZone;
94 self.dateFormatter = [NSDateFormatter localDateFormatter];
95 self.dateFormatter.timeZone = self.timeZone;
96
97 self.sortedTimeZoneNames = [[NSTimeZone knownTimeZoneNames]
98     sortedArrayUsingComparator:^NSComparisonResult(id obj1, id obj2) {
99         NSNumber *number1 = [NSNumber numberWithInt:[NSTimeZone timeZoneWithName:obj1
100             ].secondsFromGMT]];
101         NSNumber *number2 = [NSNumber numberWithInt:[NSTimeZone timeZoneWithName:obj2
102             ].secondsFromGMT]];
103         return [number1 compare:number2];
104     }];
105
106 [self showDateTime];
107
108 - (void)viewDidUnload
109 {
110     [self setDateInView:nil];
111     [self setSegmentDate:nil];
112 }
```

Extended Detail	
Annotations	
	Source
95.43%	self.sortedTimeZoneNames = [[NSTimeZone know...
3.77%	self.datePicker.date = [NSDate date];
0.38%	self.dateFormatter = [NSDateFormatter localDat...
0.26%	self.datePicker.minimumDate = [NSDate date];
0.08%	[self showDateTime];
0.06%	self.segment = [MAOSegment createEntity];
0.02%	self.datePicker.timeZone = self.timeZone;

Instruments2
00:00:37
Run 1 of 1

GroupA
Target
Inspection Range
View
Library
Search
Involves Symbol

Call Tree
Call Tree
M -[MAOAddSegmentViewController viewDidLoad]

MAOAddSegmentViewController.m

```
83     if (self.segment == nil) {
84         self.segment = [MAOSegment createEntity];
85         self.timeZone = [NSTimeZone localTimeZone];
86         self.datePicker.date = [NSDate date];
87     } else {
88         self.datePicker.date = self.segment.departureDate;
89         self.timeZone = [NSTimeZone timeZoneWithName:self.segment.timeZone];
90     }
91
92     self.datePicker.minimumDate = [NSDate date];
93     self.datePicker.timeZone = self.timeZone;
94     self.dateFormatter = [NSDateFormatter localDateFormatter];
95     self.dateFormatter.timeZone = self.timeZone;
96
97     self.sortedTimeZoneNames = [[NSTimeZone knownTimeZoneNames]
98     sortedArrayUsingComparator:^(NSComparisonResult(id obj1, id obj2) {
99         NSNumber *number1 = [NSNumber numberWithInt:[NSTimeZone timeZoneWithName:obj1
100             ] secondsFromGMT]];
101         NSNumber *number2 = [NSNumber numberWithInt:[NSTimeZone timeZoneWithName:obj2
102             ] secondsFromGMT]];
103         return [number1 compare:number2];
104     }];
105
106     [self showDateTime];
107 }
108
109 - (void)viewDidLoad
110 {
111     [self setDateTextView:nil];
112     [self setSegmentDate:nil];
113 }
```

0.1%
3.8%
0.3%
0.0%
0.4%
95.4%
0.1%

Instruments2
00:00:37
Run 1 of 1


GroupA
Involves Symbol

Call Tree > Call Tree > M -[MAOAddSegmentViewController viewDidLoad]

MAOAddSegmentViewController.m

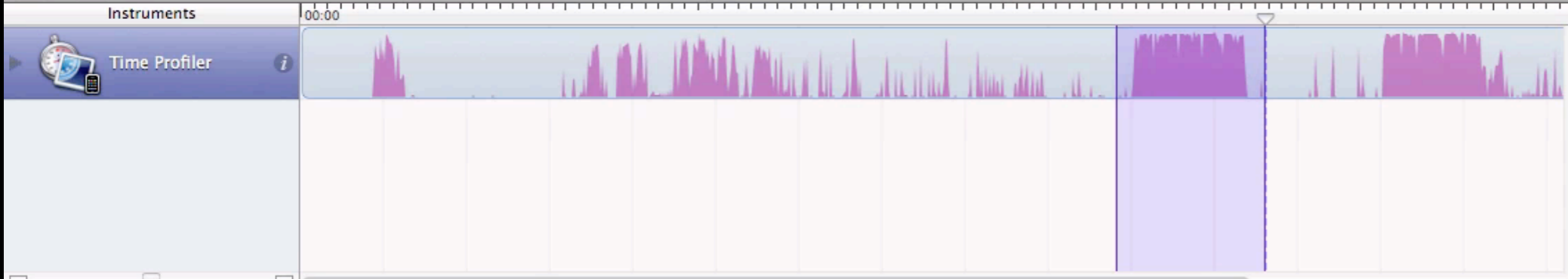
```
83     if (self.segment == nil) {
84         self.segment = [MAOSegment createEntity];
85         self.timeZone = [NSTimeZone localTimeZone];
86         self.datePicker.date = [NSDate date];
87     } else {
88         self.datePicker.date = self.segment.departureDate;
89         self.timeZone = [NSTimeZone timeZoneWithName:self.segment.timeZone];
90     }
91
92     self.datePicker.minimumDate = [NSDate date];
93     self.datePicker.timeZone = self.timeZone;
94     self.dateFormatter = [NSDateFormatter localDateFormatter];
95     self.dateFormatter.timeZone = self.timeZone;
96
97     self.sortedTimeZoneNames = [[NSTimeZone knownTimeZoneNames]
98     sortedArrayUsingComparator:^(NSComparisonResult(id obj1, id obj2) {
99         NSNumber *number1 = [NSNumber numberWithInt:[NSTimeZone timeZoneWithName:obj1
100             ] secondsFromGMT]];
101         NSNumber *number2 = [NSNumber numberWithInt:[NSTimeZone timeZoneWithName:obj2
102             ] secondsFromGMT]];
103         return [number1 compare:number2];
104     }];
105
106     [self showDateTime];
107 }
108
109 - (void)viewDidLoad
110 {
111     [self setDateTextView:nil];
112     [self setSegmentDate:nil];
113 }
```

0.1%
3.8%
0.3%
0.0%
0.4%
95.4%
0.1%



Instruments2
00:00:37 Run 1 of 1
GroupA
Involves Symbol
Search

All Cores All Processes All Threads



Extended Detail

Annotations	Source
95.43%	self.sortedTimeZoneNames = [[NSTimeZone knownTimeZones] sortedArrayUsingComparator:^NSComparisonResult(id obj1, id obj2) {
3.77%	self.datePicker.date = [NSDate date];
0.38%	self.dateFormatter = [NSDateFormatter localDateFormatter];
0.26%	self.datePicker.minimumDate = [NSDate date];
0.08%	[self showDateTime];
0.06%	self.segment = [MAOSegment createEntity];
0.02%	self.datePicker.timeZone = self.timeZone;

Time Profiler

- Sample Perspective
 - All Sample Counts
 - Running Sample Times
- Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
- Call Tree Constraints
- Specific Data Mining

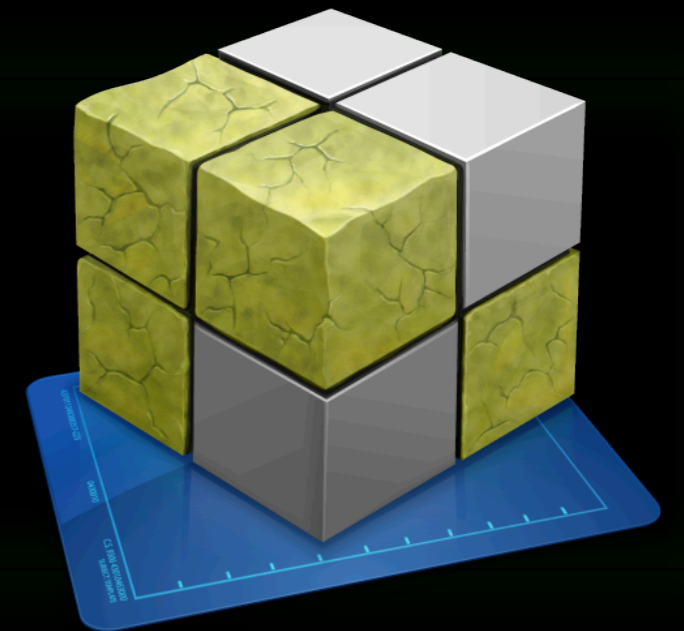
Call Tree > Call Tree > M -(MAOAddSegmentViewController viewDidLoad)

