

Process: WindowServer [185]
Path: /System/Library/PrivateFrameworks/SkyLight.framework/Versions/A/Resources/WindowServer
Identifier: WindowServer
Version: ???
Code Type: X86-64 (Native)
Parent Process: launchd [1]
User ID: 88

Date/Time: 2023-03-07 10:38:52.9442 +0100
OS Version: macOS 13.2.1 (22D68)
Report Version: 12
Bridge OS Version: 3.0 (14Y910)
Anonymous UUID: 1360B342-8999-8C03-D48D-38FF2A328EAB

Sleep/Wake UUID: 0E0AC6CD-5E7E-453F-8BC9-C4DB194B40A7

Time Awake Since Boot: 570000 seconds

Time Since Wake: 11902 seconds

System Integrity Protection: enabled

Crashed Thread: 0 ws_main_thread Dispatch queue: com.apple.main-thread

Exception Type: EXC_BAD_ACCESS (SIGSEGV)
Exception Codes: KERN_INVALID_ADDRESS at 0x00007ff8689d2e00

Exception Codes: 0x0000000000000001, 0x00007ff8689d2e00

Termination Reason: Namespace SIGNAL, Code 11 Segmentation fault: 11

Terminating Process: exc handler [185]

VM Region Info: 0x7ff8689d2e00 is not in any region. Bytes after previous region: 505159169 Bytes before following region: 502489600

| REGION TYPE SHRMOD REGION DETAIL | START - END | [VSIZE] PRT/MAX |
|-------------------------------------|---------------------------|-------------------------------|
| unused __DATA lib __DATA | 7ff84a800000-7ff84a811000 | [68K] rw-/rw- SM=COW ...ed |
| ---> GAP OF 0x3c0f8000 BYTES | | |
| __LINKEDIT | 7ff886909000-7ff891edd000 | [181.8M] r--/r-- SM=COW ...ed |
| __LINKEDIT | | |

Kernel Triage:

VM - Returned success with no page

VM - A memory corruption was found in executable text

Thread 0 Crashed:: ws_main_thread Dispatch queue: com.apple.main-thread

| | |
|---|---|
| 0 LaunchServices | 0x7ff8071d4dc0 |
| LSSharedMemoryPage::CopyForSessionID(LSSessionID, bool) | + 96 |
| 1 LaunchServices | 0x7ff8071ee856 _LSGetFrontApplicationSeed + 65 |
| 2 SkyLight | 0x7ff80bb276c0 GetFrontProcessRecCheckingEligibility + 77 |

3 SkyLight 0x7ff80ba56276 CPXGetFrontProcessesConnectionID + 60

4 SkyLight 0x7ff80bada3fd WSForegroundProcessConnection + 14

5 SkyLight 0x7ff80bb36732
WSCurrentSessionHasImmediateUpdatesEnabled + 54

6 SkyLight 0x7ff80bc21cb5 CGXScheduleUpdateDisplay + 36

7 SkyLight 0x7ff80bcfb1b2 invocation function for block in
layerkit_perform_on_main_thread(ca_context_notification_info*, void (CGXConnection*)
block_pointer) + 322

