ImagelO解析GIF并由CoreAnimation解码帧内存占用分析 图片大小: 2560 * 1440 (1)1.85MB (1)1.85MB (1)1.85MB (1)1.85MB 9.28MB 堆上申请 堆上销毁 VM申请 VM销毁 [NSData dataWithContentsOfFile:] (1)9.28MB self.imageSource = CGImageSourceCreateWithData CGImageRef imageRef = CGImageSourceCreateImageAtIndex() Type: VM Alloc Pointer: 0x106b0c000 Size: 14761984 CGContextRef context = CGBitmapContextCreate(NULL, width, height, 8, 0, YYCGColorSpaceGetDeviceRGB(), bitmapInfo); (2)14.08MB 0 💮 mmap 1 🕒 CGBitmapAllocateData 2 CGBitmapContextInfoCreate 3 CGBitmapContextCreateWithData 4 CGBitmapContextCreate 5 ___ -[ViewController touchesEnded:withEvent:] Category: VM: ImageIO_PNG_Data Type: VM Alloc Pointer: 0x1083b0000 Size: 14745600 Stack Trace 0 💽 mmap 1 ImageIO_Malloc 2 PNGReadPlugin::copylmageBlockSet(InfoRec*, CGImageProvider*, CGRect, CGSize, __CFDictionary cons 3 PNGReadPlugin::CopylmageBlockSetProc(void*, CGImageProvider*, CGRect, CGSize, __CFDictionary co.. (3)14.06MB 4 🕒 IIOImageProviderInfo::copyImageBlockSetWithOptions(CGImageProvider*, CGRect, CGSize, __CFDiction. 5 IIOImageProviderInfo::CopyImageBlockSetWithOptions(void*, CGImageProvider*, CGRect, CGSize, __CF.. 6 CGImageProviderCopyImageBlockSet 7 🕒 img_blocks_create 8 img_blocks_extent 9 img_data_lock 10 CGSImageDataLock 11 🕒 ripc_AcquireRIPImageData 12 🕒 ripc_DrawImage 13 CGContextDrawImageWithOptions 14 ___ -[ViewController touchesEnded:withEvent:] Category: COLORSPACE) Type: Malloc Pointer: 0x107920000 Retain Count: 1 Size: 11075584 Stack Trace (4)14.06MB CGContextDrawImage(context, CGRectMake(0, 0, width, height), imageRef); O malloc_zone_calloc 1 🕒 CGSImageDataHandleCreate 2 img_data_lock 3 🕒 CGSImageDataLock 4 🚺 ripc_AcquireRIPImageData 5 🕒 ripc_DrawImage 6 CGContextDrawImageWithOptions 7 ____ -[ViewController touchesEnded:withEvent:] Category: COLORSPACE) Pointer: 0x107920000 Retain Count: N/A Size: -11075584 ______ Stack Trace (4)3.68MB 0 malloc_zone_free 1 🕒 CGSImageDataHandleRelease 2 CGSImageDataUnlock 3 🕒 RIPImageDataRelease 4 🕒 ripc_DrawImage 5 🕒 CGContextDrawImageWithOptions 6 _____-[ViewController touchesEnded:withEvent:] Description Category: VM: CG raster data Type: VM Alloc Pointer: 0x1091c0000 Size: 14761984 CGImageRef newImage = CGBitmapContextCreateImage(context); (5)14.08MB Stack Trace 0 💮 mmap 1 CGDataProviderCreateWithCopyOfData 2 CGBitmapContextCreateImage 3 ____ -[ViewController touchesEnded:withEvent:] Description Category: VM: CG image Type: VM Dealloc Pointer: 0x106b0c000 _______| Size: -14761984 CGContextRelease(context); (2)14.08MB Stack Trace CGImageRelease(newImage); 0 🐧 munmap 1______ 1 CGBitmapContextInfoRelease 2 🕒 context_reclaim 3 🗮 _CFRelease 4 _____-[ViewController touchesEnded:withEvent:] Description Category: VM: ImageIO_PNG_Data Type: VM Dealloc Pointer: 0x1083b0000 Size: -14745600 Stack Trace 0 💿 munmap 1 L ImageIO_Free 3 __entry_remove 4 cache_remove 5 🕒 IIOImageRead::~IIOImageRead() 6 🕒 IIOImageRead::~IIOImageRead() 7 🕒 _CGImageReadFinalize(void const*) 8 🚞 _CFRelease 9 🕒 IIOImageReadSession::~IIOImageReadSession() 10 IIOImageReadSession::~IIOImageReadSession() 11 C _CGImageReadSessionFinalize(void const*) 12 == _CFRelease 13 🕒 IIOImagePlus::~IIOImagePlus() 14 🕒 IIOImagePlus::~IIOImagePlus() 15 __CGImagePlusFinalize(void const*) ______ 16 🗮 _CFRelease (3)14.06MB 17 = cow_cleanup 18 🧮 -[_NSArrayM dealloc] 19 🕒 IIOImageSource::~IIOImageSource() 20 🕒 IIOImageSource::~IIOImageSource() 21 __CGImageSourceFinalize(void const*) 22 ____CFRelease 23 ____ -[ViewController touchesEnded:withEvent:] 24 D forwardTouchMethod 25 _ -[UIResponder touchesEnded:withEvent:] 26 D -[UIWindow _sendTouchesForEvent:] 27 D -[UIWindow sendEvent:] 28 🗇 -[UIApplication sendEvent:] 29 ___dispatchPreprocessedEventFromEventQueue 30 🗾 _handleEventQueueInternal 31 __handleHIDEventFetcherDrain 32 E __CFRUNLOOP_IS_CALLING_OUT_TO_A_SOURCEO_PERFORM_FUNCTION__ 33 == _CFRunLoopDoSource0 34 E __CFRunLoopDoSources0 35 🗮 __CFRunLoopRun 36 E CFRunLoopRunSpecific 37 CSEventRunModal 38 🗇 UIApplicationMain 39 nain 40 start Description Category: Malloc 9.28 MiB Pointer: 0x104d98000 Retain Count: N/A Size: -9732096 Stack Trace O 💮 free 1 📻 -[NSConcreteData dealloc] 2 🕒 IIOImageRead::~IIOImageRead() 3 🕒 IIOImageRead::~IIOImageRead() CFRelease(self.imageSource); 5 🗮 _CFRelease 6 🕒 IIOImageReadSession::~IIOImageReadSession() self.imageSource = nil; 7 🕒 IIOImageReadSession::~IIOImageReadSession() 8 ___CGImageReadSessionFinalize(void const*) self.imageView.image = nil; 9 🗮 _CFRelease 10 🕒 IIOImagePlus::~IIOImagePlus() 11 🕒 IIOImagePlus::~IIOImagePlus() 12 🕒 _CGImagePlusFinalize(void const*) 13 🗮 _CFRelease _____ 14 == cow_cleanup 15 🔚 -[_NSArrayM dealloc] (1)9.28MB 16 | IIOImageSource::~IIOImageSource() 17 IIOImageSource::~IIOImageSource() ------18 ____CGImageSourceFinalize(void const*) 19 🗮 _CFRelease 20 ____-[ViewController touchesEnded:withEvent:] 21 D forwardTouchMethod 22 D -[UIResponder touchesEnded:withEvent:]