```
MAOAddSegmentViewController.m
83 if (self.segment == nil) {
84     self.segment = [MAOSegment createEntity];
85     self.timeZone = [NSTimeZone localTimeZone];
86     self.datePicker.date = [NSDate date];
87 } else {
88     self.datePicker.date = self.segment.departureDate;
89     self.timeZone = [NSTimeZone timeZoneWithName:self.segment.timeZone];
90 }
91
92 self.datePicker.minimumDate = [NSDate date];
93 self.datePicker.timeZone = self.timeZone;
94 self.dateFormatter = [NSDateFormatter localDateFormatter];
95 self.dateFormatter.timeZone = self.timeZone;
96
97 self.sortedTimeZoneNames = [[NSTimeZone knownTimeZoneNames]
98     sortedArrayUsingComparator:^NSComparisonResult(id obj1, id obj2) {
99     NSNumber *number1 = [NSNumber numberWithInt:[NSTimeZone timeZoneWithName:obj1
100     ] secondsFromGMT]];
101     NSNumber *number2 = [NSNumber numberWithInt:[NSTimeZone timeZoneWithName:obj2
102     ] secondsFromGMT]];
103     return [number1 compare:number2];
104     }];
105
106 [self showDateTime];
107
108 -(void)viewDidLoad
109 {
110     [self setDateTextView:nil];
111     [self setSegmentDate:nil];
112 }
```

Time Profiler

- Sample Perspective
 - All Sample Counts
 - Running Sample Times
- Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
- Call Tree Constraints
- Specific Data Mining

Zombies



There comes a time in every
developer's life...

MXPOS.xcworkspace — Default@2x.png

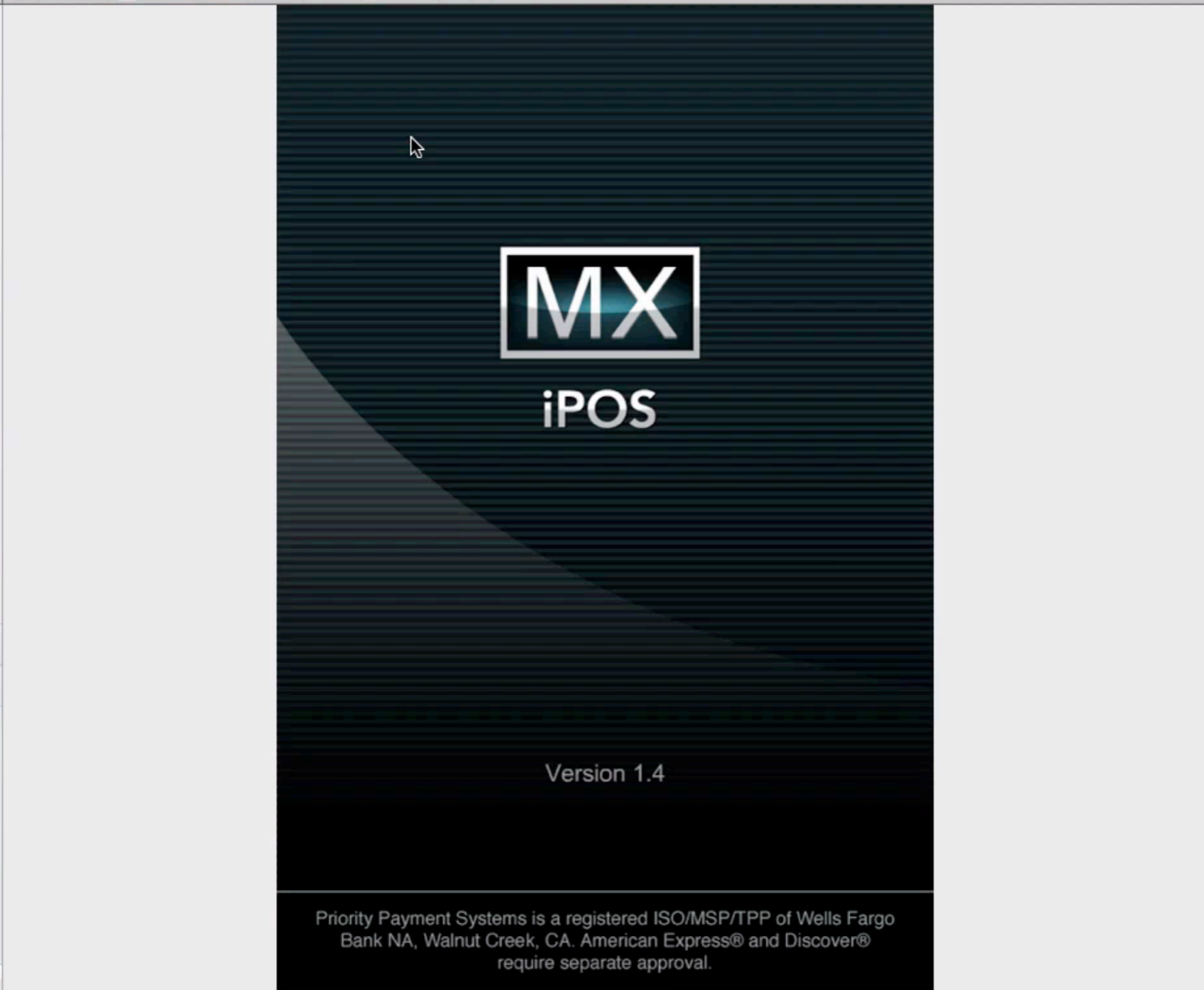
Development > iPhone 5.0 Simulator

Finished running MXiPOS on iPhone 5.0 Simulator

No Issues

Run Stop Scheme Breakpoints Editor View Organizer

- MerchantsVC.m
- Default@2x.png
- MXPOS > Supporting Files > Default@2x.png > No Selection
- Cells
 - View Controllers
 - PPSMenuVC.xib
 - PPSModallInputVC.xib
 - Login
 - LoginView.xib
 - MerchantsVC.xib
 - EulaVC.xib
 - Sale | Return
 - Settlement
 - Customers
 - Inventory
 - Reports
 - Alerts
 - Settings
 - Help
 - Images
 - alert
 - misc
 - red
 - pink
 - orange
 - blue1
 - blue2
 - yellow
 - Supporting Files
 - Tests
 - Frameworks
 - RestKit.xcodeproj
12 targets, iOS SDK 5.0
 - libSMS.xcodeproj
3 targets, iOS SDK 5.0
 - MediaPlayer.framework
 - MobileCoreServices.framework
 - AudioToolbox.framework
 - AVFoundation.framework
 - OpenGL.framework
 - CFNetwork.framework
 - QuartzCore.framework
 - Security.framework
 - SystemConfiguration.framework
 - ExternalAccessory.framework
 - CoreLocation.framework
 - UIKit.framework



No Selection

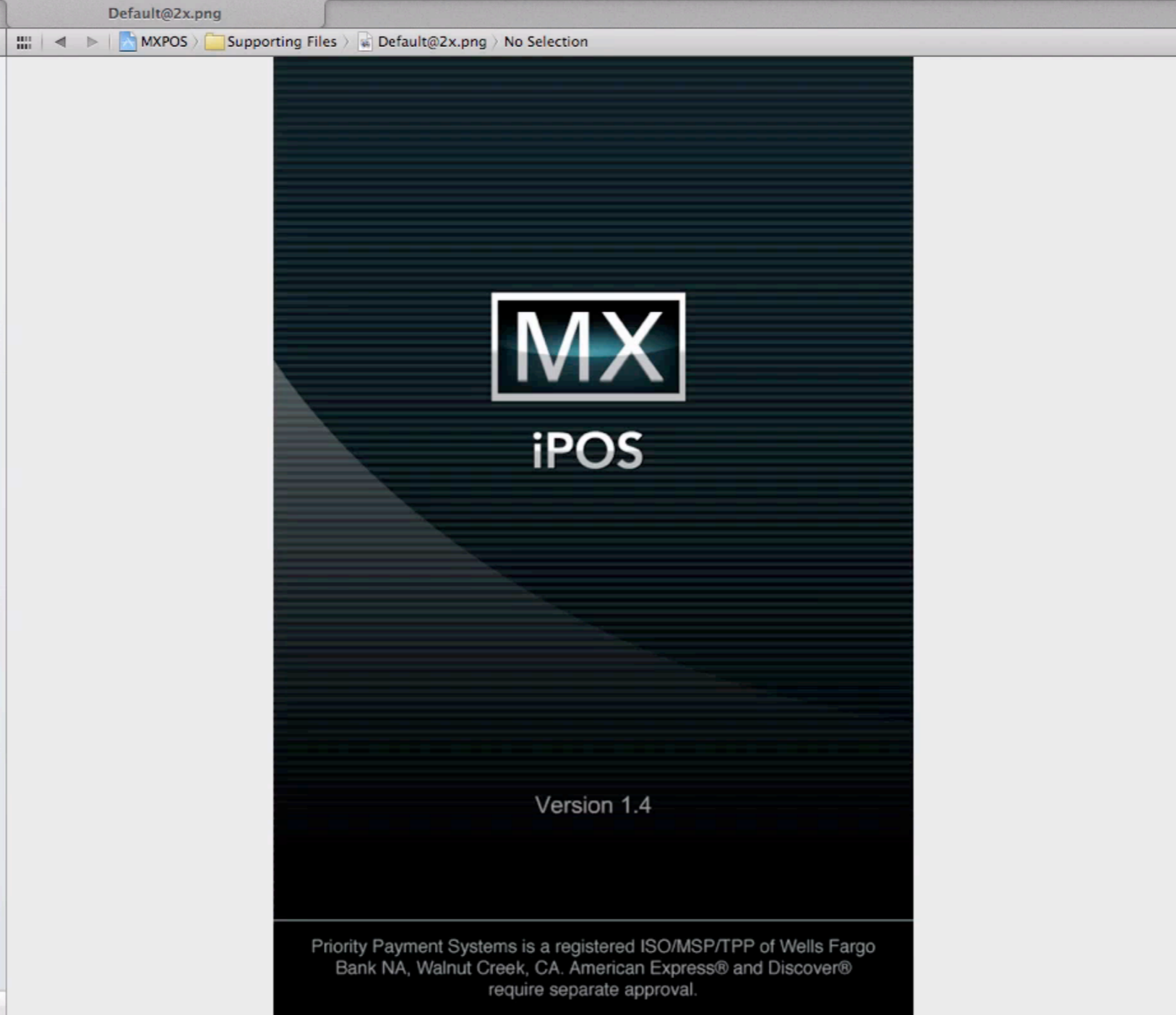
Object Library

Label

2011-10-30 20:40:54.923

MXiPOS[29533:12503] *** -[UIView
_shouldUseKeyWindowStack]: message sent
to deallocated instance 0x10b72560

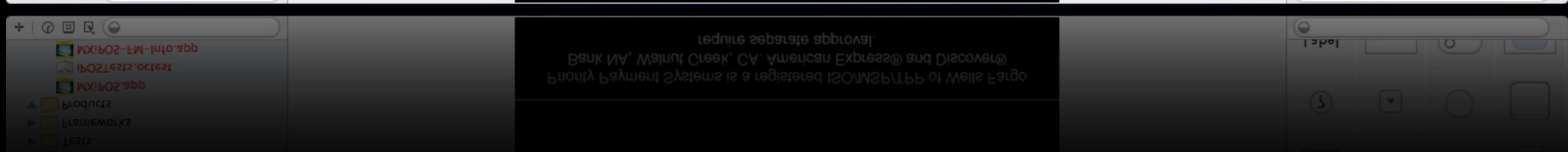
- Controllers
- Views
- Model
- Categories
- Enums
- AppSettings.h
- AppDelegate.m
- AppDelegate.h
- PPSMacros.h
- XIBs
 - MainWindow.xib
- Cells
- View Controllers
 - PPSMenuVC.xib
 - PPSModalInputVC.xib
 - Login
 - LoginView.xib
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 - orange
 - blue1
 - blue2
 - yellow
- Supporting Files
- Tests
- Frameworks
- Products
 - MXiPOS.app
 - iPOSTests.octest
 - MXiPOS-FM-Info.app



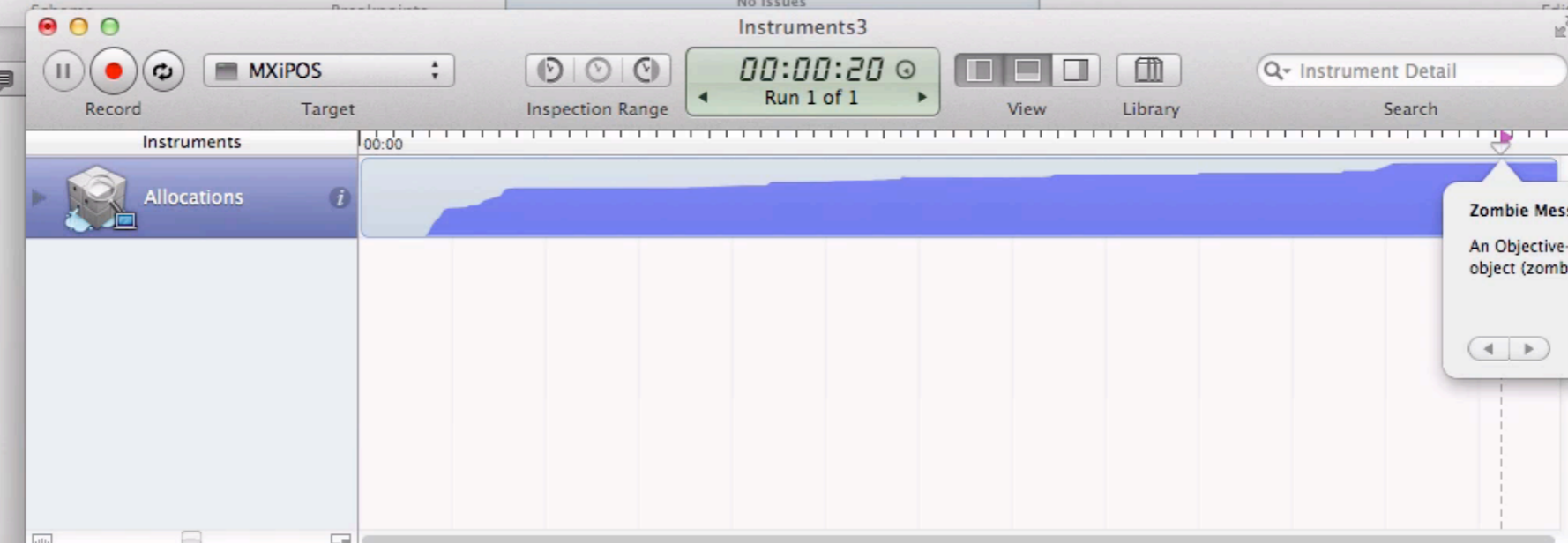
No Selection

Object Library

Label



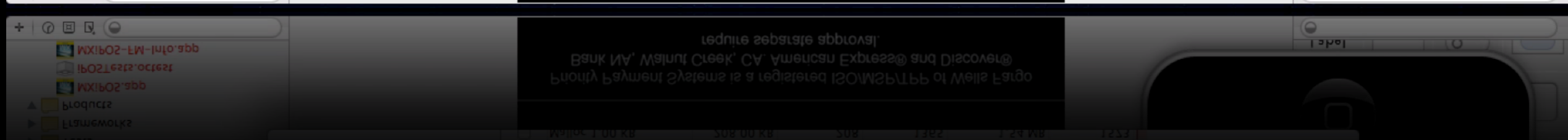
- Controllers
- Views
- Model
- Categories
- Enums
- AppSettings.h
- AppDelegate.m
- AppDelegate.h
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 - iPOSTests.octest
 - MXiPOS-FM-Info.app



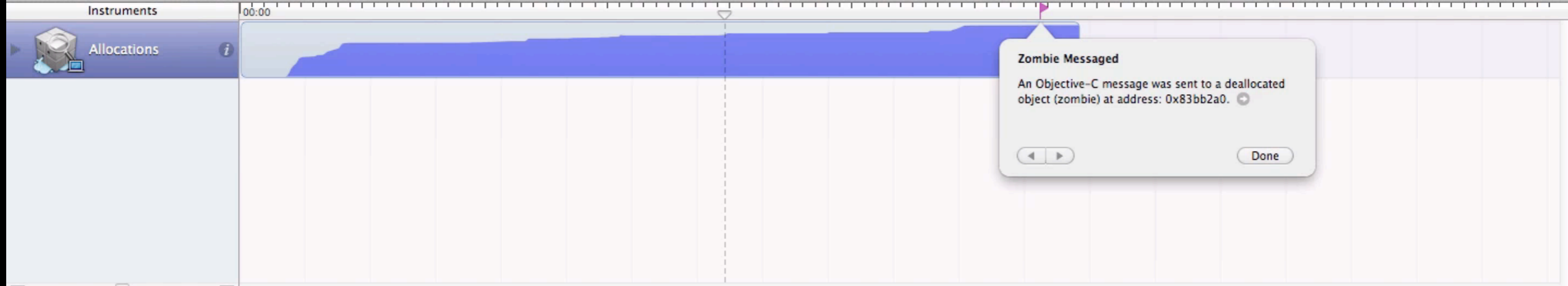
Allocations		Statistics	Object Summary
Heapshot Analysis		<input checked="" type="checkbox"/> Graph	Category
<input type="checkbox"/> All Objects Created	<input type="checkbox"/> Created & Still Living	<input type="checkbox"/> Malloc 128 Bytes	Live Bytes
<input type="checkbox"/> Created & Destroyed	<input type="checkbox"/> Call Tree	<input type="checkbox"/> Malloc 16 Bytes	# Living
<input type="checkbox"/> Separate by Category	<input type="checkbox"/> Separate by Thread	<input type="checkbox"/> CFString (immutable)	# Transitory
<input type="checkbox"/> Invert Call Tree	<input checked="" type="checkbox"/> Hide Missing Symbols	<input type="checkbox"/> Malloc 32 Bytes	Overall Bytes
<input type="checkbox"/> Hide System Libraries	<input type="checkbox"/> Show Obj-C Only	<input type="checkbox"/> CFString (store)	# Overall
<input type="checkbox"/> Flatten Recursion	<input type="checkbox"/> Call Tree Constraints	<input type="checkbox"/> CFBasicHash (value-st...)	# Allocations (Net / Overall)
<input type="checkbox"/> Specific Data Mining	<input type="checkbox"/> Specific Data Mining	<input type="checkbox"/> Malloc 48 Bytes	
		<input type="checkbox"/> CFString (mutable)	
		<input type="checkbox"/> CFBasicHash (key-store)	
		<input type="checkbox"/> Malloc 64 Bytes	
		<input type="checkbox"/> Malloc 80 Bytes	
		<input type="checkbox"/> Malloc 144 Bytes	
		<input type="checkbox"/> CFDictionary (mutable)	
		<input type="checkbox"/> Malloc 8 Bytes	
		<input type="checkbox"/> CFArray (store-deque)	
		<input type="checkbox"/> Malloc 96 Bytes	
		<input type="checkbox"/> CFArray (mutable-vari...)	
		<input type="checkbox"/> CFURL	
		<input type="checkbox"/> Malloc 1.00 KB	

Zombie Messaged
An Objective-C message was sent to a deallocated object (zombie) at address: 0x83bb2a0.

Priority Payment Systems is a registered ISO/MSP/TPP of Wells Fargo Bank NA, Walnut Creek, CA. American Express® and Discover® require separate approval.



Record Target MXiPOS Inspection Range 00:00:20 Run 1 of 1 View Library Instrument Detail Search



Allocations Statistics Object Summary History: 0x83bb2a0

#	Address	Category	Event Type	RefCt	Timestamp	Size	Responsible Library	Responsible Caller
0	0x83bb2a0	UIView	Malloc	1	00:11.903.558	48	UIKit	UINibDecoderDecodeObjectForValue
1	0x83bb2a0	UIView	Retain	2	00:11.905.532	0	UIKit	-[UIRuntimeConnection initWithCoder:]
2	0x83bb2a0	UIView	Retain	3	00:11.905.586	0	UIKit	UINibDecoderDecodeObjectForValue
3	0x83bb2a0	UIView	Retain	4	00:11.905.612	0	UIKit	UINibDecoderDecodeObjectForValue
4	0x83bb2a0	UIView	Retain	5	00:11.905.798	0	UIKit	-[UIViewController setView:]
5	0x83bb2a0	UIView	Retain	6	00:11.905.814	0	UIKit	-[UINib instantiateWithOwner:options:]
6	0x83bb2a0	UIView	Release	5	00:11.905.937	0	UIKit	-[UINibDecoder finishDecoding]
7	0x83bb2a0	UIView	Release	4	00:11.905.976	0	UIKit	-[UIRuntimeConnection dealloc]
8	0x83bb2a0	UIView	Release	3	00:11.906.010	0	UIKit	-[UINibDecoder finishDecoding]
9	0x83bb2a0	UIView	Release	2	00:11.906.021	0	UIKit	-[UINibDecoder finishDecoding]
10	0x83bb2a0	UIView	Retain	3	00:11.906.921	0	UIKit	-[UIViewController view]
11	0x83bb2a0	UIView	Autorelease	0	00:11.906.923	0	UIKit	-[UIViewController view]
12	0x83bb2a0	UIView	Retain	4	00:11.930.186	0	UIKit	-[UIViewController view]
13	0x83bb2a0	UIView	Autorelease	0	00:11.930.187	0	UIKit	-[UIViewController view]
14	0x83bb2a0	UIView	Retain	5	00:11.930.190	0	UIKit	-[UIViewController view]
15	0x83bb2a0	UIView	Autorelease	0	00:11.930.191	0	UIKit	-[UIViewController view]
16	0x83bb2a0	UIView	Retain	6	00:11.930.219	0	UIKit	-[UIViewController view]
17	0x83bb2a0	UIView	Autorelease	0	00:11.930.221	0	UIKit	-[UIViewController view]
18	0x83bb2a0	UIView	Retain	7	00:11.930.245	0	UIKit	-[UIViewController view]
19	0x83bb2a0	UIView	Autorelease	0	00:11.930.247	0	UIKit	-[UIViewController view]
20	0x83bb2a0	UIView	Retain	8	00:11.930.435	0	UIKit	-[UIView(Internal) _addSubview:positioned:rela...
21	0x83bb2a0	UIView	Retain	9	00:11.930.606	0	UIKit	-[UIViewController view]
22	0x83bb2a0	UIView	Autorelease	0	00:11.930.606	0	UIKit	-[UIViewController view]
23	0x83bb2a0	UIView	Retain	10	00:11.930.664	0	UIKit	-[UIViewController view]
24	0x83bb2a0	UIView	Autorelease	0	00:11.930.665	0	UIKit	-[UIViewController view]
25	0x83bb2a0	UIView	Retain	11	00:11.930.689	0	UIKit	-[UIView(Hierarchy) subviews]
26	0x83bb2a0	UIView	Retain	12	00:11.930.958	0	UIKit	-[UIViewController view]
27	0x83bb2a0	UIView	Autorelease	0	00:11.930.959	0	UIKit	-[UIViewController view]
28	0x83bb2a0	UIView	Retain	13	00:11.930.994	0	UIKit	-[UIViewController view]
29	0x83bb2a0	UIView	Autorelease	0	00:11.930.994	0	UIKit	-[UIViewController view]

58	0x83bb2a0	UIView	Autorelease	0	00:11.930.994	0	UIKit	-[UIViewController view]
59	0x83bb2a0	UIView	Retain	13	00:11.930.994	0	UIKit	-[UIViewController view]
60	0x83bb2a0	UIView	Autorelease	0	00:11.930.994	0	UIKit	-[UIViewController view]
61	0x83bb2a0	UIView	Retain	15	00:11.930.994	0	UIKit	-[UIViewController view]
62	0x83bb2a0	UIView	Autorelease	0	00:11.930.994	0	UIKit	-[UIViewController view]
63	0x83bb2a0	UIView	Retain	17	00:11.930.994	0	UIKit	-[UIViewController view]
64	0x83bb2a0	UIView	Autorelease	0	00:11.930.994	0	UIKit	-[UIViewController view]
65	0x83bb2a0	UIView	Retain	19	00:11.930.994	0	UIKit	-[UIViewController view]
66	0x83bb2a0	UIView	Autorelease	0	00:11.930.994	0	UIKit	-[UIViewController view]

Record Target Inspection

Instruments 20:00

Allocations

Target: MXIPOS

Launch Configuration

- Discard unrecorded data upon stop
- Record reference counts
- Only track active allocations
- Identify C++ Objects
- Enable NSZombie detection

Track Display

Style: Current Bytes

Type: Overlay

Zoom: 1x

Recorded Types

- Record all types
- Ignore types with 'NS' prefixes
- Ignore types with 'CF' prefixes
- Ignore types with 'Malloc' prefixes

Configure

	Living	# Transitions
CFString (immutable)	80882	9
Malloc 32 Bytes	184	3
CFString (store)	10373	1
CFBasicHash (value-st...)	21422	
Malloc 48 Bytes	10132	
CFBasicHash (value-st...)	67.83 KB	472
Malloc 32 Bytes	71.17 KB	1274
CFBasicHash (value-st...)	00.00 KB	1033
CFBasicHash (value-st...)	17.13 KB	1554
CFString (store)	63.83 KB	455
Malloc 32 Bytes	37.85 KB	10135
CFString (immutable)	15.55 KB	5155

Allocations

Heapshot Analysis

Mark Heap

Allocation Lifespan

- All Objects Created
- Created & Still Living
- Created & Destroyed

Call Tree

- Separate by Category
- Separate by Category
- Call Tree
- Created & Destroyed
- Created & Still Living
- All Objects Created

Crash in Settings View

MXiPOS Target 00:00:20 Run 1 of 1

Instruments: Allocations

Extended Detail

Description

- Category: UIView
- Type: Zombie
- Pointer: 0x83bb2a0
- Retain Count: 0

Stack Trace

- __forwarding__
- _CF_forwarding_prep_0
- [UIResponder(Internal) _shouldUs...
- [UITextView shouldBeVisible]
- [UITextView appearOrFa...
- _57-[NSNotificationCenter addOb...
- __CFXNotificationPost_block_invoke_0
- _CFXNotificationPost
- [NSNotificationCenter postNotific...
- [NSNotificationCenter postNotific...
- [UIWindow makeKeyWindow]
- +-[UIWindow _pushKeyWindow:]
- [UIActionSheet(Private) _presentS...
- [UIActionSheetAccessibility(SafeC...
- [UIActionSheet(Private) presentSh...
- [UIActionSheet showInView:]
- [SettingsHomeVC resetDevice:]
- [NSObject performSelector:withO...
- [UIApplication sendAction:to:from...
- [UIApplication sendAction:toTarg...
- [UIControl sendAction:to:forEvent:]
- [UIControl(Internal) _sendActions...
- [UIControl touchesEnded:withEvent:]
- [UIWindow _sendTouchesForEvent:]
- [UIWindow sendEvent:]
- [UIApplication sendEvent:]
- _UIApplicationHandleEvent
- PurpleEventCallback
- __CFRunLoop_IS_CALLING_OUT_T...
- __CFRunLoopDoSource1
- __CFRunLoopRun
- CFRunLoopRunSpecific
- CFRunLoopRunInMode
- GSEventRunModal
- GSEventRun
- UIApplicationMain
- main

Allocations

Statistics Object Summary History: 0x83bb2a0

#	Address	Category	Event Type	RefCt	Timestamp	Size	Responsible Library	Responsible Caller
94	0x83bb2a0	UIView	Release	7	00:12.299.854	0	GraphicsServices	GSEventRunModal
95	0x83bb2a0	UIView	Release	6	00:12.299.855	0	GraphicsServices	GSEventRunModal
96	0x83bb2a0	UIView	Release	5	00:12.299.856	0	GraphicsServices	GSEventRunModal
97	0x83bb2a0	UIView	Release	4	00:12.299.856	0	GraphicsServices	GSEventRunModal
98	0x83bb2a0	UIView	Release	3	00:12.299.859	0	GraphicsServices	GSEventRunModal
99	0x83bb2a0	UIView	Retain	4	00:14.413.281	0	UIKit	-[UIViewController view]
100	0x83bb2a0	UIView	Autorelease		00:14.413.282	0	UIKit	-[UIViewController view]
101	0x83bb2a0	UIView	Retain	5	00:14.438.936	0	UIKit	-[UIViewController view]
102	0x83bb2a0	UIView	Autorelease		00:14.438.937	0	UIKit	-[UIViewController view]
103	0x83bb2a0	UIView	Retain	6	00:14.438.939	0	UIKit	-[UIViewController view]
104	0x83bb2a0	UIView	Autorelease		00:14.438.940	0	UIKit	-[UIViewController view]
105	0x83bb2a0	UIView	Release	5	00:14.440.526	0	Foundation	-[NSAutoreleasePool release]
106	0x83bb2a0	UIView	Release	4	00:14.440.527	0	Foundation	-[NSAutoreleasePool release]
107	0x83bb2a0	UIView	Release	3	00:14.441.154	0	Foundation	-[NSAutoreleasePool release]
108	0x83bb2a0	UIView	Retain	4	00:14.811.910	0	UIKit	-[UIViewController view]
109	0x83bb2a0	UIView	Autorelease		00:14.811.911	0	UIKit	-[UIViewController view]
110	0x83bb2a0	UIView	Retain	5	00:14.811.912	0	UIKit	-[UIViewController view]
111	0x83bb2a0	UIView	Autorelease		00:14.811.913	0	UIKit	-[UIViewController view]
112	0x83bb2a0	UIView	Retain	6	00:14.812.104	0	UIKit	-[UIViewController view]
113	0x83bb2a0	UIView	Autorelease		00:14.812.104	0	UIKit	-[UIViewController view]
114	0x83bb2a0	UIView	Release	5	00:14.812.108	0	UIKit	-[UIView(Internal) _invalidateSubvi...
115	0x83bb2a0	UIView	Release	4	00:14.812.139	0	UIKit	-[UIView(Hierarchy) removeFromS...
116	0x83bb2a0	UIView	Retain	5	00:14.812.175	0	UIKit	-[UIViewController view]
117	0x83bb2a0	UIView	Autorelease		00:14.812.176	0	UIKit	-[UIViewController view]
118	0x83bb2a0	UIView	Release	4	00:14.814.465	0	UIKit	-[UIViewController dealloc]
119	0x83bb2a0	UIView	Release	3	00:14.814.708	0	GraphicsServices	GSEventRunModal
120	0x83bb2a0	UIView	Release	2	00:14.814.720	0	GraphicsServices	GSEventRunModal
121	0x83bb2a0	UIView	Release	1	00:14.814.781	0	GraphicsServices	GSEventRunModal
122	0x83bb2a0	UIView	Release	0	00:14.814.783	0	GraphicsServices	GSEventRunModal
123	0x83bb2a0	UIView	Zombie	-1	00:19.626.037	0	UIKit	-[UIResponder(Internal) _shouldU...

Crash in Settings View

MXiPOS Target 00:00:20 Run 1 of 1

Instruments

Allocations

Extended Detail

Annotations

Source

100.00% [actionSheet showInView:self.view];

Allocations

Statistics

Object Summary

History: 0x83bb2a0

[-[SettingsHomeVC resetDevice:]]

SettingsHomeVC.m

```
97 {
98     // Return YES for supported orientations
99     return (interfaceOrientation == UIInterfaceOrientationPortrait);
100 }
101
102 - (IBAction)resetDevice:(id)sender
103 {
104     UIAlertController *actionSheet = [[UIAlertController alloc] initWithTitle:@"All merchant data will
105                                     be deleted. This action cannot be undone. Are you sure?"
106                                     delegate:self
107                                     cancelButtonTitle:@"Cancel"
108                                     destructiveButtonTitle:@"Reset Device"
109                                     otherButtonTitles:nil] autorelease];
110     actionSheet.actionSheetStyle = UIAlertControllerStyleBlackOpaque;
111     [actionSheet showInView:self.view];
112 }
113 #pragma mark - Actionsheet Methods
114
115 - (void)logout
116 {
117     [[LoginVC sharedInstance].menuVC logOff:nil];
118 }
119
120 - (void)actionSheet:(UIAlertController *)actionSheet clickedButtonAtIndex:(NSInteger)buttonIndex
121 {
122     if (buttonIndex == 0) {
123         [[LoginVC sharedInstance].menuVC logOff:nil];
124         [AppDelegate resetDevice];
125     }
126 }
```

Crash in Settings View

MXiPOS Target

00:00:20 Run 1 of 1

Instruments

Allocations

Extended Detail

Annotations

Source

100.00% [actionSheet showInView:self.view];

Statistics Object Summary History: 0x83bb2a0 M -[SettingsHomeVC resetDevice:]

Call Trees

Objects List

Heapshots

Console