8 SkyLight 0x7ff80ba15cf6
block_hoist_invoke_blocks(WSMainThreadBlockHoist*, bool) + 203

9 SkyLight 0x7ff80ba15c27 block_hoist_notification_handler(unsigned int,
mach_msg_header_t*, void*) + 17

10 SkyLight 0x7ff80bce15af post_port_data + 271

11 SkyLight 0x7ff80bce1237 CGXRunOneServicesPass + 1672

12 SkyLight 0x7ff80bce1c7b server_loop + 91

13 SkyLight 0x7ff80bce1adb SLXServer + 1233

14 WindowServer 0x1003b448c 0x1003b1000 + 13452

15 dyld 0x7ff8069a3310 start + 2432

Thread 1:: com.apple.coreanimation.render-server

0 libsystem_kernel.dylib 0x7ff806c975c2 mach_msg2_trap + 10

1 libsystem_kernel.dylib 0x7ff806ca5604 mach_msg2_internal + 82

2 libsystem_kernel.dylib 0x7ff806c9e635 mach_msg_overwrite + 723

3 libsystem_kernel.dylib 0x7ff806c978a8 mach_msg + 19

4 QuartzCore 0x7ff80e8a3ac1 CA::Render::Server::server_thread(void*) +
534

5 QuartzCore 0x7ff80e8a38a4 thread_fun(void*) + 25

6 libsystem_pthread.dylib 0x7ff806cd6259 _pthread_start + 125

7 libsystem_pthread.dylib 0x7ff806cd1c7b thread_start + 15

Thread 2:: Dispatch queue: com.apple.VirtualDisplayListener

0 libsystem_kernel.dylib 0x7ff806c975c2 mach_msg2_trap + 10
1 libsystem_kernel.dylib 0x7ff806ca5604 mach_msg2_internal + 82
2 libsystem_kernel.dylib 0x7ff806c9e635 mach_msg_overwrite + 723
3 libsystem_kernel.dylib 0x7ff806ca0519 mach_msg_server_once + 277
4 CoreDisplay 0x7ff808732560 -[VirtualDisplayListener rx] + 77
5 libdispatch.dylib 0x7ff806b557fb _dispatch_call_block_and_release + 12
6 libdispatch.dylib 0x7ff806b56a44 _dispatch_client_callout + 8
7 libdispatch.dylib 0x7ff806b5cac4 _dispatch_lane_serial_drain + 694
8 libdispatch.dylib 0x7ff806b5d5b4 _dispatch_lane_invoke + 366
9 libdispatch.dylib 0x7ff806b67ad7 _dispatch_workloop_worker_thread + 762
10 libsystem_pthread.dylib 0x7ff806cd2ce3 _pthread_wqthread + 326
11 libsystem_pthread.dylib 0x7ff806cd1c67 start_wqthread + 15

Thread 3:: IOHIDService - RunLoopCompatibilityThread

0 libsystem_kernel.dylib 0x7ff806c975c2 mach_msg2_trap + 10
1 libsystem_kernel.dylib 0x7ff806ca5604 mach_msg2_internal + 82
2 libsystem_kernel.dylib 0x7ff806c9e635 mach_msg_overwrite + 723
3 libsystem_kernel.dylib 0x7ff806c978a8 mach_msg + 19
4 CoreFoundation 0x7ff806db1cbe __CFRunLoopServiceMachPort + 145
5 CoreFoundation 0x7ff806db072a __CFRunLoopRun + 1360
6 CoreFoundation 0x7ff806dafb60 CFRunLoopRunSpecific + 560
7 CoreFoundation 0x7ff806e347aa CFRunLoopRun + 40

| | | |
|----|-------------------------|---|
| 8 | IOKit | 0x7ff809dfb72f __IOHIDServiceRunLoopCompatibilityThread + 306 |
| 9 | libsystem_pthread.dylib | 0x7ff806cd6259 _pthread_start + 125 |
| 10 | libsystem_pthread.dylib | 0x7ff806cd1c7b thread_start + 15 |

Thread 4:

| | | |
|---|-------------------------|---|
| 0 | libsystem_kernel.dylib | 0x7ff806c975c2 mach_msg2_trap + 10 |
| 1 | libsystem_kernel.dylib | 0x7ff806ca5604 mach_msg2_internal + 82 |
| 2 | libsystem_kernel.dylib | 0x7ff806c9e635 mach_msg_overwrite + 723 |
| 3 | libsystem_kernel.dylib | 0x7ff806c978a8 mach_msg + 19 |
| 4 | CoreDisplay | 0x7ff80880b6f5 CoreDisplay::Mach::Server::Start() + 147 |
| 5 | CoreDisplay | 0x7ff80880b85b void* std::__1::__thread_proxy<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct, std::__1::default_delete<std::__1::__thread_struct>>, void (CoreDisplay::Mach::Server::*)(CoreDisplay::Mach::Server*)>>(void*) + 59 |
| 6 | libsystem_pthread.dylib | 0x7ff806cd6259 _pthread_start + 125 |
| 7 | libsystem_pthread.dylib | 0x7ff806cd1c7b thread_start + 15 |