> (heap)原始数据 -> (VM)CGBitmapAllocateData -> (VM)ImageIO_PNG_Data -> (heap)DataHandle -> (*heap)DataHandle -> (VM)DataPrivider -> (*VM)CGBitmapAllocateData -> (*VM)ImageIO_PNG_Data -> (*heap)原始数据 -> (*VM)DataPrivider

(5)14.08MB

23 __ -[UIWindow _sendTouchesForEvent:]

26 ____dispatchPreprocessedEventFromEventQueue

29 = __CFRUNLOOP_IS_CALLING_OUT_TO_A_SOURCEO_PERFORM_FUNCTION__

24 D -[UIWindow sendEvent:] 25 _ -[UIApplication sendEvent:]

27 __handleEventQueueInternal 28 __handleHIDEventFetcherDrain

30 E __CFRunLoopDoSource0 31 E __CFRunLoopDoSources0 32 == _CFRunLoopRun 33 E CFRunLoopRunSpecific 34 CSEventRunModal 35 🔃 UIApplicationMain

36 ឮ main 37 💿 start

Category: VM: CG raster data Type: VM Dealloc Pointer: 0x107d94000 Size: -14761984

> 0 mach_vm_deallocate 1 🗮 __CFDataDeallocate 2 🚞 _CFRelease

3 🕒 data_provider_finalize 4 🕒 data_provider_retain_count

9 CA::Transaction::commit()

12 E __CFRunLoopDoObservers 13 == __CFRunLoopRun 14 E CFRunLoopRunSpecific 15 🛅 GSEventRunModal 16 🔃 UIApplicationMain

8 CA::release_objects(X::List<void const*>*)

10 CA::Transaction::observer_callback(_CFRunLoopObserver*, unsigned long, void*) 11 E __CFRUNLOOP_IS_CALLING_OUT_TO_AN_OBSERVER_CALLBACK_FUNCTION_

5 🧮 _CFRelease

17 ឮ main 18 💿 start

6 🕒 image_finalize 7 🗮 _CFRelease

Description

Stack Trace