```
100 }
101
102 - (IBAction)resetDevice:(id)sender
103 {
104     UIAlertController *actionSheet = [[UIAlertController alloc] initWithTitle:@"All merchant data will
105                                     be deleted. This action cannot be undone. Are you sure?"
106                                     delegate:self
107                                     cancelButtonTitle:@"Cancel"
108                                     destructiveButtonTitle:@"Reset Device"
109                                     otherButtonTitles:nil] autorelease];
110     actionSheet.actionSheetStyle = UIAlertControllerStyleBlackOpaque;
111     [actionSheet showInView:self.view];
112 }
113 #pragma mark - Actionsheet Methods
114
115 - (void)logout
116 {
117     [[LoginVC sharedInstance].menuVC logOff:nil];
118 }
119
120 - (void)actionSheet:(UIAlertController *)actionSheet clickedButtonAtIndex:(NSInteger)buttonIndex
121 {
122     if (buttonIndex == 0) {
123         [[LoginVC sharedInstance].menuVC logOff:nil];
124     }
125 }
```


Crash in Settings View

MXiPOS Target

00:00:20 Run 1 of 1

Involves Symbol

Instruments

Allocations

Extended Detail

Heaviest Stack Trace

Bytes Used	Count	Symbol Name
21.20 MB 86.6%	153374	start MXiPOS
2.41 MB 9.8%	14329	thread_start libsystem_c.dylib
690.52 KB 2.7%	3418	start_wqthread libsystem_c.dylib
171.64 KB 0.6%	1440	_dyld_start dyld

Call Trees

Call Tree

Heapshot Analysis

Allocation Lifespan

Call Tree Constraints

Specific Data Mining

21.20 MB start

21.20 MB main

21.13 MB UIApplicationMain

12.47 MB -[UIApplication _run]

9.76 MB CFRunLoopRunInMode

9.76 MB CFRunLoopRunSpecific

9.76 MB __CFRunLoopRun

9.76 MB __CFRunLoopDoSource1

9.76 MB __CFRUNLOOP_IS_CALLING_OUT_TO_A...

9.76 MB PurpleEventCallback

9.76 MB _UIApplicationHandleEvent

9.67 MB -[UIApplication sendEvent:]

9.67 MB -[UIApplication handleEvent:withNewEvent:]

9.67 MB -[UIApplication _runWithURL:payload:la...

5.55 MB -[UIApplication _stopDeactivatingForRe...

5.53 MB -[AppDelegate applicationDidBecomeA...

5.52 MB -[AppDelegate resumeSession:isFreshL...

5.50 MB -[LoginVC resumeSession]

3.62 MB -[SMSLoadingView show]

3.27 MB +[UIImage(SMS) smsImage:size:]

2.82 MB +[NSBundle bundleWithIdentifier:]

2.82 MB CFBundleGetBundleWithIdentifier

2.77 MB _CFBundleEnsureAllBundlesUpToDateA...

2.73 MB _CFBundleEnsureBundleExistsForImagePath

2.13 MB _CFBundleDlfcnCheckLoaded

2.06 MB _CFBundleCopyExecutableURLInDirectory2

1.72 MB _CFBundleCopyExecutableURLRaw

560.44 KB CFURLCreateWithFileSystemPathRelati...

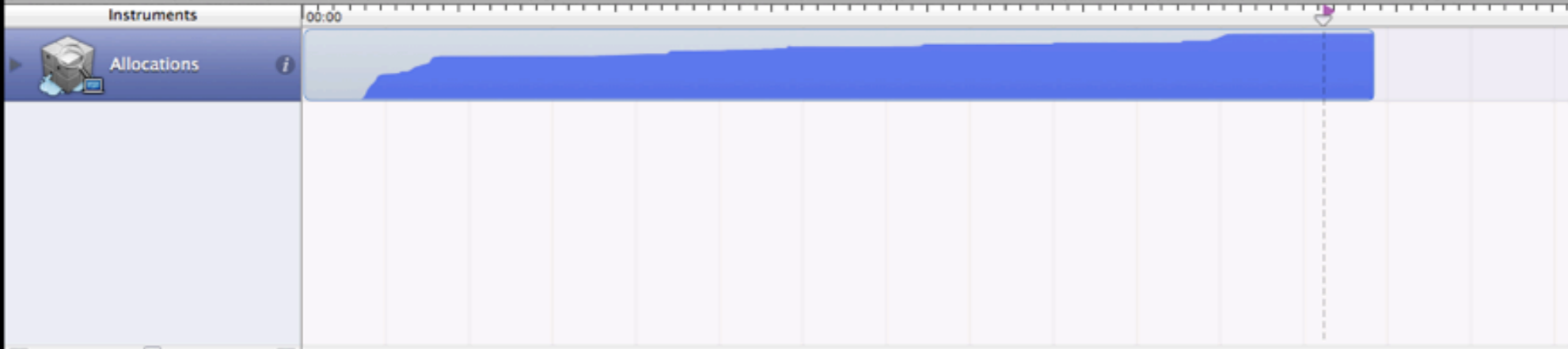
544.27 KB _CFURLInit

538.88 KB CFURLCopyAbsoluteURL

388.59 KB resolveAbsoluteURLString

171.97 KB CFAllocatorAllocate

171.97 KB _CFAllocatorSystemAllocate



Call Tree

Bytes Used	Count	Symbol Name
10.25 MB	51358	malloc libsystem_c.dylib
6.19 MB	63748	__CFAllocatorSystemAllocate CoreFoundation
2.05 MB	8798	sqlite3MemMalloc libsqlite3.dylib
2.00 MB	894	realloc libsystem_c.dylib
1.59 MB	18422	calloc libsystem_c.dylib
796.00 KB	6326	_malloc_internal libobjc.A.dylib
425.97 KB	2558	_memdup_internal libobjc.A.dylib
369.27 KB	10261	_calloc_internal libobjc.A.dylib
163.94 KB	4307	mem_alloc QuartzCore
136.00 KB	34	objc_autoreleasePoolPush libobjc.A.dylib
123.64 KB	480	NSZoneMalloc Foundation
118.52 KB	159	-[NSConcreteMutableData initWithCapacity:] Foundation
60.31 KB	12	newFetchedRowsForFetchPlan_MT CoreData
40.11 KB	1309	_strdup_internal libobjc.A.dylib
38.17 KB	87	NSAllocateCollectable Foundation
32.20 KB	171	__CFAllocatorSystemReallocate CoreFoundation
26.09 KB	2268	mem_alloc CoreGraphics
22.38 KB	358	_dispatch_continuation_alloc_from_heap libdispatch.dylib
18.61 KB	32	sqlite3MemRealloc libsqlite3.dylib
13.77 KB	54	-[NSConcreteMutableData initWithLength:] Foundation
11.03 KB	135	_PFAllocateObjects CoreData
8.00 KB	2	(anonymous namespace)::AutoreleasePoolPage::autoreleaseSlow(objc_object*) libobjc.A.dylib
7.25 KB	215	_calloc_class libobjc.A.dylib
7.08 KB	164	_PFAllocateObject CoreData
2.98 KB	47	mem_alloc0 QuartzCore
2.80 KB	39	PF_Tiger_CFDictionaryCreate CoreData
2.02 KB	71	NSAllocateScannedUncollectable Foundation
1.98 KB	45	PF_CALLOC_OBJECT_ARRAY CoreData
1.94 KB	51	PF_CALLOC_UNSCANNED_BYTES CoreData
1.19 KB	57	PF_ALLOCATE_OBJECT_ARRAY CoreData
1.12 KB	43	PF_CALLOC_SCANNED_BYTES CoreData

Extended Detail

Heaviest Stack Trace

10.25 MB	malloc
4.05 MB	vasprintf_I
4.05 MB	asprintf
3.26 MB	CFRelease
357.62 KB	objc_release
357.62 KB	(anonymous namespace)::Autorelease...
357.62 KB	_CFAutoreleasePoolPop
144.12 KB	-[NSAutoreleasePool release]
100.12 KB	_UIApplicationHandleEvent
100.12 KB	PurpleEventCallback
100.12 KB	__CFRunLoop_IS_CALLING_OUT_TO_A...
100.12 KB	__CFRunLoopDoSource1
100.12 KB	__CFRunLoopRun
100.12 KB	CFRunLoopRunSpecific
100.12 KB	CFRunLoopRunInMode
75.25 KB	GSEventRunModal
75.25 KB	GSEventRun
75.25 KB	UIApplicationMain
75.25 KB	main
75.25 KB	start

Crash in Settings View

MXIPOS Target 00:00:20 Run 1 of 1

Instruments Allocations

Extended Detail

Heaviest Stack Trace

- 8.73 MB main
- 8.73 MB start

Call Tree

Bytes Used	Count	Symbol Name
8.73 MB 35.7%	68872	main MXIPOS
3.27 MB 13.3%	26059	+[[UIImage(SMS) smsImage:size:] MXIPOS
1.79 MB 7.3%	1463	-[RKDotNetDateFormatter init] MXIPOS
837.38 KB 3.3%	5572	-[AppDelegate persistentStoreCoordinator] MXIPOS
784.52 KB 3.1%	6768	-[AppDelegate managedObjectModel] MXIPOS
649.92 KB 2.5%	5208	-[AppDelegate application:didFinishLaunchingWithOptions:] MXIPOS
487.73 KB 1.9%	2789	-[EulaVC accept:] MXIPOS
446.47 KB 1.7%	2378	+[[SFHFKeychainUtils getPasswordForUsername:andServiceName:error:] MXIPOS
363.00 KB 1.4%	1151	-[RKClient init] MXIPOS
360.73 KB 1.4%	2931	-[SMSHTTPRequest sendRequestWithQuery:method:body:contentType:] MXIPOS
360.56 KB 1.4%	3479	-[SMSLoadingView show] MXIPOS
179.94 KB 0.7%	2067	-[MerchantsVC request:receivedResponseWithStatusCode:] MXIPOS
171.42 KB 0.6%	1137	-[PPSMenuVC selectItem:] MXIPOS
160.67 KB 0.6%	1568	-[SMSHTTPRequest connection:didReceiveResponse:] MXIPOS
139.23 KB 0.5%	667	+[[RKObjectMapping(DateAndTimeFormatting) addDefaultDateFormatterForString:inTimeZone:] MXIPOS
136.27 KB 0.5%	1243	+[[User loadUserWithUsername:moc:] MXIPOS
135.03 KB 0.5%	1362	-[LoginVC request:receivedData:] MXIPOS
129.11 KB 0.5%	1410	+[[Merchant setSharedMerchant:moc:] MXIPOS
125.05 KB 0.4%	1119	-[SMSHTTPRequest connection:willSendRequest:redirectResponse:] MXIPOS
119.28 KB 0.4%	730	-[PPSStatusController updateStatusOrb] MXIPOS
119.09 KB 0.4%	158	-[EulaVC viewDidLoad] MXIPOS
105.36 KB 0.4%	728	+[[PPSHTTPRequest signRequest:withPassword:sendToken:logSigParams:] MXIPOS
84.80 KB 0.3%	485	-[SMSHTTPRequest connectionDidFinishLoading:] MXIPOS
64.52 KB 0.2%	23	-[SOCPattern nonParameterCharacterSet] MXIPOS
57.84 KB 0.2%	102	-[SBJsonStreamWriter init] MXIPOS
51.44 KB 0.2%	348	+[[AppDelegate save] MXIPOS
50.55 KB 0.2%	381	-[Merchant addItem:ofEntityType:moc:] MXIPOS
49.45 KB 0.1%	31	-[SMSLoadingView drawRect:] MXIPOS
49.23 KB 0.1%	362	-[PPSStatusController init] MXIPOS
48.14 KB 0.1%	247	-[PPSViewController helpsAvailable] MXIPOS
46.47 KB 0.1%	291	+[[Merchant merchantById:moc:] MXIPOS

Crash in Settings View

MXIPOS Target 00:00:20 Run 1 of 1

Instruments Allocations

Extended Detail

Heaviest Stack Trace

- 3.27 MB +[UIImage(SMS) smsImage:size:]
- 3.27 MB -[SMSLoadingView show]
- 3.27 MB -[LoginVC resumeSession]
- 3.27 MB -[AppDelegate resumeSession:isFreshL...]
- 3.27 MB -[AppDelegate applicationDidBecomeA...]

Call Tree

Bytes Used	Count	Symbol Name
3.27 MB 13.3%	26059	+[UIImage(SMS) smsImage:size:] MXIPOS
1.79 MB 7.3%	1463	-[RKDotNetDateFormatter init] MXIPOS
837.97 KB 3.3%	5580	-[AppDelegate persistentStoreCoordinator] MXIPOS
784.72 KB 3.1%	6771	-[AppDelegate managedObjectModel] MXIPOS
650.22 KB 2.5%	5213	-[AppDelegate application:didFinishLaunchingWithOptions:] MXIPOS
487.78 KB 1.9%	2790	-[EulaVC accept:] MXIPOS
446.47 KB 1.7%	2378	+[SFHFKeychainUtils getPasswordForUsername:andServiceName:error:] MXIPOS
363.00 KB 1.4%	1151	-[RKClient init] MXIPOS
360.95 KB 1.4%	2935	-[SMSHTTPRequest sendRequestWithQuery:method:body:contentType:] MXIPOS
360.56 KB 1.4%	3479	-[SMSLoadingView show] MXIPOS
179.94 KB 0.7%	2067	-[MerchantsVC request:receivedResponseWithStatusCode:] MXIPOS
171.46 KB 0.6%	1138	-[PPSMenuVC selectItem:] MXIPOS
160.67 KB 0.6%	1568	-[SMSHTTPRequest connection:didReceiveResponse:] MXIPOS
139.23 KB 0.5%	667	+[[RKObjectMapping(DateAndTimeFormatting) addDefaultDateFormatterForString:inTimeZone:] MXIPOS
136.64 KB 0.5%	1249	+[[User loadUserWithUsername:moc:] MXIPOS
135.16 KB 0.5%	1364	-[LoginVC request:receivedData:] MXIPOS
129.11 KB 0.5%	1410	+[[Merchant setSharedMerchant:moc:] MXIPOS
125.05 KB 0.4%	1119	-[SMSHTTPRequest connection:willSendRequest:redirectResponse:] MXIPOS
119.28 KB 0.4%	730	-[PPSStatusController updateStatusOrb] MXIPOS
119.09 KB 0.4%	158	-[EulaVC viewDidLoad] MXIPOS
105.36 KB 0.4%	728	+[[PPSHTTPRequest signRequest:withPassword:sendToken:logSigParams:] MXIPOS
84.80 KB 0.3%	485	-[SMSHTTPRequest connectionDidFinishLoading:] MXIPOS
64.52 KB 0.2%	23	-[SOCPattern nonParameterCharacterSet] MXIPOS
57.84 KB 0.2%	102	-[SBJsonStreamWriter init] MXIPOS
51.52 KB 0.2%	349	+[[AppDelegate save] MXIPOS
50.55 KB 0.2%	381	-[Merchant addItem:ofEntityType:moc:] MXIPOS
50.16 KB 0.2%	38	-[SMSLoadingView drawRect:] MXIPOS
49.28 KB 0.1%	363	-[PPSStatusController init] MXIPOS
48.14 KB 0.1%	247	-[PPSViewController helpsAvailable] MXIPOS
46.47 KB 0.1%	291	+[[Merchant merchantById:moc:] MXIPOS
40.25 KB 0.1%	16	-[SBJsonTokeniser init] MXIPOS

Crash in Settings View

MXIPOS Target 00:00:20 Run 1 of 1

Instruments Allocations

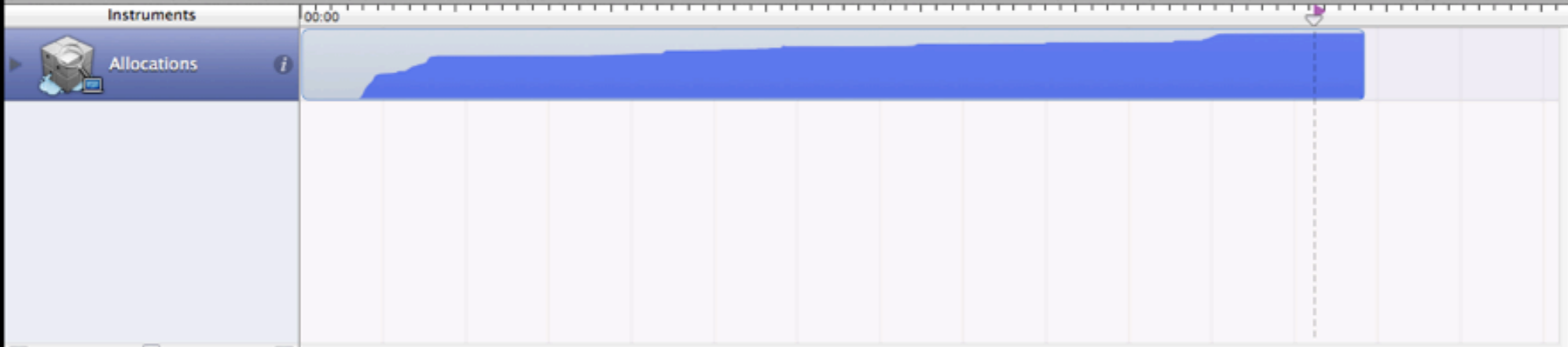
Extended Detail

Heaviest Stack Trace

- 3.27 MB +[UIImage(SMS) smsImage:size:]
- 3.27 MB -[SMSLoadingView show]
- 3.27 MB -[LoginVC resumeSession]
- 3.27 MB -[AppDelegate resumeSession:isFreshL...]
- 3.27 MB -[AppDelegate applicationDidBecomeA...]

Call Tree

Bytes Used	Count	Symbol Name
3.27 MB 13.3%	26059	+[UIImage(SMS) smsImage:size:] MXIPOS
3.27 MB 13.3%	26059	-[SMSLoadingView show] MXIPOS
3.27 MB 13.3%	26059	-[LoginVC resumeSession] MXIPOS
3.27 MB 13.3%	26059	-[AppDelegate resumeSession:isFreshLaunch:] MXIPOS
3.27 MB 13.3%	26059	-[AppDelegate applicationDidBecomeActive:] MXIPOS
1.79 MB 7.3%	1463	-[RKDotNetDateFormatter init] MXIPOS
1.79 MB 7.3%	1463	+ [RKDotNetDateFormatter dotNetDateFormatterWithTimeZone:] MXIPOS
1.79 MB 7.3%	1463	+ [RKDotNetDateFormatter dotNetDateFormatter] MXIPOS
1.79 MB 7.3%	1463	+ [PPSObjectMapping initialize] MXIPOS
1.79 MB 7.3%	1463	- [PPSCommandFactory initializeCommand:] MXIPOS
1.79 MB 7.3%	1463	- [PPSCommandFactory commandWithClass:delegate:] MXIPOS
1.79 MB 7.3%	1463	- [AuthorizationService init] MXIPOS
1.79 MB 7.3%	1463	+ [AuthorizationService initialize] MXIPOS
1.79 MB 7.3%	1463	+ [ServiceManager instance] MXIPOS
1.79 MB 7.3%	1463	+ [ServiceManager setup] MXIPOS
1.79 MB 7.3%	1463	- [AppDelegate application:didFinishLaunchingWithOptions:] MXIPOS
837.97 KB 3.3%	5580	- [AppDelegate persistentStoreCoordinator] MXIPOS
784.72 KB 3.1%	6771	- [AppDelegate managedObjectModel] MXIPOS
650.22 KB 2.5%	5213	- [AppDelegate application:didFinishLaunchingWithOptions:] MXIPOS
487.78 KB 1.9%	2790	- [EulaVC accept:] MXIPOS
446.47 KB 1.7%	2378	+ [SFHFKeychainUtils getPasswordForUsername:andServiceName:error:] MXIPOS
363.00 KB 1.4%	1151	- [RKClient init] MXIPOS
360.95 KB 1.4%	2935	- [SMSHTTPRequest sendRequestWithQuery:method:body:contentType:] MXIPOS
360.56 KB 1.4%	3479	- [SMSLoadingView show] MXIPOS
179.94 KB 0.7%	2067	- [MerchantsVC request:receivedResponseWithStatusCode:] MXIPOS
171.46 KB 0.6%	1138	- [PPSMenuVC selectItem:] MXIPOS
160.67 KB 0.6%	1568	- [SMSHTTPRequest connection:didReceiveResponse:] MXIPOS
139.23 KB 0.5%	667	+ [RKObjectMapping(DateAndTimeFormatting) addDefaultDateFormatterForString:inTimeZone:] MXIPOS
136.64 KB 0.5%	1249	+ [User loadUserWithUsername:moc:] MXIPOS
135.16 KB 0.5%	1364	- [LoginVC request:receivedData:] MXIPOS
129.11 KB 0.5%	1410	+ [Merchant setSharedMerchant:moc:] MXIPOS



Call Tree

Bytes Used	Count	Symbol Name
304 Bytes 0.0%	4	▸-[EulaVC init] MXIPOS
3.09 KB 0.0%	4	▸-[Printer init] MXIPOS
832 Bytes 0.0%	5	▸-[MessageService request:receivedData:] MXIPOS
432 Bytes 0.0%	5	▸-[LoginVC sendResumeRequest] MXIPOS
144 Bytes 0.0%	5	▸-[RKRequestQueue addRequest:] MXIPOS
160 Bytes 0.0%	5	▸-[RKObjectMappingOperation validateValue:atKeyPath:] MXIPOS
640 Bytes 0.0%	5	▸-[MerchantsVC dealloc] MXIPOS
208 Bytes 0.0%	5	▸-[RKRequestQueue loadNextInQueueDelayed] MXIPOS
208 Bytes 0.0%	5	▸+[RKObjectMapping(DateAndTimeFormatting) defaultDateFormatters] MXIPOS
176 Bytes 0.0%	5	▸+[DiscountsService instance] MXIPOS
336 Bytes 0.0%	5	▸-[NSDate(NSDate_PPS) timestampString] MXIPOS
496 Bytes 0.0%	5	▸-[RKObjectLoader didFinishLoad:] MXIPOS
1.28 KB 0.0%	6	▸-[PPSServiceCommand objectLoader:didLoadObject:] MXIPOS
256 Bytes 0.0%	6	▸-[RKObjectMappingProvider init] MXIPOS
288 Bytes 0.0%	6	▸+[RKPathMatcher matcherWithPattern:] MXIPOS
96 Bytes 0.0%	6	▸-[PPSDeviceSetting initWithLabel:value:] MXIPOS
992 Bytes 0.0%	6	▸-[RKReachabilityObserver initWithHostname:] MXIPOS
240 Bytes 0.0%	6	▸-[RKObjectMappingProvider serializationMappingForClass:] MXIPOS
2.22 KB 0.0%	6	▸-[RKRequestQueue removeRequest:decrementCounter:] MXIPOS
96 Bytes 0.0%	6	▸-[SMSHTTPRequest connection:didSendBodyData:totalBytesWritten:totalBytesExpectedToWrite:] MXIPOS
752 Bytes 0.0%	6	▸-[LoginVC init] MXIPOS
2.89 KB 0.0%	7	▸-[SMSHTTPRequest connection:didReceiveData:] MXIPOS
1.75 KB 0.0%	7	▸-[Linea init] MXIPOS
304 Bytes 0.0%	7	▸-[Reachability startNotifier] MXIPOS
448 Bytes 0.0%	7	▸-[PPSResponseMessage dealloc] MXIPOS
304 Bytes 0.0%	7	▸-[RKObjectSerializer dealloc] MXIPOS
304 Bytes 0.0%	7	▸-[InventoryResult dealloc] MXIPOS
1.08 KB 0.0%	7	▸-[RKClient reachabilityWasDetermined:] MXIPOS
304 Bytes 0.0%	7	▸-[PPSGeolocationModel dealloc] MXIPOS
256 Bytes 0.0%	7	▸+[RKObjectMapping mappingForClass:] MXIPOS
320 Bytes 0.0%	7	▸-[RKRequestSerialization dealloc] MXIPOS

Extended Detail

Heaviest Stack Trace

5 -[MerchantsVC dealloc]

Crash in Settings View

MXiPOS Target 00:00:20 Run 1 of 1

Instruments Allocations

Extended Detail

Annotations

Source
92.76% [super dealloc];
7.24% [merchants release];

Call Trees Call Tree -[MerchantsVC dealloc]

MerchantsVC.m