Thread 5:

| | | |
|---|------------------------|---|
| 0 | libsystem_kernel.dylib | 0x7ff806c975c2 mach_msg2_trap + 10 |
| 1 | libsystem_kernel.dylib | 0x7ff806ca5604 mach_msg2_internal + 82 |
| 2 | libsystem_kernel.dylib | 0x7ff806c9e635 mach_msg_overwrite + 723 |
| 3 | libsystem_kernel.dylib | 0x7ff806c978a8 mach_msg + 19 |
| 4 | CoreFoundation | 0x7ff806db1cbe __CFRunLoopServiceMachPort + 145 |
| 5 | CoreFoundation | 0x7ff806db072a __CFRunLoopRun + 1360 |
| 6 | CoreFoundation | 0x7ff806dafb60 CFRunLoopRunSpecific + 560 |
| 7 | CoreFoundation | 0x7ff806e347aa CFRunLoopRun + 40 |

| | | |
|----|-------------------------|-------------------------------------|
| 8 | AppleHIDALS | 0x10053c40a 0x10052d000 + 62474 |
| 9 | libsystem_pthread.dylib | 0x7ff806cd6259 _pthread_start + 125 |
| 10 | libsystem_pthread.dylib | 0x7ff806cd1c7b thread_start + 15 |

Thread 6:

| | | |
|---|-------------------------|-----------------------------------|
| 0 | libsystem_pthread.dylib | 0x7ff806cd1c58 start_wqthread + 0 |
|---|-------------------------|-----------------------------------|

Thread 7:: com.apple.windowserver.root_queue

| | | |
|---|-------------------------|---|
| 0 | libsystem_kernel.dylib | 0x7ff806c97556 semaphore_timedwait_trap + 10 |
| 1 | libdispatch.dylib | 0x7ff806b56f75 _dispatch_sema4_timedwait + 72 |
| 2 | libdispatch.dylib | 0x7ff806b573af _dispatch_semaphore_wait_slow + 58 |
| 3 | libdispatch.dylib | 0x7ff806b664cf _dispatch_worker_thread + 324 |
| 4 | libsystem_pthread.dylib | 0x7ff806cd6259 _pthread_start + 125 |
| 5 | libsystem_pthread.dylib | 0x7ff806cd1c7b thread_start + 15 |

Thread 8:: com.apple.windowserver.root_queue

| | | |
|---|-------------------------|---|
| 0 | libsystem_kernel.dylib | 0x7ff806c97556 semaphore_timedwait_trap + 10 |
| 1 | libdispatch.dylib | 0x7ff806b56f75 _dispatch_sema4_timedwait + 72 |
| 2 | libdispatch.dylib | 0x7ff806b573af _dispatch_semaphore_wait_slow + 58 |
| 3 | libdispatch.dylib | 0x7ff806b664cf _dispatch_worker_thread + 324 |
| 4 | libsystem_pthread.dylib | 0x7ff806cd6259 _pthread_start + 125 |
| 5 | libsystem_pthread.dylib | 0x7ff806cd1c7b thread_start + 15 |

Thread 9:: com.apple.windowserver.root_queue

| | | |
|---|------------------------|--|
| 0 | libsystem_kernel.dylib | 0x7ff806c97556 semaphore_timedwait_trap + 10 |
|---|------------------------|--|

| | | |
|---|-------------------------|---|
| 1 | libdispatch.dylib | 0x7ff806b56f75 _dispatch_sema4_timedwait + 72 |
| 2 | libdispatch.dylib | 0x7ff806b573af _dispatch_semaphore_wait_slow + 58 |
| 3 | libdispatch.dylib | 0x7ff806b664cf _dispatch_worker_thread + 324 |
| 4 | libsystem_pthread.dylib | 0x7ff806cd6259 _pthread_start + 125 |
| 5 | libsystem_pthread.dylib | 0x7ff806cd1c7b thread_start + 15 |

Thread 10:

| | | |
|---|-------------------------|-----------------------------------|
| 0 | libsystem_pthread.dylib | 0x7ff806cd1c58 start_wqthread + 0 |
|---|-------------------------|-----------------------------------|