```
37 [self setTableView:nil];
38 }
39
40 -(void)viewWillDisappear:(BOOL)animated
41 {
42     [self.httpRequest cancel];
43     [super viewWillDisappear:animated];
44 }
45
46 -(void)dealloc
47 {
48     [merchants release]; 7.2%
49
50     [tableView release];
51     [super dealloc]; 92.8%
52 }
53
54 -(void)logout:(id)sender
55 {
56     LoginVC *loginVC = (LoginVC *)[self.navigationController.viewControllers
57         objectAtIndex:0];
58     [loginVC logOff];
59     [self.navigationController popViewControllerAnimated:YES];
60 }
61
62 -(void)registerDeviceWithMerchantId:(NSNumber *)mid
63 {
64     NSMutableDictionary *params = [NSMutableDictionary dictionary];
```

Crash in Settings View

MXIPOS Target 00:00:20 Run 1 of 1

Record Inspection Range View Library Search dealloc

Instruments Allocations

Extended Detail Heaviest Stack Trace 5 -[MerchantsVC dealloc]

Allocations Call Trees Call Tree

Bytes Used	Count	Symbol Name
128 Bytes 0.0%	1	▶-[SMSHTTPRequest cleanUp] MXIPOS
256 Bytes 0.0%	2	▶-[PPSViewController setBindings:] MXIPOS
640 Bytes 0.0%	5	▶-[MerchantsVC dealloc] MXIPOS
304 Bytes 0.0%	7	▶-[RKObjectSerializer dealloc] MXIPOS
448 Bytes 0.0%	7	▶-[PPSResponseMessage dealloc] MXIPOS
432 Bytes 0.0%	7	▶-[CommandServiceResponse dealloc] MXIPOS
304 Bytes 0.0%	7	▶-[InventoryResult dealloc] MXIPOS
304 Bytes 0.0%	7	▶-[PPSGeolocationModel dealloc] MXIPOS
320 Bytes 0.0%	7	▶-[RKRequestSerialization dealloc] MXIPOS
416 Bytes 0.0%	8	▶-[RKURL dealloc] MXIPOS
352 Bytes 0.0%	8	▶-[RKPathMatcher dealloc] MXIPOS
464 Bytes 0.0%	8	▶-[SOCPattern dealloc] MXIPOS
672 Bytes 0.0%	9	▶-[PPSCommandSettings dealloc] MXIPOS
496 Bytes 0.0%	9	▶-[RKObjectMappingOperation dealloc] MXIPOS
496 Bytes 0.0%	9	▶-[RKObjectMapper dealloc] MXIPOS
576 Bytes 0.0%	9	▶-[PPSRequestMessage dealloc] MXIPOS
480 Bytes 0.0%	9	▶-[RKObjectRouter dealloc] MXIPOS
592 Bytes 0.0%	9	▶-[RKObjectMappingResult dealloc] MXIPOS
736 Bytes 0.0%	10	▶-[RKObjectMappingProvider dealloc] MXIPOS
688 Bytes 0.0%	10	▶-[SMSHTTPRequest dealloc] MXIPOS
816 Bytes 0.0%	11	▶-[RKResponse dealloc] MXIPOS
1.03 KB 0.0%	12	▶-[RKRequest dealloc] MXIPOS
1.30 KB 0.0%	16	▶-[SBJsonParser dealloc] MXIPOS
1.30 KB 0.0%	16	▶-[SBJsonStreamParser dealloc] MXIPOS
1.33 KB 0.0%	19	▶-[RKObjectMapping dealloc] MXIPOS
1008 Bytes 0.0%	20	▶-[SMSLoadingView dealloc] MXIPOS
2.22 KB 0.0%	23	▶-[SBJsonWriter dealloc] MXIPOS
2.23 KB 0.0%	24	▶-[SBJsonTokeniser dealloc] MXIPOS
3.25 KB 0.0%	32	▶-[SBJsonStreamParserAdapter dealloc] MXIPOS
3.11 KB 0.0%	33	▶-[RKObjectAttributeMapping dealloc] MXIPOS
4.19 KB 0.0%	39	▶-[SBJsonStreamWriter dealloc] MXIPOS

Heapshot Analysis Mark Heap

Allocation Lifespan

- All Objects Created
- Created & Still Living
- Created & Destroyed

Call Tree

- Separate by Category
- Separate by Thread
- Invert Call Tree
- Hide Missing Symbols
- Hide System Libraries
- Show Obj-C Only
- Flatten Recursion
- Call Tree Constraints
- Specific Data Mining

Crash in Settings View

MXIPOS Target 00:00:20 Run 1 of 1

Record Inspection Range View Library

Search dealloc

Instruments

Allocations

Extended Detail

Heaviest Stack Trace

- 7 -[SBJsonStreamParserAdapter dealloc]
- 7 -[SBJsonParser objectWithData:]
- 240.0 -[SBJsonParser objectWithString:]
- 240.0 -[NSString(NSString_SBJsonParsing) JSONValue]
- 240.0 -[SMSHTTPRequest connectionDidFinishLoading:]
- 240.0 -[PPSHTTPRequest connectionDidFinishLoading:]

Allocations Call Trees Call Tree

	Bytes Used	Count	Symbol Name
	176 Bytes 0.0%	5	-[CommandServiceResponse dealloc] MXIPOS
	176 Bytes 0.0%	6	-[InventoryResult dealloc] MXIPOS
	160 Bytes 0.0%	5	-[PPSCommandSettings dealloc] MXIPOS
	176 Bytes 0.0%	6	-[PPSGeolocationModel dealloc] MXIPOS
	192 Bytes 0.0%	6	▶-[PPSRequestMessage dealloc] MXIPOS
	320 Bytes 0.0%	6	▶-[PPSResponseMessage dealloc] MXIPOS
	352 Bytes 0.0%	10	▶-[RKObjectAttributeMapping dealloc] MXIPOS
	240 Bytes 0.0%	7	▶-[RKObjectMapper dealloc] MXIPOS
	320 Bytes 0.0%	10	-[RKObjectMapping dealloc] MXIPOS
	240 Bytes 0.0%	7	▶-[RKObjectMappingOperation dealloc] MXIPOS
	224 Bytes 0.0%	6	▶-[RKObjectMappingProvider dealloc] MXIPOS
	208 Bytes 0.0%	6	-[RKObjectMappingResult dealloc] MXIPOS
	192 Bytes 0.0%	5	▶-[RKObjectRouter dealloc] MXIPOS
	176 Bytes 0.0%	6	▶-[RKObjectSerializer dealloc] MXIPOS
	224 Bytes 0.0%	7	▶-[RKPathMatcher dealloc] MXIPOS
	160 Bytes 0.0%	5	▶-[RKRequest dealloc] MXIPOS
	192 Bytes 0.0%	6	▶-[RKRequestSerialization dealloc] MXIPOS
	176 Bytes 0.0%	6	▶-[RKResponse dealloc] MXIPOS
	160 Bytes 0.0%	6	▶-[RKURL dealloc] MXIPOS
	304 Bytes 0.0%	8	▶-[SBJsonParser dealloc] MXIPOS
	224 Bytes 0.0%	7	▶-[SBJsonStreamParser dealloc] MXIPOS
	240 Bytes 0.0%	7	▶-[SBJsonStreamParserAdapter dealloc] MXIPOS
	160 Bytes 0.0%	5	-[SBJsonStreamWriter dealloc] MXIPOS
	224 Bytes 0.0%	7	▶-[SBJsonTokeniser dealloc] MXIPOS
	224 Bytes 0.0%	7	▶-[SBJsonWriter dealloc] MXIPOS
	176 Bytes 0.0%	6	▶-[SMSHTTPRequest dealloc] MXIPOS
	464 Bytes 0.0%	11	-[SMSLoadingView dealloc] MXIPOS
	3.35 KB 0.1%	43	▶-[SMSViewController dealloc] MXIPOS
	208 Bytes 0.0%	6	▶-[SOCPattern dealloc] MXIPOS
	1.50 KB 0.0%	48	▶-[UIView(PPS) dealloc] MXIPOS

Heapshot Analysis

Allocation Lifespan

- All Objects Created
- Created & Still Living
- Created & Destroyed

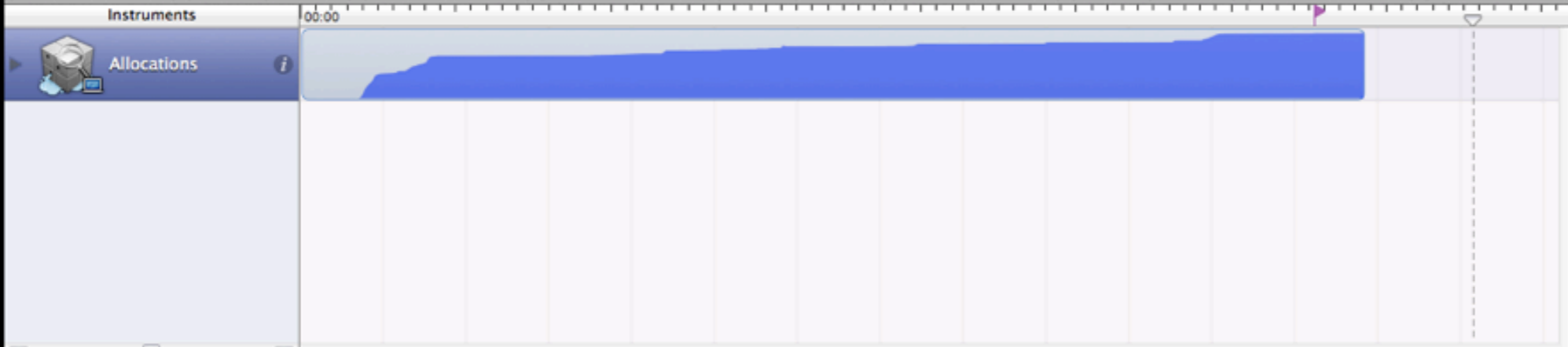
Call Tree

- Separate by Category
- Separate by Thread
- Invert Call Tree
- Hide Missing Symbols
- Hide System Libraries
- Show Obj-C Only
- Flatten Recursion

Call Tree Constraints

Specific Data Mining

Symbol Library Restore



Call Tree

Bytes Used	Count	Symbol Name
176 Bytes 0.0%	5	-[CommandServiceResponse dealloc] MXIPOS
176 Bytes 0.0%	6	-[InventoryResult dealloc] MXIPOS
160 Bytes 0.0%	5	-[PPSCommandSettings dealloc] MXIPOS
176 Bytes 0.0%	6	-[PPSGeolocationModel dealloc] MXIPOS
192 Bytes 0.0%	6	-[PPSRequestMessage dealloc] MXIPOS
320 Bytes 0.0%	6	-[PPSResponseMessage dealloc] MXIPOS
352 Bytes 0.0%	10	-[RKObjectAttributeMapping dealloc] MXIPOS
240 Bytes 0.0%	7	-[RKObjectMapper dealloc] MXIPOS
320 Bytes 0.0%	10	-[RKObjectMapping dealloc] MXIPOS
240 Bytes 0.0%	7	-[RKObjectMappingOperation dealloc] MXIPOS
224 Bytes 0.0%	6	-[RKObjectMappingProvider dealloc] MXIPOS
208 Bytes 0.0%	6	-[RKObjectMappingResult dealloc] MXIPOS
192 Bytes 0.0%	5	-[RKObjectRouter dealloc] MXIPOS
176 Bytes 0.0%	6	-[RKObjectSerializer dealloc] MXIPOS
224 Bytes 0.0%	7	-[RKPathMatcher dealloc] MXIPOS
160 Bytes 0.0%	5	-[RKRequest dealloc] MXIPOS
192 Bytes 0.0%	6	-[RKRequestSerialization dealloc] MXIPOS
176 Bytes 0.0%	6	-[RKResponse dealloc] MXIPOS
160 Bytes 0.0%	6	-[RKURL dealloc] MXIPOS
304 Bytes 0.0%	8	-[SBJsonParser dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonStreamParser dealloc] MXIPOS
240 Bytes 0.0%	7	-[SBJsonStreamParserAdapter dealloc] MXIPOS
160 Bytes 0.0%	5	-[SBJsonStreamWriter dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonTokeniser dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonWriter dealloc] MXIPOS
176 Bytes 0.0%	6	-[SMSHTTPRequest dealloc] MXIPOS
464 Bytes 0.0%	11	-[SMSLoadingView dealloc] MXIPOS
3.35 KB 0.1%	43	-[SMSViewController dealloc] MXIPOS
208 Bytes 0.0%	6	-[SOCPattern dealloc] MXIPOS
1.50 KB 0.0%	48	-[UIView(PPS) dealloc] MXIPOS

Extended Detail

Heaviest Stack Trace

- 160.0 -[RKURL dealloc]
- 160.0 -[RKRequest dealloc]
- 160.0 -[RKObjectLoader dealloc]

Crash in Settings View

MXIPOS Target 00:00:20 Run 1 of 1

Record Inspection Range View Library

Instruments Allocations

Extended Detail

Heaviest Stack Trace

- 160.0 -[RKURL dealloc]
- 160.0 -[RKRequest dealloc]
- 160.0 -[RKObjectLoader dealloc]

Allocations Call Trees Call Tree

Bytes Used	Count	Symbol Name
176 Bytes 0.0%	5	-[CommandServiceResponse dealloc] MXIPOS
176 Bytes 0.0%	6	-[InventoryResult dealloc] MXIPOS
160 Bytes 0.0%	5	-[PPSCommandSettings dealloc] MXIPOS
176 Bytes 0.0%	6	-[PPSGeolocationModel dealloc] MXIPOS
192 Bytes 0.0%	6	▶-[PPSRequestMessage dealloc] MXIPOS
320 Bytes 0.0%	6	▶-[PPSResponseMessage dealloc] MXIPOS
352 Bytes 0.0%	10	▶-[RKObjectAttributeMapping dealloc] MXIPOS
240 Bytes 0.0%	7	▶-[RKObjectMapper dealloc] MXIPOS
320 Bytes 0.0%	10	▶-[RKObjectMapping dealloc] MXIPOS
240 Bytes 0.0%	7	▶-[RKObjectMappingOperation dealloc] MXIPOS
224 Bytes 0.0%	6	▶-[RKObjectMappingProvider dealloc] MXIPOS
208 Bytes 0.0%	6	▶-[RKObjectMappingResult dealloc] MXIPOS
192 Bytes 0.0%	5	▶-[RKObjectRouter dealloc] MXIPOS
176 Bytes 0.0%	6	▶-[RKObjectSerializer dealloc] MXIPOS
224 Bytes 0.0%	7	▶-[RKPathMatcher dealloc] MXIPOS
160 Bytes 0.0%	5	▶-[RKRequest dealloc] MXIPOS
192 Bytes 0.0%	6	▶-[RKRequestSerialization dealloc] MXIPOS
176 Bytes 0.0%	6	▶-[RKResponse dealloc] MXIPOS
160 Bytes 0.0%	6	▶-[RKURL dealloc] MXIPOS
304 Bytes 0.0%	8	▶-[SBJsonParser dealloc] MXIPOS
224 Bytes 0.0%	7	▶-[SBJsonStreamParser dealloc] MXIPOS
240 Bytes 0.0%	7	▶-[SBJsonStreamParserAdapter dealloc] MXIPOS
160 Bytes 0.0%	5	▶-[SBJsonStreamWriter dealloc] MXIPOS
224 Bytes 0.0%	7	▶-[SBJsonTokeniser dealloc] MXIPOS
224 Bytes 0.0%	7	▶-[SBJsonWriter dealloc] MXIPOS
176 Bytes 0.0%	6	▶-[SMSHTTPRequest dealloc] MXIPOS
464 Bytes 0.0%	11	▶-[SMSLoadingView dealloc] MXIPOS
3.35 KB 0.1%	43	▶-[SMSViewController dealloc] MXIPOS
208 Bytes 0.0%	6	▶-[SOCPattern dealloc] MXIPOS
1.50 KB 0.0%	48	▶-[UIView(PPS) dealloc] MXIPOS

Symbol Library Restore

↑

Crash in Settings View

MXIPOS Target 00:00:20 Run 1 of 1

Record Inspection Range View Library

Search dealloc

Instruments

Allocations

Extended Detail

Heaviest Stack Trace

- 304.0 -[SBJsonParser dealloc]
- 304.0 -[NSString(NSString_SBJsonParsing) JSONValue]
- 304.0 -[SMSHTTPRequest connectionDidFinishLoading:]
- 304.0 -[PPSHTTPRequest connectionDidFinishLoading:]

Allocations

Heapshot Analysis

Mark Heap

Allocation Lifespan

- All Objects Created
- Created & Still Living
- Created & Destroyed

Call Tree

- Separate by Category
- Separate by Thread
- Invert Call Tree
- Hide Missing Symbols
- Hide System Libraries
- Show Obj-C Only
- Flatten Recursion

Call Tree Constraints

Specific Data Mining

- [RKObjectAttri... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge

Symbol Library Restore

Bytes Used	Count	Symbol Name
176 Bytes 0.0%	5	-[CommandServiceResponse dealloc] MXIPOS
176 Bytes 0.0%	6	-[InventoryResult dealloc] MXIPOS
160 Bytes 0.0%	5	-[PPSCommandSettings dealloc] MXIPOS
176 Bytes 0.0%	6	-[PPSGeolocationModel dealloc] MXIPOS
192 Bytes 0.0%	6	-[PPSRequestMessage dealloc] MXIPOS
320 Bytes 0.0%	6	-[PPSResponseMessage dealloc] MXIPOS
688 Bytes 0.0%	23	-[RKObjectLoader dealloc] MXIPOS
176 Bytes 0.0%	5	-[RKObjectRelationshipMapping dealloc] MXIPOS
304 Bytes 0.0%	8	-[SBJsonParser dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonStreamParser dealloc] MXIPOS
240 Bytes 0.0%	7	-[SBJsonStreamParserAdapter dealloc] MXIPOS
160 Bytes 0.0%	5	-[SBJsonStreamWriter dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonTokeniser dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonWriter dealloc] MXIPOS
176 Bytes 0.0%	6	-[SMSHTTPRequest dealloc] MXIPOS
464 Bytes 0.0%	11	-[SMSLoadingView dealloc] MXIPOS
3.35 KB 0.1%	43	-[SMSViewController dealloc] MXIPOS
208 Bytes 0.0%	6	-[SOCPattern dealloc] MXIPOS
1.50 KB 0.0%	48	-[UIView(PPS) dealloc] MXIPOS

Crash in Settings View

Record Target: MXIPOS

Inspection Range: 00:00:20 Run 1 of 1

Search: dealloc

Instruments: Allocations

Extended Detail: Heaviest Stack Trace
688.0 -[RKObjectLoader dealloc]

Call Tree

Bytes Used	Count	Symbol Name
176 Bytes 0.0%	5	-[CommandServiceResponse dealloc] MXIPOS
176 Bytes 0.0%	6	-[InventoryResult dealloc] MXIPOS
160 Bytes 0.0%	5	-[PPSCommandSettings dealloc] MXIPOS
176 Bytes 0.0%	6	-[PPSGeolocationModel dealloc] MXIPOS
192 Bytes 0.0%	6	-[PPSRequestMessage dealloc] MXIPOS
320 Bytes 0.0%	6	-[PPSResponseMessage dealloc] MXIPOS
688 Bytes 0.0%	23	-[RKObjectLoader dealloc] MXIPOS
176 Bytes 0.0%	5	-[RKObjectRelationshipMapping dealloc] MXIPOS
304 Bytes 0.0%	8	-[SBJsonParser dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonStreamParser dealloc] MXIPOS
240 Bytes 0.0%	7	-[SBJsonStreamParserAdapter dealloc] MXIPOS
160 Bytes 0.0%	5	-[SBJsonStreamWriter dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonTokeniser dealloc] MXIPOS
224 Bytes 0.0%	7	-[SBJsonWriter dealloc] MXIPOS
176 Bytes 0.0%	6	-[SMSHTTPRequest dealloc] MXIPOS
464 Bytes 0.0%	11	-[SMSLoadingView dealloc] MXIPOS
3.35 KB 0.1%	43	-[SMSViewController dealloc] MXIPOS
208 Bytes 0.0%	6	-[SOCPattern dealloc] MXIPOS
1.50 KB 0.0%	48	-[UIView(PPS) dealloc] MXIPOS

Call Tree Constraints:

- Separate by Category
- Separate by Thread
- Invert Call Tree
- Hide Missing Symbols
- Hide System Libraries
- Show Obj-C Only
- Flatten Recursion

Specific Data Mining:

- [RKObjectAttri... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge

Buttons: Symbol Library Restore

Crash in Settings View

MXIPOS Target 00:00:20 Run 1 of 1

Record Inspection Range View Library

Instruments

Allocations

Extended Detail

Heaviest Stack Trace

176.0 -(CommandServiceResponse dealloc)

Allocations

Heapshot Analysis

Mark Heap

Allocation Lifespan

All Objects Created

Created & Still Living

Created & Destroyed

Call Tree

Separate by Category

Separate by Thread

Invert Call Tree

Hide Missing Symbols

Hide System Libraries

Show Obj-C Only

Flatten Recursion

Call Tree Constraints

Specific Data Mining

-[RKObjectAttri... Charge

-[RKObjectLoad... Charge

-[RKObjectMap... Charge

-[RKObjectMap... Charge

-[RKObjectMap... Charge

Symbol Library Restore

Bytes Used	Count	Symbol Name
176 Bytes 0.0%	5	-(CommandServiceResponse dealloc) MXIPOS
176 Bytes 0.0%	6	-(InventoryResult dealloc) MXIPOS
160 Bytes 0.0%	5	-(PPSCommandSettings dealloc) MXIPOS
176 Bytes 0.0%	6	-(PPSGeolocationModel dealloc) MXIPOS
192 Bytes 0.0%	6	-(PPSRequestMessage dealloc) MXIPOS
320 Bytes 0.0%	6	-(PPSResponseMessage dealloc) MXIPOS
176 Bytes 0.0%	6	-(SMSHTTPRequest dealloc) MXIPOS
464 Bytes 0.0%	11	-(SMSLoadingView dealloc) MXIPOS
3.35 KB 0.1%	43	-(SMSViewController dealloc) MXIPOS
208 Bytes 0.0%	6	-(SOCPattern dealloc) MXIPOS
1.50 KB 0.0%	48	-(UIView(PPS) dealloc) MXIPOS

Crash in Settings View

MXIPOS Target

00:00:20 Run 1 of 1

dealloc

Instruments

Allocations

Extended Detail

Heaviest Stack Trace

176.0 -[CommandServiceResponse dealloc]

Call Trees

Call Tree

Bytes Used	Count	Symbol Name
176 Bytes 0.0%	5	-[CommandServiceResponse dealloc] MXIPOS
176 Bytes 0.0%	6	-[InventoryResult dealloc] MXIPOS
160 Bytes 0.0%	5	-[PPSCommandSettings dealloc] MXIPOS
176 Bytes 0.0%	6	-[PPSGeolocationModel dealloc] MXIPOS
192 Bytes 0.0%	6	-[PPSRequestMessage dealloc] MXIPOS
320 Bytes 0.0%	6	-[PPSResponseMessage dealloc] MXIPOS
176 Bytes 0.0%	6	▶-[SMSHTTPRequest dealloc] MXIPOS
464 Bytes 0.0%	11	-[SMSLoadingView dealloc] MXIPOS
3.35 KB 0.1%	43	▶-[SMSViewController dealloc] MXIPOS
208 Bytes 0.0%	6	▶-[SOCPattern dealloc] MXIPOS
1.50 KB 0.0%	48	▶-[UIView(PPS) dealloc] MXIPOS

Allocations

Heapshot Analysis

Mark Heap

Allocation Lifespan

All Objects Created

Created & Still Living

Created & Destroyed

Call Tree

Separate by Category

Separate by Thread

Invert Call Tree

Hide Missing Symbols

Hide System Libraries

Show Obj-C Only

Flatten Recursion

Call Tree Constraints

Specific Data Mining

-[RKObjectAttri... Char

-[RKObjectLoad... Char

-[RKObjectMap... Char

-[RKObjectMap... Char

-[RKObjectMap... Char

Symbol Library

Crash in Settings View

MXiPOS Target

00:00:20 Run 1 of 1

dealloc

Instruments

Allocations

Extended Detail

Heaviest Stack Trace

- 1536.0 -[UIView(PPS) dealloc]
- 176.0 -[LoginVC requestStarting:]
- 176.0 -[SMSHTTPRequest sendRequestWithQuery:m...]
- 176.0 -[PPSHTTPRequest sendRequestWithQuery:m...]
- 176.0 -[SMSHTTPRequest sendRequestWithQuery:body:]
- 176.0 -[LoginVC signIn:]
- 176.0 -[LoginVC textFieldShouldReturn:]

Allocations

Heapshot Analysis

Mark Heap

Allocation Lifespan

- All Objects Created
- Created & Still Living
- Created & Destroyed

Call Tree

- Separate by Category
- Separate by Thread
- Invert Call Tree
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- Show Obj-C Only
- Flatten Recursion

Call Tree Constraints

Specific Data Mining

- [RKObjectAttri... Charge
- [RKObjectLoad... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge

Symbol Library Restore

Bytes Used	Count	Symbol Name
176 Bytes 0.0%	5	-[CommandServiceResponse dealloc] MXiPOS
176 Bytes 0.0%	6	-[InventoryResult dealloc] MXiPOS
160 Bytes 0.0%	5	-[PPSCommandSettings dealloc] MXiPOS
176 Bytes 0.0%	6	-[PPSGeolocationModel dealloc] MXiPOS
192 Bytes 0.0%	6	-[PPSRequestMessage dealloc] MXiPOS
320 Bytes 0.0%	6	-[PPSResponseMessage dealloc] MXiPOS
176 Bytes 0.0%	6	-[SMSHTTPRequest dealloc] MXiPOS
464 Bytes 0.0%	11	-[SMSLoadingView dealloc] MXiPOS
3.35 KB 0.1%	43	-[SMSViewController dealloc] MXiPOS
208 Bytes 0.0%	6	-[SOCPattern dealloc] MXiPOS
1.50 KB 0.0%	48	-[UIView(PPS) dealloc] MXiPOS

Crash in Settings View

MXiPOS Target 00:00:20 Run 1 of 1

Record Inspection Range View Library

Search dealloc

Instruments

Allocations

Extended Detail

Heaviest Stack Trace

- 1536.0 -[UIView(PPS) dealloc]
- 176.0 -[LoginVC requestStarting:]
- 176.0 -[SMSHTTPRequest sendRequestWithQuery:m...]
- 176.0 -[PPSHTTPRequest sendRequestWithQuery:m...]
- 176.0 -[SMSHTTPRequest sendRequestWithQuery:body:]
- 176.0 -[LoginVC signIn:]
- 176.0 -[LoginVC textFieldShouldReturn:]

Allocations Call Trees Call Tree

Bytes Used	Count	Symbol Name
176 Bytes 0.0%	5	-[CommandServiceResponse dealloc] MXiPOS
176 Bytes 0.0%	6	-[InventoryResult dealloc] MXiPOS
160 Bytes 0.0%	5	-[PPSCommandSettings dealloc] MXiPOS
176 Bytes 0.0%	6	-[PPSGeolocationModel dealloc] MXiPOS
192 Bytes 0.0%	6	-[PPSRequestMessage dealloc] MXiPOS
320 Bytes 0.0%	6	-[PPSResponseMessage dealloc] MXiPOS
176 Bytes 0.0%	6	-[SMSHTTPRequest dealloc] MXiPOS
464 Bytes 0.0%	11	-[SMSLoadingView dealloc] MXiPOS
3.35 KB 0.1%	43	-[SMSViewController dealloc] MXiPOS
3.35 KB 0.1%	43	-[PPSViewController dealloc] MXiPOS
3.12 KB 0.1%	36	-[MerchantsVC dealloc] MXiPOS
208 Bytes 0.0%	6	-[SOCPattern dealloc] MXiPOS
1.50 KB 0.0%	48	-[UIView(PPS) dealloc] MXiPOS

Heapshot Analysis

Allocation Lifespan

- All Objects Created
- Created & Still Living
- Created & Destroyed

Call Tree

- Separate by Category
- Separate by Thread
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Call Tree Constraints

Specific Data Mining

- [RKObjectAttri... Charge
- [RKObjectLoad... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge
- [RKObjectMap... Charge

Symbol Library Restore

Crash in Settings View

MXiPOS Target 00:00:20 Run 1 of 1

Record Inspection Range View Library Search dealloc

Instruments Allocations

Annotations Source
100.00% [super dealloc];

Allocations Call Trees Call Tree M -[UIView(PPS) dealloc]

Heapshot Analysis Mark Heap

Allocation Lifespan
 All Objects Created
 Created & Still Living
 Created & Destroyed

Call Tree
 Separate by Category
 Separate by Thread
 Invert Call Tree
 Hide Missing Symbols
 Hide System Libraries
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 Flatten Recursion

Call Tree Constraints

Specific Data Mining
 -[RKObjectAttri... Charge
 -[RKObjectLoad... Charge
 -[RKObjectMap... Charge
 -[RKObjectMap... Charge
 -[RKObjectMap... Charge

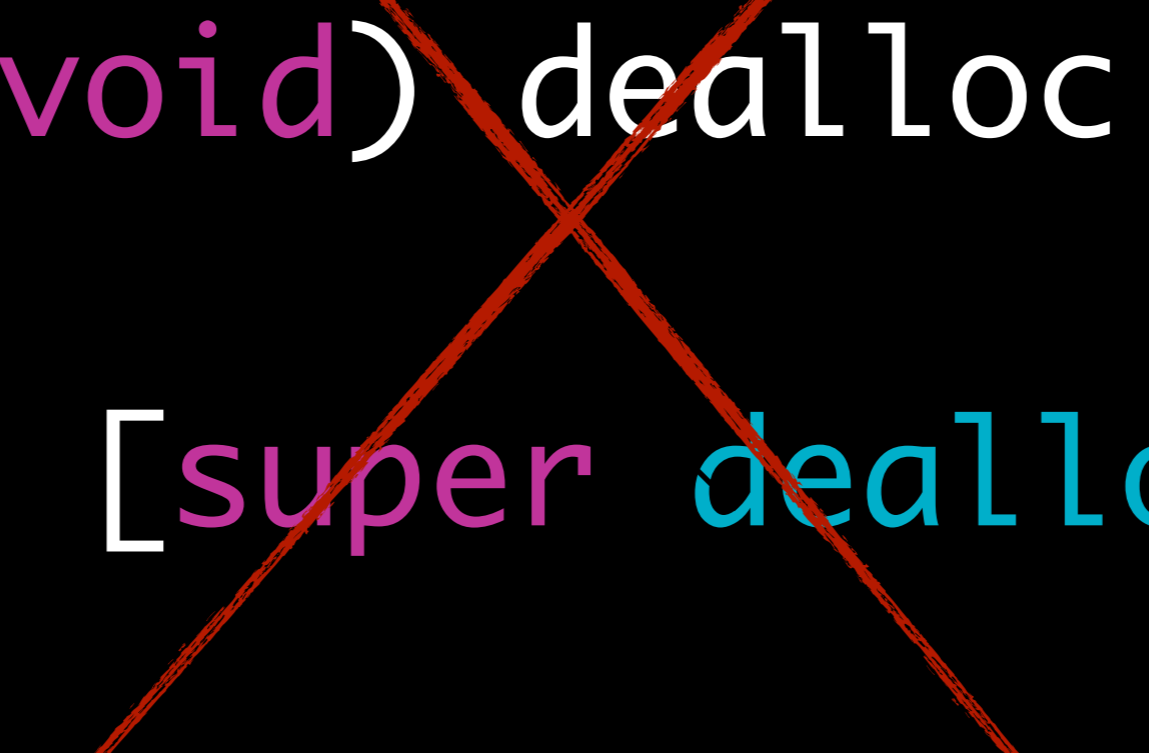
Symbol Library Restore

```
80     {
81         return (UIScrollView *)parentView;
82     }
83     parentView = [parentView superview];
84 }
85
86     return nil;
87 }
88
89 - (BOOL)findAndResignFirstResponder
90 {
91     if (self.isFirstResponder) {
92         [self resignFirstResponder];
93         return YES;
94     }
95     for (UIView *subView in self.subviews) {
96         if ([subView findAndResignFirstResponder])
97             return YES;
98     }
99     return NO;
100 }
101
102 - (void) dealloc
103 {
104     [super dealloc];
105 }
106
107 @end
108
```

100.00%


```
- (void) dealloc  
{  
    [super dealloc];  
}
```

```
- (void) dealloc  
{  
    [super dealloc];  
}
```



I FIGHT
NSZOMBIES
FOR A LIVING.

Allocs



pixels.xcodeproj — panda_rainbow.jpg
Build pixels: Succeeded | Today at 10:43 PM
Project 1

Run Stop pixels > Saul Mora's iPad Breakpoints

- pixels
- 1 target, iOS SDK 5.0
- Model
 - entities
 - generated
 - PixelsDataModel.xcdatamodeld
- Views
- Controllers
- ThirdParty
- Main
 - panda_rainbow.jpg
 - pixelsAppDelegate.h
 - pixelsAppDelegate.m
 - iPhone
 - iPad
 - Supporting Files
- Frameworks
- Products



Editor View Organizer

Identity and Type

File Name: panda_rainbow.jpg
File Type: Default - JPEG Image
Location: Relative to Group
panda_rainbow.jpg
Full Path: /Users/saul/Developer/ActiveProjects/Pixels/pixels/panda_rainbow.jpg

Image Properties

Dimensions: 800 x 1043 pixels
Resolution: 72 pixels/inches
Color Space: RGB
Alpha Channel: No

Localization

No Localizations

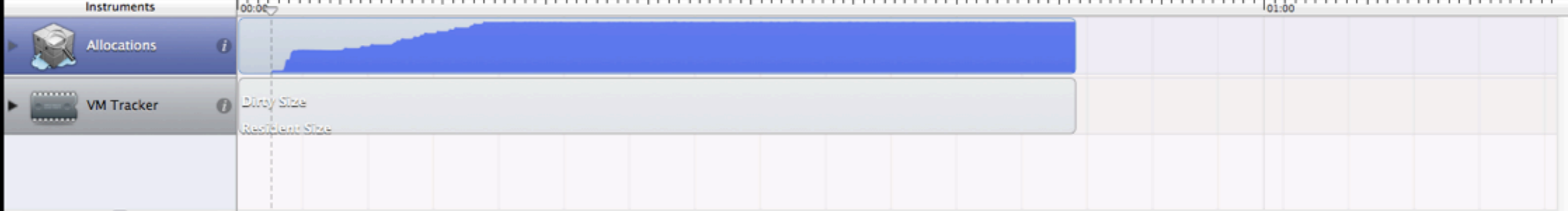
Target Membership

pixels

Objects

Label 1 2 Text

Toggle switches, sliders, and other UI controls.



- Allocations
- Heapshot Analysis
 - Mark Heap
- Allocation Lifespan
 - All Objects Created
 - Created & Still Living
 - Created & Destroyed
- Call Tree
 - Separate by Category
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
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 - Flatten Recursion
- Call Tree Constraints
- Specific Data Mining

Graph	Category	Live Bytes	# Living	# Transitory	Overall Bytes	# Overall	# Allocations (Net / Overall)
<input checked="" type="checkbox"/>	* All Allocations *	3.17 MB	26817	162382	22.83 MB	189199	+++
<input type="checkbox"/>	Malloc 16 Bytes	115.30 KB	7379	20426	434.45 KB	27805	
<input type="checkbox"/>	Malloc 8 Bytes	6.17 KB	790	14323	118.07 KB	15113	
<input type="checkbox"/>	Malloc 96 Bytes	111.47 KB	1189	13351	1.33 MB	14540	
<input type="checkbox"/>	CFString (immutable)	89.81 KB	2701	10416	435.22 KB	13117	
<input type="checkbox"/>	__NSArrayl	512 Bytes	16	9667	208.64 KB	9683	
<input type="checkbox"/>	CFBasicHash (value-st...)	69.52 KB	1127	8021	331.33 KB	9148	
<input type="checkbox"/>	Malloc 32 Bytes	92.72 KB	2967	5469	263.62 KB	8436	
<input type="checkbox"/>	Malloc 48 Bytes	29.81 KB	636	5585	291.61 KB	6221	
<input type="checkbox"/>	CFBasicHash (key-store)	61.78 KB	1037	4775	200.42 KB	5812	
<input type="checkbox"/>	Malloc 80 Bytes	49.38 KB	632	3999	361.80 KB	4631	
<input type="checkbox"/>	__NSArrayM	1.91 KB	61	3938	124.97 KB	3999	
<input type="checkbox"/>	Malloc 64 Bytes	24.56 KB	393	3274	229.19 KB	3667	
<input type="checkbox"/>	CFString (store)	43.52 KB	344	3007	645.23 KB	3351	
<input type="checkbox"/>	CFString (mutable)	160 Bytes	5	3058	95.72 KB	3063	
<input type="checkbox"/>	CFSet (mutable)	2.03 KB	65	2889	92.31 KB	2954	
<input type="checkbox"/>	CALayer	5.91 KB	126	2820	138.09 KB	2946	
<input type="checkbox"/>	CFArray (store-deque)	12.72 KB	221	2689	99.78 KB	2910	
<input type="checkbox"/>	CFDictionary (mutable)	40.50 KB	864	1766	123.28 KB	2630	
<input type="checkbox"/>	CFArray (mutable-vari...)	7.88 KB	248	2226	77.48 KB	2474	
<input type="checkbox"/>	CFNumber	32.09 KB	2054	327	37.22 KB	2381	
<input type="checkbox"/>	CFDictionary (immutable)	9.56 KB	204	1214	66.47 KB	1418	
<input type="checkbox"/>	Malloc 40 Bytes	8.24 KB	211	1052	49.34 KB	1263	
<input type="checkbox"/>	Malloc 304 Bytes	7.72 KB	26	1172	355.66 KB	1198	
<input type="checkbox"/>	Malloc 2.00 KB	28.00 KB	14	1155	2.28 MB	1169	
<input type="checkbox"/>	UIDeviceRGBColor	256 Bytes	8	1069	33.66 KB	1077	
<input type="checkbox"/>	CFURL	1.31 KB	28	1045	50.30 KB	1073	
<input type="checkbox"/>	CGColor	2.20 KB	47	956	47.02 KB	1003	
<input type="checkbox"/>	CALayerArray	1.44 KB	46	940	30.81 KB	986	
<input type="checkbox"/>	UIImageView	1.69 KB	36	940	45.75 KB	976	
<input type="checkbox"/>	CABackingStore	5.62 KB	36	940	152.50 KB	976	
<input type="checkbox"/>	PXPhotoTileView	1.88 KB	30	940	60.62 KB	970	
<input type="checkbox"/>	UILabel	3.28 KB	30	940	106.09 KB	970	
<input type="checkbox"/>	CFData	16.17 KB	343	609	51.00 KB	952	

Instruments File Edit View Instrument Window Help

Pixels Allocs w VM Tracker

00:00:28 Run 2 of 2

Instrument Detail

Instruments

Allocations

VM Tracker

Dirty Size

Resident Size

VM Tracker

Summary VM Summary

% of Res.	Type	# Regs	Path	Resident...	Dirty Size	Virtual Size	Res. %
100%	▶*All*	270	< multiple >	110.64 MB	96.48 MB	232.62 MB	48%
88%	▶*Dirty*	121	< multiple >	97.79 MB	96.48 MB	121.91 MB	80%
82%	▶Memory Tag 70	9		90.91 MB	90.91 MB	90.91 MB	100%
9%	▶__TEXT	78	< multiple >	10.31 MB	0 Bytes	31.93 MB	32%
2%	▶__DATA	76	< multiple >	2.10 MB	536.00 KB	3.29 MB	64%
1%	▶MALLOC_SMALL	2		1.57 MB	1.57 MB	16.00 MB	10%
1%	▶VM_ALLOCATE	25		1.14 MB	1.14 MB	1.16 MB	99%
1%	▶__LINKEDIT	4	< multiple >	1.14 MB	0 Bytes	32.21 MB	4%
1%	▶MALLOC_TINY	2		932.00 KB	932.00 KB	4.00 MB	23%
1%	▶mapped file	7	< multiple >	920.00 KB	0 Bytes	45.20 MB	2%
1%	▶Core Animation	14		708.00 KB	708.00 KB	1.04 MB	67%
0%	▶TC malloc	1		240.00 KB	240.00 KB	1.19 MB	20%
0%	▶__UNICODE	1	CoreFoundation	240.00 KB	0 Bytes	544.00 KB	44%
0%	▶MALLOC_LARGE	5		196.00 KB	196.00 KB	332.00 KB	59%
0%	▶Stack	7	< multiple >	168.00 KB	168.00 KB	4.30 MB	4%
0%	▶MALLOC (admin)	29		68.00 KB	68.00 KB	420.00 KB	16%
0%	▶SQLite page cache	1		64.00 KB	64.00 KB	96.00 KB	67%
0%	▶CG image	2		12.00 KB	12.00 KB	12.00 KB	100%
0%	▶Stack Guard	7		0 Bytes	0 Bytes	28.00 KB	0%

VM Tracker

Snapshots

Automatic Snapshotting

Snapshot Interval (sec) 3

Status: Analyzing Process

Snapshot Now