Thread 11:

| | | |
|---|-------------------------|-----------------------------------|
| 0 | libsystem_pthread.dylib | 0x7ff806cd1c58 start_wqthread + 0 |
|---|-------------------------|-----------------------------------|

Thread 12:

| | | |
|---|-------------------------|-----------------------------------|
| 0 | libsystem_pthread.dylib | 0x7ff806cd1c58 start_wqthread + 0 |
|---|-------------------------|-----------------------------------|

Thread 13:

| | | |
|---|-------------------------|-----------------------------------|
| 0 | libsystem_pthread.dylib | 0x7ff806cd1c58 start_wqthread + 0 |
|---|-------------------------|-----------------------------------|

Thread 0 crashed with X86 Thread State (64-bit):

rax: 0x0000000000000000 rbx: 0x0000000000000720 rcx: 0x0000002000000000 rdx: 0x0000000000000001

rdi: 0x000060002974780 rsi: 0x0000000000000001 rbp: 0x00007ff7fb3dfb0 rsp: 0x00007ff7fb3deb0

r8: 0x000000000000c25 r9: 0x00000000000031c r10: 0x0000000000002ce r11: 0x00000000000031c

r12: 0x0000000000000001 r13: 0x00007ff7fb3df20 r14: 0x0000000000000001 r15:
0x00000000000186a3

rip: 0x00007ff8071d4dc0 rfl: 0x0000000000010246 cr2: 0x00007ff8689d2e00

Logical CPU: 0

Error Code: 0x00000004 (no mapping for user data read)

Trap Number: 14

Thread 0 instruction stream:

55 48 89 e5 41 57 41 56-41 55 41 54 53 48 81 ec UH..AWAVAUATSH..

d8 00 00 00 41 89 f6 41-89 ff 48 8b 05 9f e2 7fA..A..H.....

41 48 8b 00 48 89 45 d0-31 c0 4c 8d ad 70 ff ff AH..H.E.1.L..p..

ff 49 89 45 00 4d 89 6d-08 48 b9 00 00 00 00 20 .I.E.M.m.H.....

00 00 00 49 89 4d 10 49-89 45 18 48 83 3d 8d 59 ...I.M.I.E.H.=.Y

45 43 ff 0f 85 5b 03 00-00 48 8b 3d 88 59 45 43 EC...[...H.=.YEC

[4c]8b 25 39 e0 7f 61 48-8d b5 00 ff ff ff 4c 89 L.%9..aH.....L. <==

26 48 c7 46 08 00 00 00-42 48 8d 05 85 03 00 00 &H.F....BH.....

48 89 46 10 48 8d 05 8d-33 77 3f 48 89 46 18 44 H.F.H...3w?H.F.D

89 7e 28 4c 89 6e 20 e8-dc cd 1d 00 48 8b 85 78 .~(L.nH..x

ff ff ff 48 8b 58 18 48-85 db 0f 85 ce 02 00 00 ...H.X.H.....

45 84 f6 0f 84 c5 02 00-00 48 8d 9d 58 ff ff ff E.....H..X...

Binary Images:

0x7ff8071cc000 - 0x7ff807448ffd com.apple.LaunchServices (1141.1) <cdfaca75-240c-3248-b15b-0f83c1157f0e>
/System/Library/Frameworks/CoreServices.framework/Versions/A/Frameworks/LaunchServices.framework/Versions/A/LaunchServices

0x7ff80b9d3000 - 0x7ff80bdbcffb com.apple.SkyLight (1.600.0) <4c59f9b6-698c-332e-931f-e86cfb74790a>
/System/Library/PrivateFrameworks/SkyLight.framework/Versions/A/SkyLight

0x1003b1000 - 0x1003b4fff WindowServer (*) <6b63e6cb-99fd-373a-b52d-a4eee9a96c83>
/System/Library/PrivateFrameworks/SkyLight.framework/Versions/A/Resources/WindowServer

0x7ff80699d000 - 0x7ff806a31caf dyld (*) <bba77709-6cad-3592-ab03-09d0f7b8610e>
/usr/lib/dyld