VM Options

Coalesce Regions

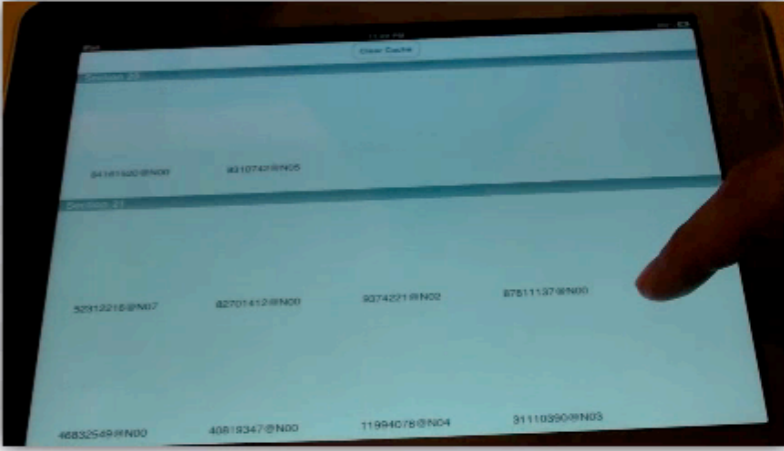
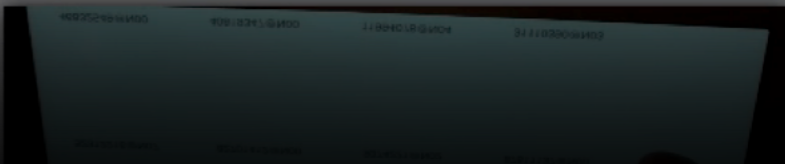
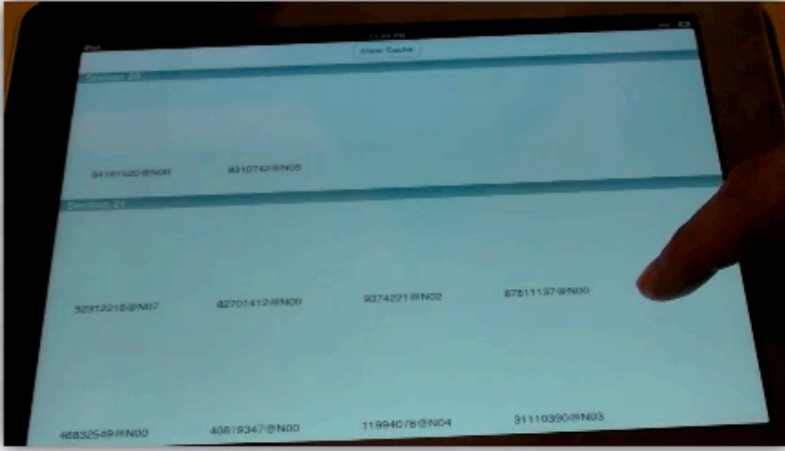
Show Full Paths

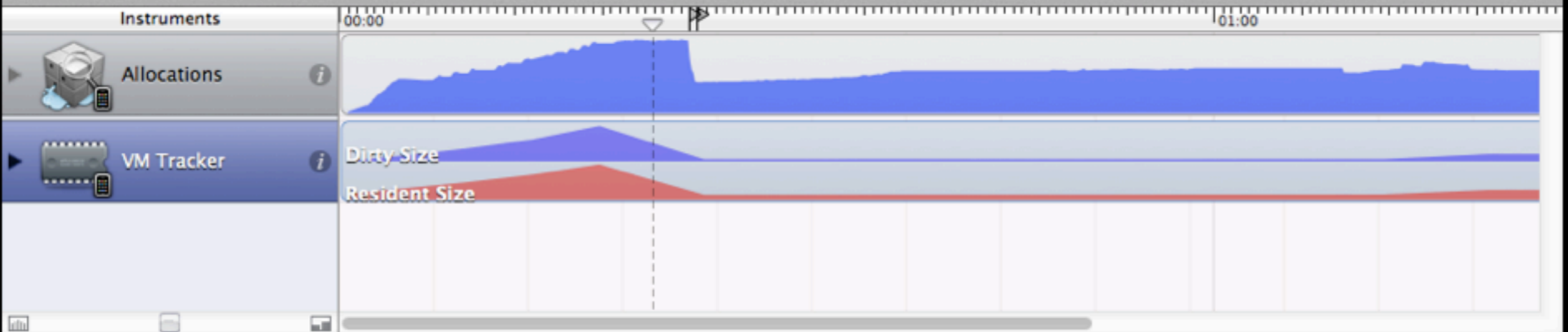
Protections Filters

Readable

Writable

Executable



VM Tracker

Snapshots

- Automatic Snapshotting
- Snapshot Interval (sec)
- Status: Idle
-

VM Options

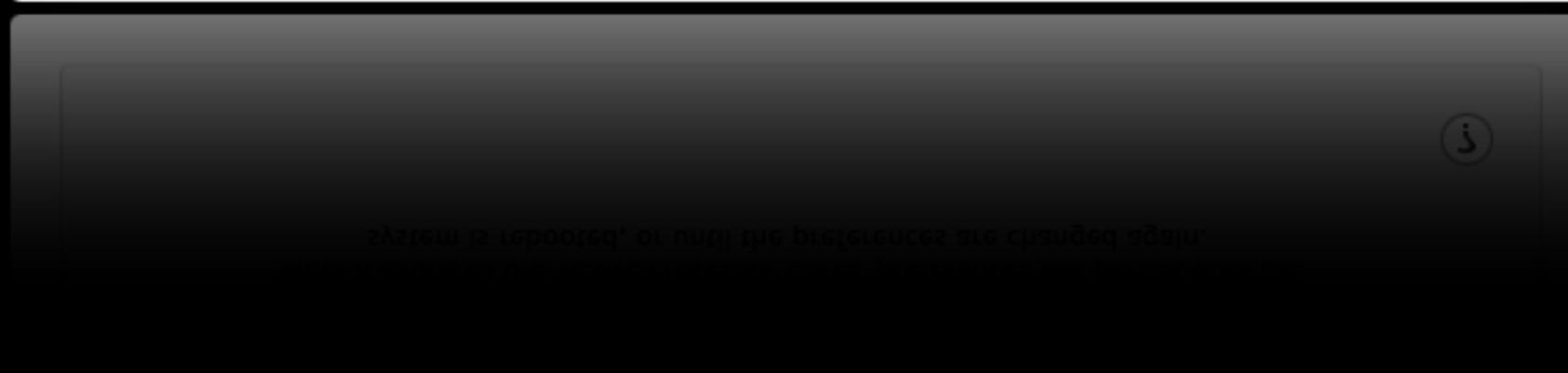
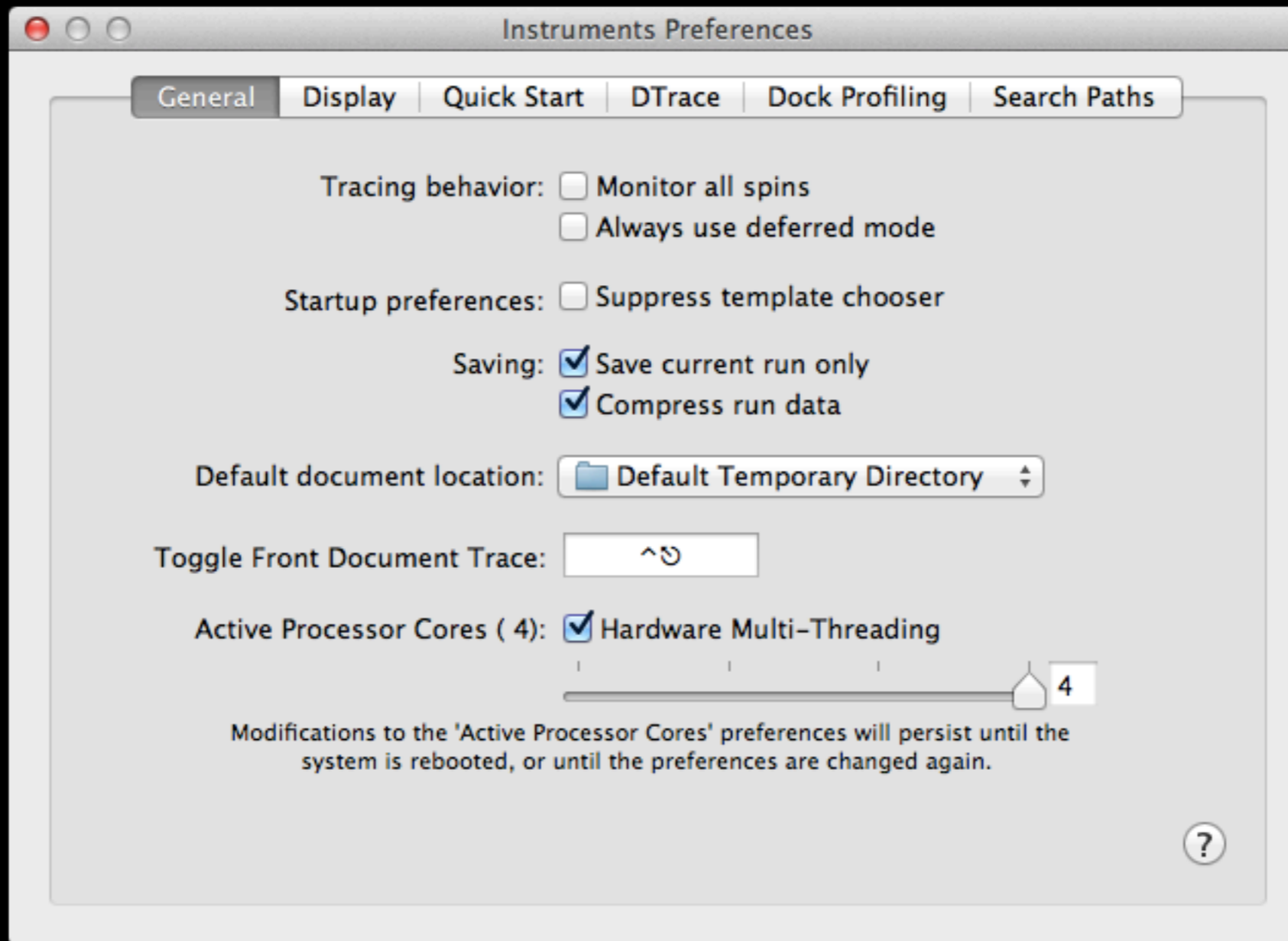
- Coalesce Regions
- Show Full Paths

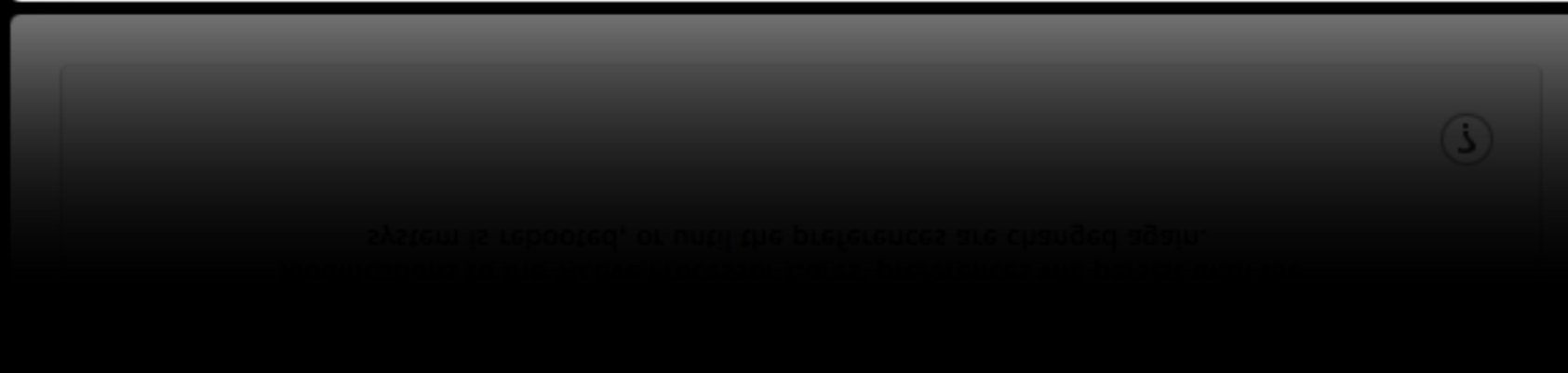
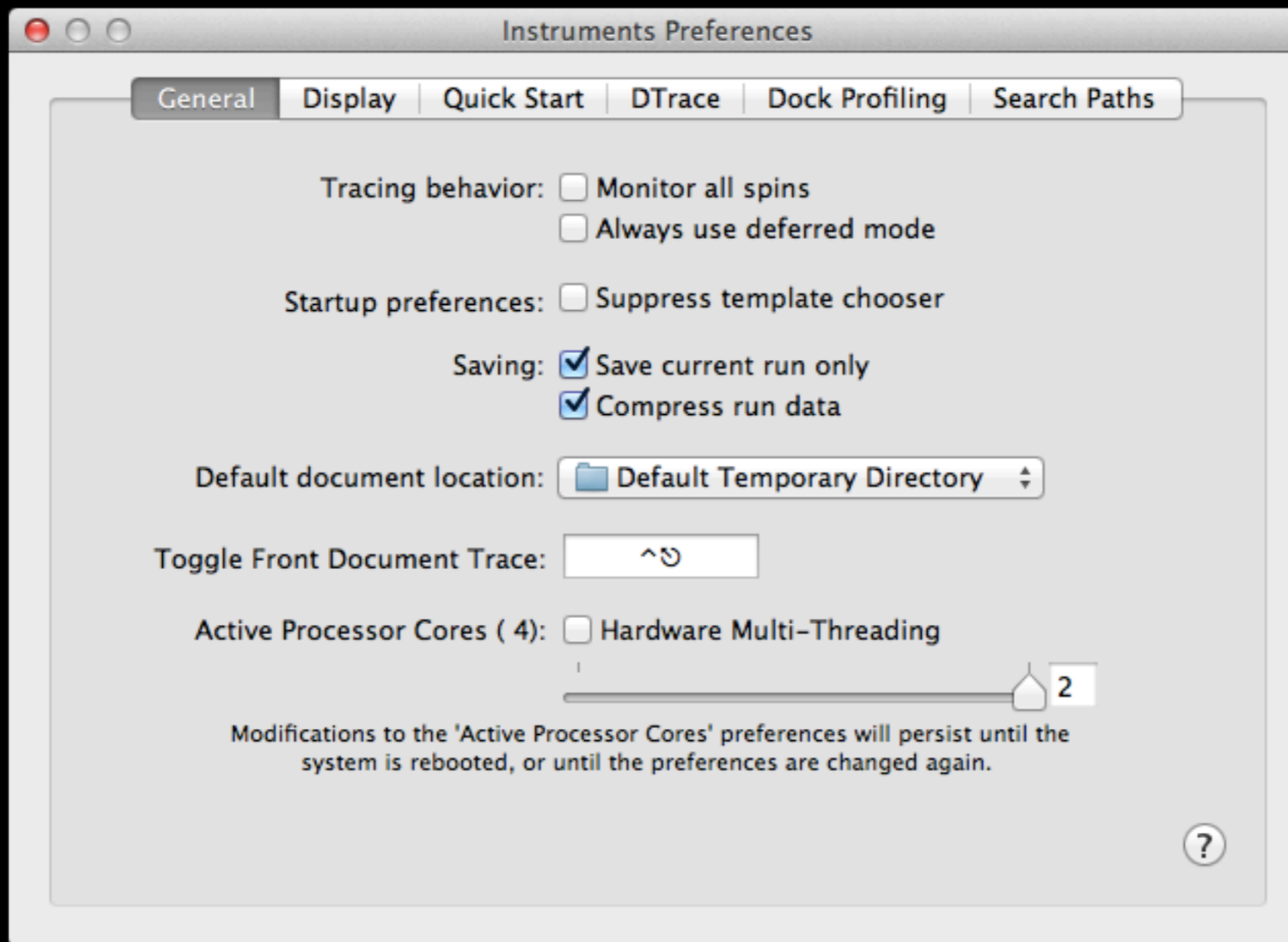
Protections Filters

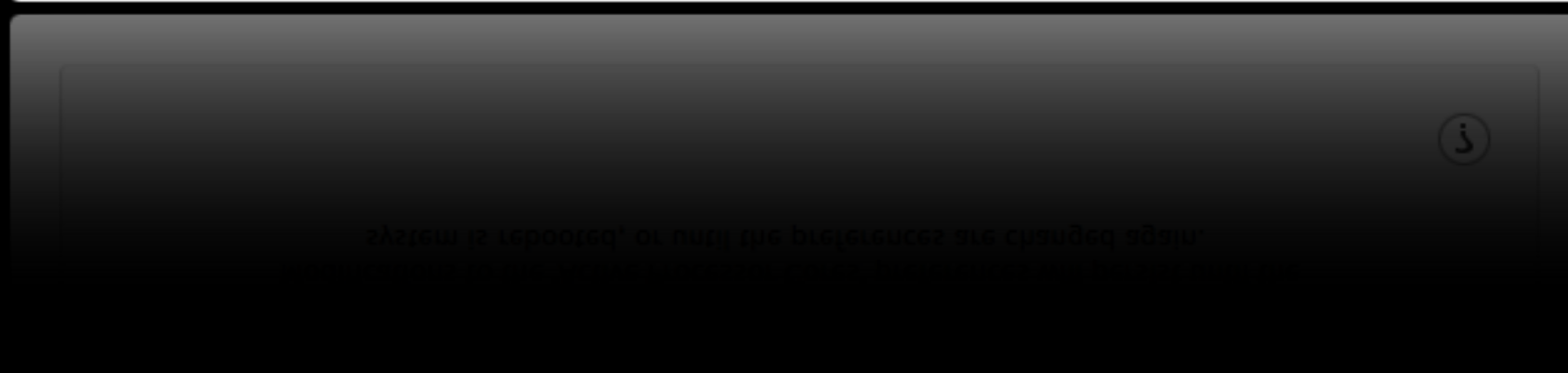
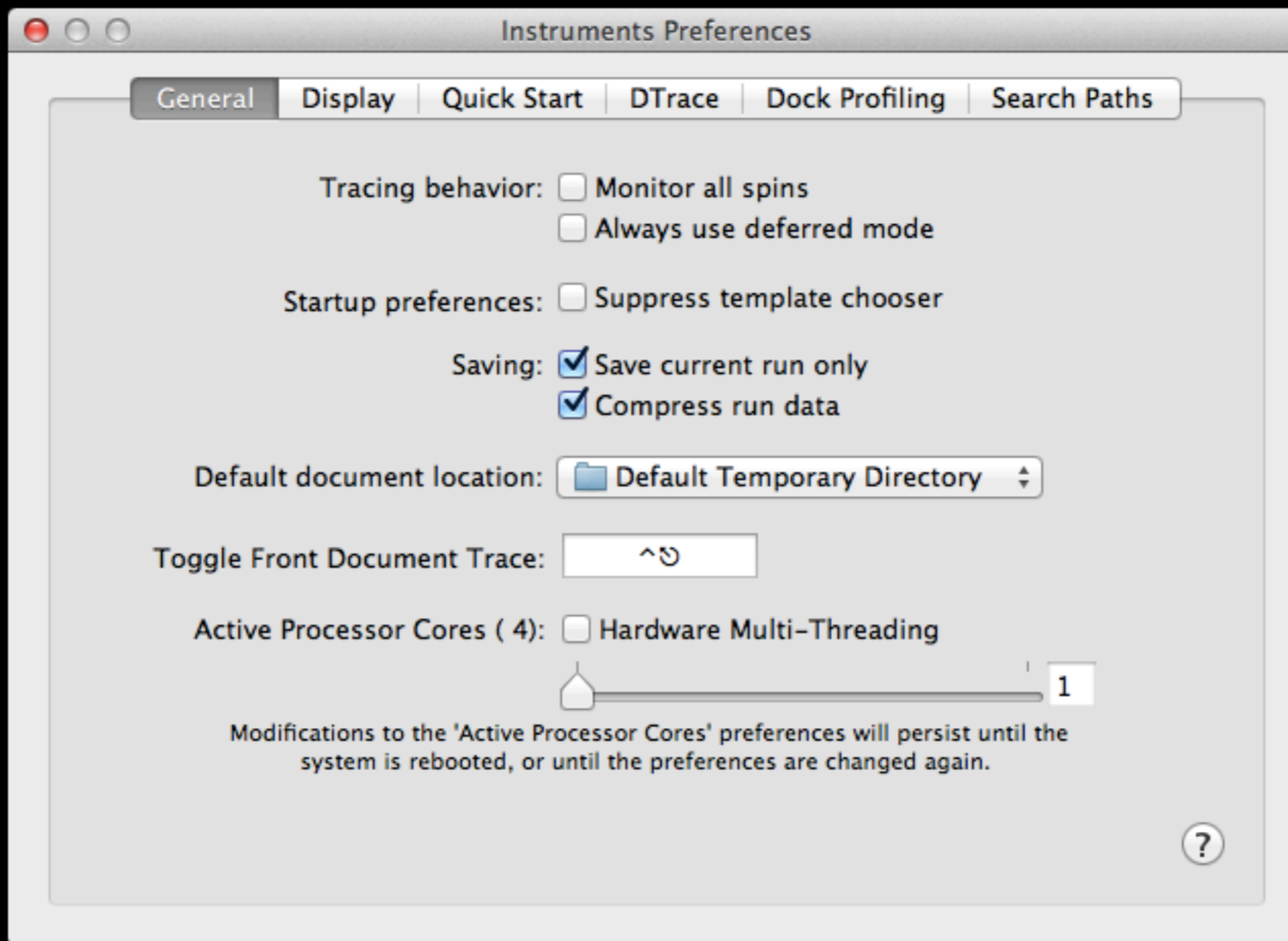
- Readable
- Writable
- Executable

Summary **VM Summary**

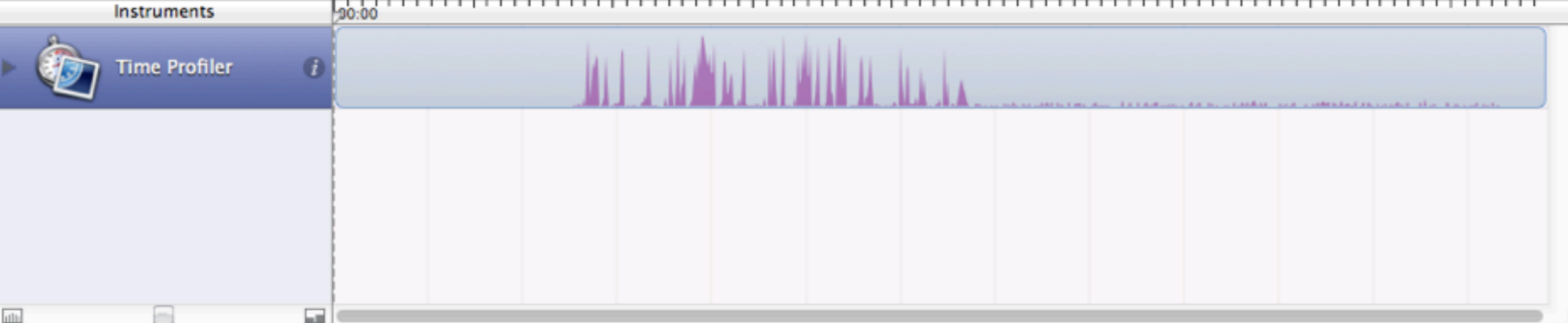
% of Res. ▾	Type	# Regs	Path	Resident...	Dirty Size	Virtual Size	Res. %
100%	▶*All*	270	< multiple >	110.64 MB	96.48 MB	232.62 MB	48%
88%	▶*Dirty*	121	< multiple >	97.79 MB	96.48 MB	121.91 MB	80%
82%	▶Memory Tag 70	9		90.91 MB	90.91 MB	90.91 MB	100%
9%	▶_TEXT	78	< multiple >	10.31 MB	0 Bytes	31.93 MB	32%
2%	▶_DATA	76	< multiple >	2.10 MB	536.00 KB	3.29 MB	64%
1%	▶MALLOC_SMALL	2		1.57 MB	1.57 MB	16.00 MB	10%
1%	▶VM_ALLOCATE	25		1.14 MB	1.14 MB	1.16 MB	99%
1%	▶_LINKEDIT	4	< multiple >	1.14 MB	0 Bytes	32.21 MB	4%
1%	▶MALLOC_TINY	2		932.00 KB	932.00 KB	4.00 MB	23%
1%	▶mapped file	7	< multiple >	920.00 KB	0 Bytes	45.20 MB	2%
1%	▶Core Animation	14		708.00 KB	708.00 KB	1.04 MB	67%
0%	▶TC malloc	1		240.00 KB	240.00 KB	1.19 MB	20%
0%	▶_UNICODE	1	CoreFoundation	240.00 KB	0 Bytes	544.00 KB	44%
0%	▶MALLOC_LARGE	5		196.00 KB	196.00 KB	332.00 KB	59%
0%	▶Stack	7	< multiple >	168.00 KB	168.00 KB	4.30 MB	4%
0%	▶MALLOC (admin)	29		68.00 KB	68.00 KB	420.00 KB	16%
0%	▶SQLite page cache	1		64.00 KB	64.00 KB	96.00 KB	67%
0%	▶CG image	2		12.00 KB	12.00 KB	12.00 KB	100%
0%	▶Stack Guard	7		0 Bytes	0 Bytes	28.00 KB	0%







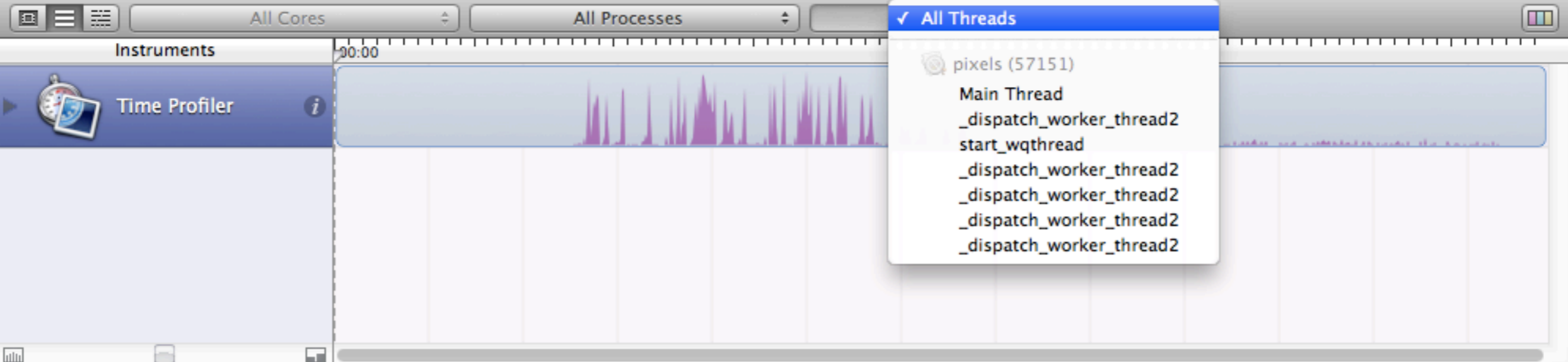




Time Profiler Call Tree

Sample Perspective	Running Time	Self	Symbol Name
All Sample Counts	63.0ms 2.2%	0.0	+ [PXPhotoTileView tile] pixels
Running Sample Times	58.0ms 2.0%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:inContext:] pixels
Call Tree	57.0ms 2.0%	0.0	- [SDImageCache queryDiskCacheOperation:] pixels
Separate by Thread	43.0ms 1.5%	0.0	+ [PXPhoto photoURL] pixels
Invert Call Tree	10.0ms 0.3%	0.0	- [PXPhotoTileView dealloc] pixels
Hide Missing Symbols	9.0ms 0.3%	0.0	+ [SDWebImageManager downloadWithURL:delegate:retryFailed:lowPriority:] pixels
Hide System Libraries	7.0ms 0.2%	0.0	+ [SDImageCache queryDiskCacheForKey:delegate:userInfo:] pixels
Show Obj-C Only	6.0ms 0.2%	0.0	+ [PXPhotoListTableViewCell setPhotos:] pixels
Flatten Recursion	5.0ms 0.1%	0.0	- [PXPhotoListViewController tableView:cellForRowAtIndexPath:] pixels
Top Functions	5.0ms 0.1%	0.0	+ [PXPhotoTileView willMoveToSuperview:] pixels
Call Tree Constraints	5.0ms 0.1%	0.0	+ [UIImageView(WebCache) webImageManager:didFinishWithImage:] pixels
Specific Data Mining	4.0ms 0.1%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:andRetrieveAttributes:] pixels
	3.0ms 0.1%	0.0	+ [PXPhotoListTableViewCell removeAllPhotoTiles] pixels
	3.0ms 0.1%	0.0	+ [SDImageCache cachePathForKey:] pixels
	2.0ms 0.0%	0.0	- [InterestingnessDownloader connection:didReceiveResponse:] pixels
	1.0ms 0.0%	0.0	- [SDWebImageManager dealloc] pixels
	1.0ms 0.0%	0.0	- [PXPhotoListTableViewCell layoutSubviews] pixels
	1.0ms 0.0%	0.0	- [SDImageCache notifyDelegate:] pixels
	1.0ms 0.0%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:inContext:andRetrieveAttributes:] pixels
	1.0ms 0.0%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:] pixels
	1.0ms 0.0%	0.0	+ [SDWebImageManager cancelForDelegate:] pixels

	1.0ms 0.0%	0.0	+ [SDWebImageManager cancelForDelegate:] pixels
	1.0ms 0.0%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:inContext:andRetrieveAttributes:] pixels
	1.0ms 0.0%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:] pixels

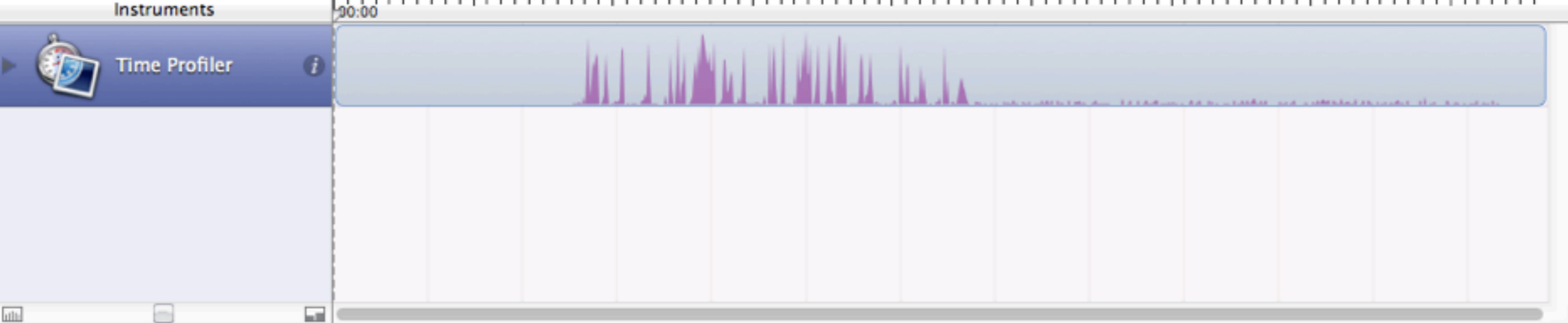


✓ All Threads

- pixels (57151)
 - Main Thread
 - _dispatch_worker_thread2
 - start_wqthread
 - _dispatch_worker_thread2
 - _dispatch_worker_thread2
 - _dispatch_worker_thread2
 - _dispatch_worker_thread2

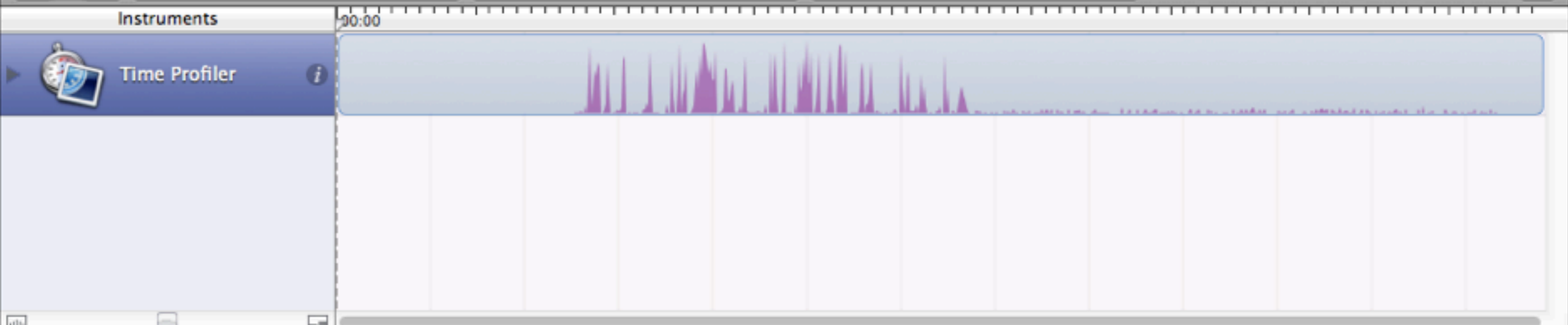
Sample Perspective	Running Time	Self	Symbol Name
All Sample Counts	63.0ms 2.2%	0.0	+ [PXPhotoTileView tile] pixels
Running Sample Times	58.0ms 2.0%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:inContext:] pixels
Call Tree	57.0ms 2.0%	0.0	- [SDImageCache queryDiskCacheOperation:] pixels
Separate by Thread	43.0ms 1.5%	0.0	+ [PXPhoto photoURL] pixels
Invert Call Tree	10.0ms 0.3%	0.0	- [PXPhotoTileView dealloc] pixels
Hide Missing Symbols	9.0ms 0.3%	0.0	+ [SDWebImageManager downloadWithURL:delegate:retryFailed:lowPriority:] pixels
Hide System Libraries	7.0ms 0.2%	0.0	+ [SDImageCache queryDiskCacheForKey:delegate:userInfo:] pixels
Show Obj-C Only	6.0ms 0.2%	0.0	+ [PXPhotoListTableViewCell setPhotos:] pixels
Flatten Recursion	5.0ms 0.1%	0.0	- [PXPhotoListViewController tableView:cellForRowAtIndexPath:] pixels
Top Functions	5.0ms 0.1%	0.0	+ [PXPhotoTileView willMoveToSuperview:] pixels
Call Tree Constraints	5.0ms 0.1%	0.0	+ [UIImageView(WebCache) webImageManager:didFinishWithImage:] pixels
Specific Data Mining	4.0ms 0.1%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:andRetrieveAttributes:] pixels
	3.0ms 0.1%	0.0	+ [PXPhotoListTableViewCell removeAllPhotoTiles] pixels
	3.0ms 0.1%	0.0	+ [SDImageCache cachePathForKey:] pixels
	2.0ms 0.0%	0.0	- [InterestingnessDownloader connection:didReceiveResponse:] pixels
	1.0ms 0.0%	0.0	- [SDWebImageManager dealloc] pixels
	1.0ms 0.0%	0.0	- [PXPhotoListTableViewCell layoutSubviews] pixels
	1.0ms 0.0%	0.0	- [SDImageCache notifyDelegate:] pixels
	1.0ms 0.0%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:inContext:andRetrieveAttributes:] pixels
	1.0ms 0.0%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:] pixels
	1.0ms 0.0%	0.0	+ [SDWebImageManager cancelForDelegate:] pixels

	1.0ms 0.0%	0.0	+ [SDWebImageManager cancelForDelegate:] pixels
	1.0ms 0.0%	0.0	+ [SDWebImageManager cancelForDelegate:] pixels
	1.0ms 0.0%	0.0	+ [SDWebImageManager cancelForDelegate:] pixels



- Time Profiler**
- Sample Perspective
 - All Sample Counts
 - Running Sample Times
 - Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
 - Call Tree Constraints
 - Specific Data Mining

Running Time	Self	Symbol Name
63.0ms 27.8%	0.0	+ [PXPhotoTileView tile] pixels
58.0ms 25.6%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:inContext:] pixels
43.0ms 19.0%	0.0	- [PXPhoto photoURL] pixels
10.0ms 4.4%	0.0	- [PXPhotoTileView dealloc] pixels
9.0ms 3.9%	0.0	- [SDWebImageManager downloadWithURL:delegate:retryFailed:lowPriority:] pixels
7.0ms 3.0%	0.0	- [SDImageCache queryDiskCacheForKey:delegate:userInfo:] pixels
6.0ms 2.6%	0.0	- [PXPhotoListTableViewCell setPhotos:] pixels
5.0ms 2.2%	0.0	- [PXPhotoTileView willMoveToSuperview:] pixels
5.0ms 2.2%	0.0	- [PXPhotoListViewController tableView:cellForRowAtIndexPath:] pixels
5.0ms 2.2%	0.0	- [UIImageView(WebCache) webImageManager:didFinishWithImage:] pixels
4.0ms 1.7%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:andRetrieveAttributes:] pixels
3.0ms 1.3%	0.0	- [PXPhotoListTableViewCell removeAllPhotoTiles] pixels
2.0ms 0.8%	0.0	- [InterestingnessDownloader connection:didReceiveResponse:] pixels
1.0ms 0.4%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:] pixels
1.0ms 0.4%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:inContext:andRetrieveAttributes:] pixels
1.0ms 0.4%	0.0	- [SDWebImageManager cancelForDelegate:] pixels
1.0ms 0.4%	0.0	- [SDWebImageManager dealloc] pixels
1.0ms 0.4%	0.0	- [SDImageCache notifyDelegate:] pixels
1.0ms 0.4%	0.0	- [PXPhotoListTableViewCell layoutSubviews] pixels



🕒 📊 ☰ ☰
Time Profiler Call Tree Call Tree
☰

	Running Time	Self	Symbol Name
<input type="radio"/> All Sample Counts	63.0ms 27.8%	0.0	+ [PXPhotoTileView tile] pixels
<input checked="" type="radio"/> Running Sample Times	63.0ms 27.8%	0.0	- [PXPhotoListTableViewCell setPhotos:] pixels
Call Tree	63.0ms 27.8%	0.0	- [PXPhotoListViewController tableView:cellForRowAtIndexPath:] pixels
<input type="checkbox"/> Separate by Thread	58.0ms 25.6%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:inContext:] pixels
<input checked="" type="checkbox"/> Invert Call Tree	43.0ms 19.0%	0.0	▶ - [PXPhoto photoURL] pixels
<input checked="" type="checkbox"/> Hide Missing Symbols	10.0ms 4.4%	0.0	- [PXPhotoTileView dealloc] pixels
<input checked="" type="checkbox"/> Hide System Libraries	9.0ms 3.9%	0.0	▶ - [SDWebImageManager downloadWithURL:delegate:retryFailed:lowPriority:] pixels
<input checked="" type="checkbox"/> Show Obj-C Only	7.0ms 3.0%	0.0	▶ - [SDImageCache queryDiskCacheForKey:delegate:userInfo:] pixels
<input type="checkbox"/> Flatten Recursion	6.0ms 2.6%	0.0	▶ - [PXPhotoListTableViewCell setPhotos:] pixels
<input type="checkbox"/> Top Functions	5.0ms 2.2%	0.0	▶ - [PXPhotoTileView willMoveToSuperview:] pixels
Call Tree Constraints	5.0ms 2.2%	0.0	- [PXPhotoListViewController tableView:cellForRowAtIndexPath:] pixels
Specific Data Mining	5.0ms 2.2%	0.0	▶ - [UIImageView(WebCache) webImageManager:didFinishWithImage:] pixels
	4.0ms 1.7%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:andRetrieveAttributes:] pixels
	3.0ms 1.3%	0.0	▶ - [PXPhotoListTableViewCell removeAllPhotoTiles] pixels
	2.0ms 0.8%	0.0	- [InterestingnessDownloader connection:didReceiveResponse:] pixels
	1.0ms 0.4%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:] pixels
	1.0ms 0.4%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:inContext:andRetrieveAttributes:] pixels
	1.0ms 0.4%	0.0	▶ - [SDWebImageManager cancelForDelegate:] pixels
	1.0ms 0.4%	0.0	- [SDWebImageManager dealloc] pixels
	1.0ms 0.4%	0.0	- [SDImageCache notifyDelegate:] pixels
	1.0ms 0.4%	0.0	- [PXPhotoListTableViewCell layoutSubviews] pixels

	1.0ms 0.4%	0.0	- [PXPhotoListTableViewCell dealloc] pixels
	1.0ms 0.4%	0.0	- [SDImageCache notifyDelegate:] pixels
	1.0ms 0.4%	0.0	- [SDWebImageManager dealloc] pixels

Pixels Time Profile in Simulator

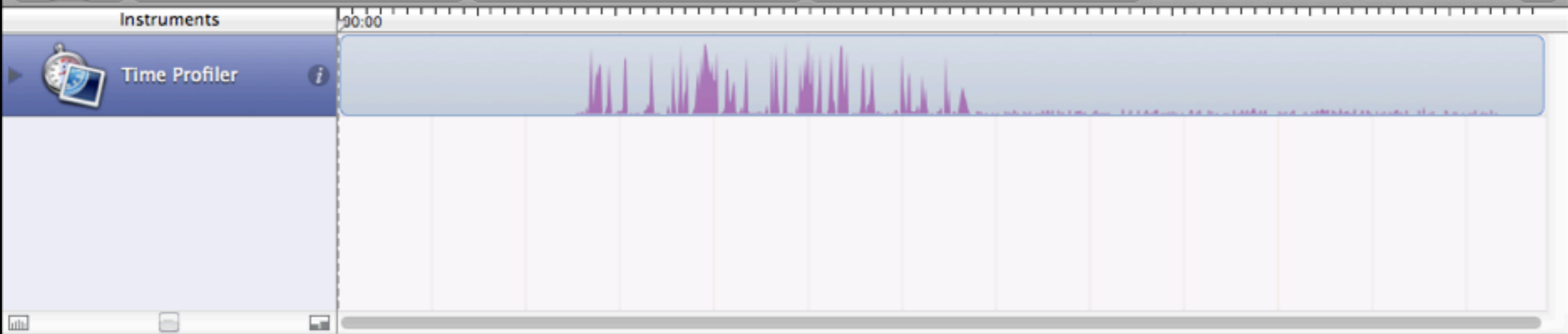
Record Target Inspection Range 00:00:52 Run 1 of 1 View Library Involves Symbol Search

All Cores All Processes Main Thread

Instruments Time Profiler

Call Tree

Running Time	Self	Symbol Name
63.0ms 27.8%	0.0	+ [PXPhotoTileView tile] pixels
63.0ms 27.8%	0.0	- [PXPhotoListTableViewCell setPhotos:] pixels
63.0ms 27.8%	0.0	- [PXPhotoListViewController tableView:cellForRowAtIndexPath:] pixels
58.0ms 25.6%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:inContext:] pixels
43.0ms 19.0%	0.0	- [PXPhoto photoURL] pixels
10.0ms 4.4%	0.0	- [PXPhotoTileView dealloc] pixels
9.0ms 3.9%	0.0	- [SDWebImageManager downloadWithURL:delegate:retryFailed:lowPriority:] pixels
7.0ms 3.0%	0.0	- [SDImageCache queryDiskCacheForKey:delegate:userInfo:] pixels
6.0ms 2.6%	0.0	- [PXPhotoListTableViewCell setPhotos:] pixels
5.0ms 2.2%	0.0	- [PXPhotoTileView willMoveToSuperview:] pixels
5.0ms 2.2%	0.0	- [PXPhotoListViewController tableView:cellForRowAtIndexPath:] pixels
5.0ms 2.2%	0.0	- [UIImageView(WebCache) webImageManager:didFinishWithImage:] pixels
4.0ms 1.7%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:andRetrieveAttributes:] pixels
3.0ms 1.3%	0.0	- [PXPhotoListTableViewCell removeAllPhotoTiles] pixels
2.0ms 0.8%	0.0	- [InterestingnessDownloader connection:didReceiveResponse:] pixels
1.0ms 0.4%	0.0	+ [NSObject(MagicalRecord) findByAttribute:withValue:] pixels
1.0ms 0.4%	0.0	+ [NSObject(MagicalRecord) findFirstWithPredicate:sortedBy:ascending:inContext:andRetrieveAttributes:] pixels
1.0ms 0.4%	0.0	- [SDWebImageManager cancelForDelegate:] pixels
1.0ms 0.4%	0.0	- [SDWebImageManager dealloc] pixels
1.0ms 0.4%	0.0	- [SDImageCache notifyDelegate:] pixels
1.0ms 0.4%	0.0	- [PXPhotoListTableViewCell layoutSubviews] pixels

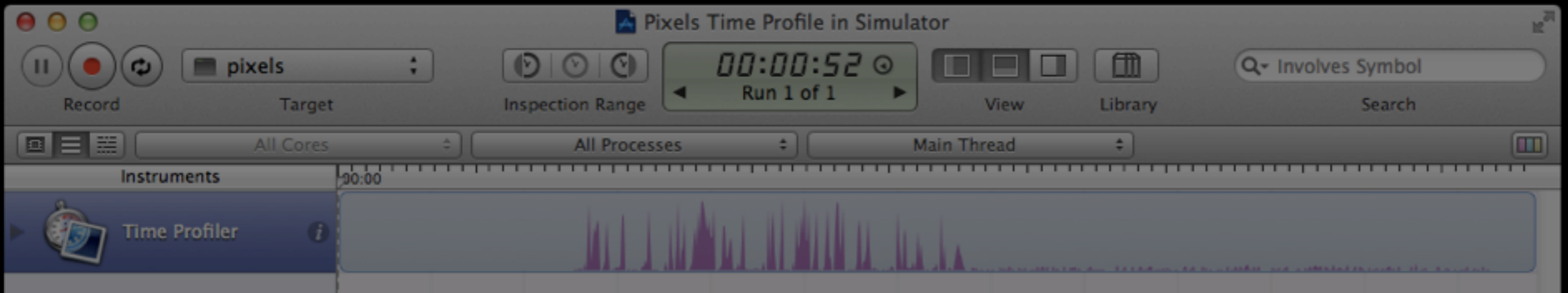


- Time Profiler
- Sample Perspective
 - All Sample Counts
 - Running Sample Times
- Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
- Call Tree Constraints
- Specific Data Mining

Call Tree Call Tree +[PXPhotoTileView tile]