0x7ff806c96000 - 0x7ff806ccfff7 libsystem_kernel.dylib (*) <87ff381c-4d30-3087-bab7-a5a53d232c00> /usr/lib/system/libsystem_kernel.dylib

0x7ff80e85b000 - 0x7ff80ebadff3 com.apple.QuartzCore (1.11) <c24311d4-71c0-372c-869c-b3c4961a4174>
/System/Library/Frameworks/QuartzCore.framework/Versions/A/QuartzCore

0x7ff806cd0000 - 0x7ff806cdbff7 libsystem_pthread.dylib (*) <3bd433d4-15bd-3add-a612-95e4d3b20719> /usr/lib/system/libsystem_pthread.dylib

0x7ff808721000 - 0x7ff80884cff8 com.apple.CoreDisplay (276) <e92e07f7-28ee-3092-8b5c-e431130dbd37>
/System/Library/Frameworks/CoreDisplay.framework/Versions/A/CoreDisplay

0x7ff806b54000 - 0x7ff806b9aff3 libdispatch.dylib (*) <d59ee79a-169a-3799-8ea1-c8ad56bb11c9> /usr/lib/system/libdispatch.dylib

0x7ff806d32000 - 0x7ff8071cbfef com.apple.CoreFoundation (6.9) <c2615780-0140-315c-a455-7e03bb22d3d6>
/System/Library/Frameworks/CoreFoundation.framework/Versions/A/CoreFoundation

0x7ff809da4000 - 0x7ff809e62ff8 com.apple.framework.IOKit (2.0.2) <45f3fd04-1cad-30af-8926-f905e2572494> /System/Library/Frameworks/IOKit.framework/Versions/A/IOKit

0x10052d000 - 0x100540fff com.apple.hid.AppleHIDALSServicePlugin (1.0) <31df5bcd-8e28-37dc-bbc3-999448a8ce7c>
/System/Library/Extensions/AppleHIDALSService.kext/Contents/PlugIns/AppleHIDALSService.plugin/Contents/MacOS/AppleHIDALSService

0x0 - 0xfffffffffffffff ??? (*) <00000000-0000-0000-0000-000000000000> ???

External Modification Summary:

Calls made by other processes targeting this process:

task_for_pid: 0

thread_create: 0

thread_set_state: 0

Calls made by this process:

task_for_pid: 0

thread_create: 0

thread_set_state: 0

Calls made by all processes on this machine:

task_for_pid: 0

thread_create: 0

thread_set_state: 0

VM Region Summary:

ReadOnly portion of Libraries: Total=414.9M resident=0K(0%)
swapped_out_or_unallocated=414.9M(100%)

Writable regions: Total=4.1G written=0K(0%) resident=0K(0%) swapped_out=0K(0%)
unallocated=4.1G(100%)

VIRTUAL REGION

| REGION TYPE | SIZE | COUNT (non-coalesced) | |
|----------------------------|--------|-----------------------|---|
| Activity Tracing | 256K | 1 | |
| CG backing stores | 42.3M | 301 | |
| CG framebuffers | 1.1G | 12 | |
| CG framebuffers (reserved) | 596.1M | 9 | reserved VM address space (unallocated) |
| CG raster data | 56.3M | 194 | |
| ColorSync | 252K | 31 | |

| | | | |
|---|--------|-------|---------------------------|
| CoreAnimation | 704.9M | 17504 | |
| CoreGraphics | 784K | 194 | |
| Kernel Alloc Once | 8K | 1 | |
| MALLOC | 1.6G | 1003 | |
| MALLOC guard page | 32K | 8 | |
| MALLOC_NANO (reserved) (unallocated) | 384.0M | 1 | reserved VM address space |
| Mach message | 12K | 1 | |
| STACK GUARD | 56.1M | 14 | |
| Stack | 15.1M | 14 | |
| VM_ALLOCATE | 26.3M | 1370 | |
| VM_ALLOCATE (reserved) (unallocated) | 72K | 16 | reserved VM address space |
| __CGSERVER | 16K | 1 | |
| __DATA | 15.3M | 322 | |
| __DATA_CONST | 14.4M | 212 | |
| __DATA_DIRTY | 642K | 106 | |
| __FONT_DATA | 2352 | 1 | |
| __LINKEDIT | 182.8M | 23 | |
| __OBJC_RO | 65.5M | 1 | |
| __OBJC_RW | 1989K | 2 | |
| __SLSERVER | 16K | 1 | |
| __TEXT | 232.1M | 346 | |
| dyld private memory | 256K | 1 | |
| mapped file | 54.7M | 28 | |
| shared memory | 1516K | 57 | |