```
40     return tile;
41 }
42
43 + (id) tile;
44 {
45     static UINib *nib = nil;
46     static dispatch_once_t onceToken;
47     dispatch_once(&onceToken, ^{
48         nib = [[self nib] retain];
49     });
50
51     NSArray *views = [nib instantiateWithOwner:self options:nil];
52     return [views objectAtIndex:0];
53 }
54
55 -(void)willMoveToSuperview:(UIView *)newSuperview
56 {
57     if (newSuperview == nil)
58     {
59         self.photoView.image = nil;
60     }
61 }
```

```
28     self.photoView.image = nil;
29 }
30 -(void)willMoveToSuperview:(UIView *)newSuperview
```



```
42
43 + (id) tile;
44 {
45     static UINib *nib = nil;
46     static dispatch_once_t onceToken;
47     dispatch_once(&onceToken, ^{
48         nib = [[self nib] retain];
49     });
50
51     NSArray *views = [nib instantiateWithOwner:self options:nil];
52     return [views objectAtIndex:0];
53 }
54
```

```
50
51     NSArray *views = [nib instantiateWithOwner:self options:nil];
52     return [views objectAtIndex:0];
53 }
54
55 -(void)willMoveToSuperview:(UIView *)newSuperview
56 {
57     if (newSuperview == nil)
58     {
59         self.photoView.image = nil;
60     }
61 }
```

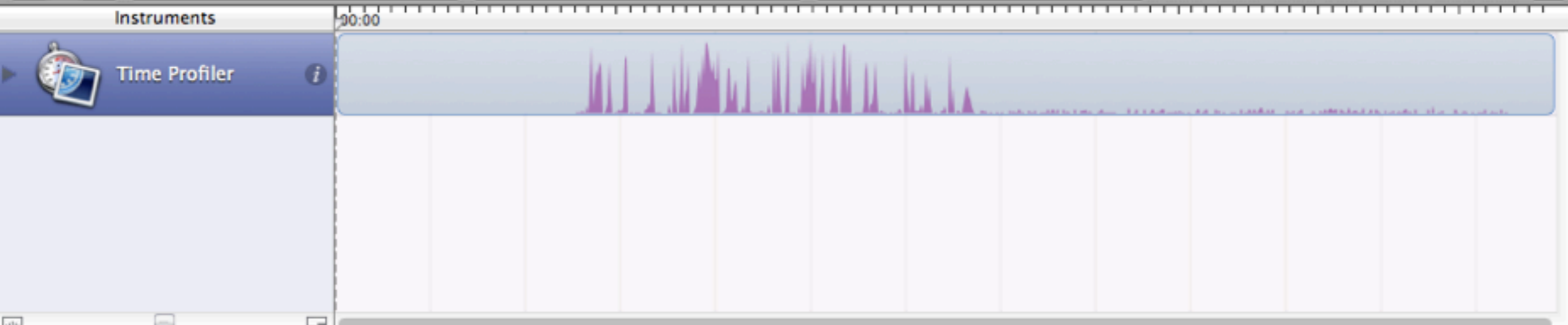
```
28     self.photoView.image = nil;
29 }
30 -(void)willMoveToSuperview:(UIView *)newSuperview
31 {
32     if (newSuperview == nil)
33     {
34         self.photoView.image = nil;
35     }
36 }
```

```
Call Tree > Call Tree > M +[PXPhotoTileView tile]
PXPhotoTileView.m

40     return tile;
41 }
42
43 + (id) tile;
44 {
45     static UINib *nib = nil;
46     static dispatch_once_t onceToken;
47     dispatch_once(&onceToken, ^{
48         nib = [[self nib] retain];
49     });
50
51     NSArray *views = [nib instantiateWithOwner:self options:nil];
52     return [views objectAtIndex:0];
53 }
54
55 -(void)willMoveToSuperview:(UIView *)newSuperview
56 {
57     if (newSuperview == nil)
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96 {
97     if (newSuperview == nil)
98     {
99         self.photoView.image = nil;
100    }
101 }
```

- View as Percentage
- View as Value
- View as Default
-
- Refresh
-
- Constrain Call Tree Selection
- Line Correction
-
- Show ISA Reference Guide

00:00:52
Run 1 of 1



Time Profiler

- Sample Perspective
 - All Sample Counts
 - Running Sample Times
- Call Tree
 - Separate by Thread
 - Invert Call Tree
 - Hide Missing Symbols
 - Hide System Libraries
 - Show Obj-C Only
 - Flatten Recursion
 - Top Functions
- Call Tree Constraints
- Specific Data Mining

```

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```

```

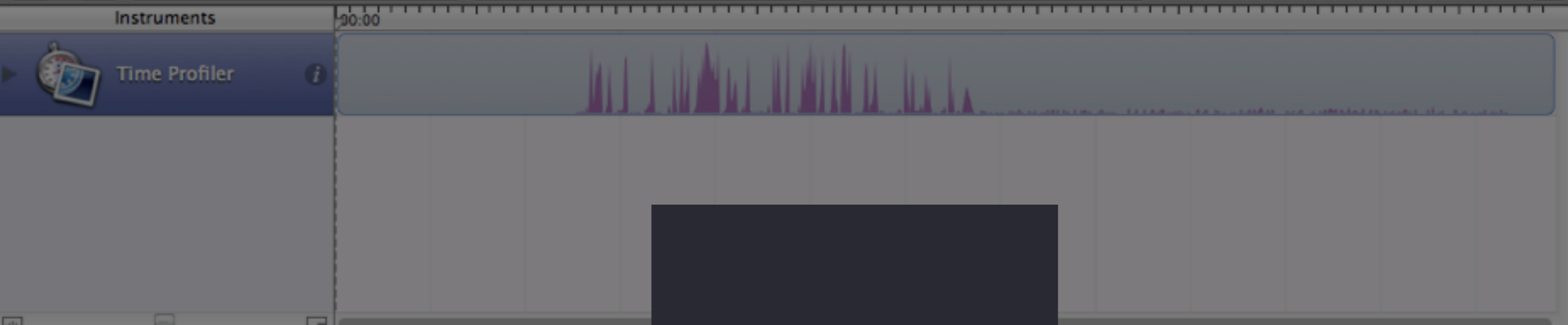
61     self.photoView.image = nil;
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```

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pixels
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📖
🔍 Involves Symbol

Record Target Inspection Range Run 1 of 1 View Library Search

📏 📏 📏
All Cores
All Processes
Main Thread



Time Profiler

Sample Perspective

- All Sample Counts
- Running Sample Times

Call Tree

- Separate by Thread
- Invert Call Tree
- Hide Missing Symbols
- Hide System Libraries
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- Flatten Recursion
- Top Functions

Call Tree Constraints

Specific Data Mining

Call Tree

63x

```

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60     }
61 }

```

```

28 self.photoView.image = nil;
29 {
30     if (newSuperview == nil)

```

The Secret to Using Instruments

The Secret to Using Instruments ?

SCIENCE

IT WORKS, BITCHES.

SKYLAB IN ORBIT AT END OF MISSION





Y 17817



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OpenGL ES

Core Animation

Activity
Monitor

Core Data

Multicore

CPU Sampler

Sudden Termination

Leaks Dispatch

Allocations

Threads

System Usage

Energy Diagnostics

Automation

Custom DTrace
scripts

GC Monitor

File Activity

Zombies

UI Recorder

Time Profiler

WWDC 2010 Videos



WWDC 2010 Videos

What's New in Instruments

Advanced Memory Analysis with Instruments

Advanced Performance Analysis with Instruments

Automated User Interface Testing with Instruments



WWDC 2011 Videos

What's new in Instruments – Session 310

iOS Performance and Power Optimization with Instruments – Session 312

iOS Performance In Depth – Session 318



More Resources

- [Cocoa Samurai Blogs](#)
- [Advanced Mac OS X Programming](#)
- [Instruments User Guide](#)
- [Instruments New Features Guide](#)
- [Pro iOS Tools Book*](#)
- [Pro iOS Apps Performance Optimizations*](#)

End of Line_