===== ====== =====

TOTAL 5.1G 21775

TOTAL, minus reserved VM space 4.2G 21775

Full Report

```
{"app_name": "WindowServer", "timestamp": "2023-03-07 10:39:00.00+0100", "app_version": "", "slice_uuid": "6b63e6cb-99fd-373a-b52da4eee9a96c83", "build_version": "", "platform": 1, "share_with_app_devs": 0, "is_first_party": 1, "bug_type": "309", "os_version": "macOS 13.2.1 (22D68)", "roots_installed": 0, "incident_id": "A75E2C78-6941-4322-8613-50A6845C7BC9", "name": "WindowServer"}
```

{

 "uptime" : 570000,

 "procRole" : "Graphics",

 "version" : 2,

 "userID" : 88,

 "deployVersion" : 210,

 "modelCode" : "MacBookPro14,3",

 "coalitionID" : 157,

 "osVersion" : {

 "train" : "macOS 13.2.1",

 "build" : "22D68",

 "releaseType" : "User"

```
},  
  "captureTime" : "2023-03-07 10:38:52.9442 +0100",  
  "incident" : "A75E2C78-6941-4322-8613-50A6845C7BC9",  
  "pid" : 185,  
  "cpuType" : "X86-64",  
  "roots_installed" : 0,  
  "bug_type" : "309",  
  "procLaunch" : "2023-02-26 10:54:37.9506 +0100",  
  "procStartAbsTime" : 16966795507,  
  "procExitAbsTime" : 574256619349097,  
  "procName" : "WindowServer",  
  "procPath" :  
    "\\\System\\Library\\PrivateFrameworks\\SkyLight.framework\\Versions\\A\\Resources\\Wind  
owServer",  
  "parentProc" : "launchd",  
  "parentPid" : 1,  
  "coalitionName" : "com.apple.WindowServer",  
  "crashReporterKey" : "1360B342-8999-8C03-D48D-38FF2A328EAB",  
  "throttleTimeout" : 10,  
  "wakeTime" : 11902,  
  "bridgeVersion" : {"build":"14Y910","train":"3.0"},  
  "sleepWakeUUID" : "0E0AC6CD-5E7E-453F-8BC9-C4DB194B40A7",  
  "sip" : "enabled",  
  "vmRegionInfo" : "0x7ff8689d2e00 is not in any region. Bytes after previous region:  
505159169 Bytes before following region: 502489600\n      REGION  
TYPE          START - END      [ VSIZE] PRT\\MAX SHRMOD REGION  
DETAIL\\n    unused _DATA      7ff84a800000-7ff84a811000 [ 68K] rw-\\rw-  
SM=COW ...ed lib _DATA\\n---> GAP OF 0x3c0f8000
```

BYTES\n __LINKEDIT 7ff886909000-7ff891edd000 [181.8M] r--\r--
 SM=COW ...ed __LINKEDIT",

"exception" : {"codes": "0x0000000000000001,
 0x00007ff8689d2e00", "rawCodes": [1, 140704883748352], "type": "EXC_BAD_ACCESS", "signal": "SIGSEGV", "subtype": "KERN_INVALID_ADDRESS at 0x00007ff8689d2e00"},
 "termination" : {"flags": 1024, "code": 11, "namespace": "SIGNAL", "indicator": "Segmentation fault: 11", "byProc": "exc handler", "byPid": 185},
 "ktrriageinfo" : "VM - Returned success with no page\nVM - Returned success with no page\nVM - Returned success with no page\nVM - A memory corruption was found in executable text\n",
 "vmregioninfo" : "0x7ff8689d2e00 is not in any region. Bytes after previous region:
 505159169 Bytes before following region: 502489600\n REGION
 TYPE START - END [VSIZE] PRT\MAX SHRMOD REGION
 DETAIL\n unused __DATA 7ff84a800000-7ff84a811000 [68K] rw-\rww-
 SM=COW ...ed lib __DATA\n---> GAP OF 0x3c0f8000
 BYTES\n __LINKEDIT 7ff886909000-7ff891edd000 [181.8M] r--\r--
 SM=COW ...ed __LINKEDIT",

"extMods" :
 {"caller": {"thread_create": 0, "thread_set_state": 0, "task_for_pid": 0}, "system": {"thread_create": 0, "thread_set_state": 0, "task_for_pid": 0}, "targeted": {"thread_create": 0, "thread_set_state": 0, "task_for_pid": 0}, "warnings": 0},

"faultingThread" : 0,

"threads" : [{"queue": "com.apple.main-thread", "instructionState": {"instructionStream": {"bytes": [85, 72, 137, 229, 65, 87, 65, 86, 65, 85, 65, 84, 83, 72, 129, 236, 216, 0, 0, 0, 65, 137, 246, 65, 137, 255, 72, 139, 5, 159, 226, 127, 65, 72, 139, 0, 72, 137, 69, 208, 49, 192, 76, 141, 173, 112, 255, 255, 73, 137, 69, 0, 77, 137, 109, 8, 72, 185, 0, 0, 0, 32, 0, 0, 0, 73, 137, 77, 16, 73, 137, 69, 24, 72, 131, 61, 141, 89, 69, 67, 255, 15, 133, 91, 3, 0, 0, 72, 139, 61, 136, 89, 69, 67, 76, 139, 37, 57, 224, 127, 97, 72, 141, 181, 0, 255, 255, 255, 76, 137, 38, 72, 199, 70, 8, 0, 0, 0, 66, 72, 141, 5, 133, 3, 0, 0, 72, 137, 70, 16, 72, 141, 5, 141, 51, 119, 63, 72, 137, 70, 24, 68, 137, 126, 40, 76, 137, 110, 32, 232, 220, 205, 29, 0, 72, 139, 133, 120, 255, 255, 72, 139, 88, 24, 72, 133, 219, 15, 133, 206, 2, 0, 0, 69, 132, 246, 15, 132, 197, 2, 0, 0, 72, 141, 157, 88, 255, 255, 255], "offset": 96}, {"imageOffset": 36288, "symbol": "LSSharedMemoryPage::CopyForSessionID(LSSessionID, bool)", "symbolLocation": 96, "imageIndex": 0}, {"imageOffset": 141398, "symbol": "_LSGetFrontApplicationSeed", "symbolLocation": 65, "imageIndex": 0}, {"imageOffset": 1394368, "symbol": "GetFrontProcessRecCheckingEligibility", "symbolLocation": 77, "imageIndex": 1}, {"imageOffset": 537206, "symbol": "CPXGetFrontProcessesConnectionID", "symbolLocation": 60, "imageIndex": 1}, {"imageOffset": 1078269, "symbol": "WSForegroundProcessConnection", "symbolLocation": 14, "imageIndex": 1}, {"imageOffset": 1455922, "symbol": "WSCurrentSessionHasImmediateUpdatesEnabled", "symbolLocation": 54, "imageIndex": 1}, {"imageOffset": 2419893, "symbol": "CGXScheduleUpdateDisplay", "symbolLocation": 36, "imageIndex": 1}, {"imageOffset": 3310002, "symbol": "invocation function for block in layerkit_perform_on_main_thread(ca_context_notification_info*, void (CGXConnection*) block_pointer)", "symbolLocation": 322, "imageIndex": 1}, {"imageOffset": 273654, "symbol": "layerkit_perform_on_main_thread(ca_context_notification_info*, void (CGXConnection*) block_pointer)"}

block_hoist_invoke_blocks(WSMainThreadBlockHoist*,
bool)","symbolLocation":203,"imageIndex":1}, {"imageOffset":273447,"symbol":"block_hoi
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swapped_out_or_unallocated=414.9M(100%)\nWritable regions: Total=4.1G  
written=0K(0%) resident=0K(0%) swapped_out=0K(0%)  
unallocated=4.1G(100%)\n\n VIRTUAL REGION \nREGION  
TYPE SIZE COUNT (non-coalesced)  
\n===== ===== ===== \nActivity
```

| | | | | | | |
|---------------------------|--------|--------|--|---------------------------|-------|------|
| Tracing | 256K | 1 | \nCG backing stores | 42.3M | 301 | \nCG |
| framebuffers | | 1.1G | 12 \nCG framebuffers | | | |
| (reserved) | 596.1M | 9 | reserved VM address space (unallocated)\nCG raster | | | |
| data | 56.3M | 194 | \nColorSync | 252K | 31 | |
| \nCoreAnimation | | 704.9M | 17504 \nCoreGraphics | | 784K | 194 |
| \nKernel Alloc Once | | 8K | 1 \nALLOC | | 1.6G | 1003 |
| \nALLOC guard page | | 32K | 8 \nALLOC_NANO | | | |
| (reserved) | 384.0M | 1 | reserved VM address space (unallocated)\nMach | | | |
| message | 12K | 1 | \nSTACK GUARD | 56.1M | 14 | |
| \nStack | | 15.1M | 14 \nVM_ALLOCATE | | 26.3M | 1370 |
| \nVM_ALLOCATE (reserved) | | 72K | 16 | reserved VM address space | | |
| (unallocated)\n__CGSERVER | | | 16K | 1 | | |
| \n__DATA | 15.3M | 322 | \n__DATA_CONST | | 14.4M | 212 |
| \n__DATA_DIRTY | | 642K | 106 \n__FONT_DATA | | | 2352 |
| \n__LINKEDIT | | 182.8M | 23 \n__OBJC_RO | | 65.5M | 1 |
| \n__OBJC_RW | | 1989K | 2 \n__SLSERVER | | | 16K |
| \n__TEXT | | 232.1M | 346 \ndyld private memory | | 256K | 1 |
| \nmapped file | | 54.7M | 28 \nshared memory | | 1516K | 57 |
| \n===== | | ===== | ===== | | | |
| \nTOTAL | 5.1G | 21775 | \nTOTAL, minus reserved VM | | | |
| space | 4.2G | 21775 | \n", | | | |

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}

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Model: MacBookPro14,3, BootROM 499.40.2.0.0, 4 processors, Quad-Core Intel Core i7, 2.9 GHz, 16 GB, SMC 2.45f5

Graphics: Intel HD Graphics 630, Intel HD Graphics 630, Built-In

Graphics: Radeon Pro 560, Radeon Pro 560, PCIe, 4 GB

Display: Color LCD, 2880 x 1800 Retina, MirrorOff, Online

Display: HP Z27i, 2560 x 1440 (QHD/WQHD - Wide Quad High Definition), Main, MirrorOff, Online

Memory Module: BANK 0/DIMM0, 8 GB, LPDDR3, 2133 MHz, 0x802C,
0x4D5435324C31473332443450472D30393320

Memory Module: BANK 1/DIMM0, 8 GB, LPDDR3, 2133 MHz, 0x802C,
0x4D5435324C31473332443450472D30393320

AirPort: spairport_wireless_card_type_wifi (0x14E4, 0x173), Broadcom BCM43xx 1.0
(7.77.111.1 AirPortDriverBrcmNIC-1766)

AirPort:

Bluetooth: Version (null), 0 services, 0 devices, 0 incoming serial ports

Network Service: Wi-Fi, AirPort, en0

USB Device: USB3.0 Hub

USB Device: USB30Bus

USB Device: Apple T1 Controller

USB Device: USB2.0 Hub

USB Device: Logitech Webcam C930e

USB Device: USB-C Digital AV Multiport Adapter

Thunderbolt Bus: MacBook Pro, Apple Inc., 41.5

Thunderbolt Bus: MacBook Pro, Apple Inc., 41.5