

## LoginWindow

Process: loginwindow [833]  
Path: /System/Library/CoreServices/loginwindow.app/Contents/MacOS/loginwindow  
Identifier: com.apple.loginwindow  
Version: 9.0 (1984)  
Build Info: loginwindow-1984000000000000~6  
Code Type: X86-64 (Native)  
Parent Process: launchd [1]  
Responsible: loginwindow [833]  
User ID: 501

Date/Time: 2019-11-01 18:02:13.984 +0000  
OS Version: Mac OS X 10.15 (19A583)  
Report Version: 12  
Anonymous UUID: BEF10A0D-672D-9364-0D4C-1563ABE5F5D4

Sleep/Wake UUID: 74582BD5-60FE-494A-82A1-AC64E33EAC00

Time Awake Since Boot: 900 seconds

Time Since Wake: 340 seconds

System Integrity Protection: disabled

Crashed Thread: 1 Dispatch queue: NSCGSDisableUpdates

Exception Type: EXC\_CRASH (SIGABRT)

Exception Codes: 0x0000000000000000, 0x0000000000000000

## Application Specific Information:

\*\*\*\*\*StartSessionState\*\*\*\*\*

\* Overall state: Login - Logging In

\* Login state: FinderEtcLaunched

\* Logout state: Unset

\*\*\*\*\*State Sequences\*\*\*\*\*

\* Login States: InitialStartup, WindowServerConnectionMade, FinishLaunchingStart, StartedAuthCopy, LoginwindowUIShown, ReturnFromAuthCopy, KeychainUnlocked, KeybagUnlocked, CreateAndSwitch, MountedServers, DeletedUserFolders, TALLaunchStart, FinderEtcLaunched,

\* Logout States: None

\*\*\*\*\*EndSessionState\*\*\*\*\*

abort() called

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

0	libsystem_kernel.dylib	0x00007fff690d7146 mach_msg_trap + 10
1	libsystem_kernel.dylib	0x00007fff690d76ac mach_msg + 60
2	com.apple.CoreFoundation	0x00007fff31d780d0 __CFRunLoopServiceMachPort + 322
3	com.apple.CoreFoundation	0x00007fff31d77656 __CFRunLoopRun + 1705
4	com.apple.CoreFoundation	0x00007fff31d76d38 CFRunLoopRunSpecific + 503
5	com.apple.Foundation	0x00007fff3447ea59 -[NSConcreteTask waitUntilExit] + 286
6	com.apple.loginwindow	0x000000001055e7833 0x1055b1000 + 223283
7	libdispatch.dylib	0x00007fff68f3d553 _dispatch_call_block_and_release + 12
8	libdispatch.dylib	0x00007fff68f3e4de _dispatch_client_callout + 8
9	libdispatch.dylib	0x00007fff68f49bd3 _dispatch_main_queue_callback_4CF + 1105
10	com.apple.CoreFoundation	0x00007fff31d781c5 __CFRUNLOOP_IS_SERVICING_THE_MAIN_DISPATCH_QUEUE__ + 9

11	com.apple.CoreFoundation	0x00007fff31d778fd __CFRunLoopRun + 2384
12	com.apple.CoreFoundation	0x00007fff31d76d38 CFRunLoopRunSpecific + 503
13	com.apple.HIToolbox	0x00007fff308f3b2d RunCurrentEventLoopInMode + 292
14	com.apple.HIToolbox	0x00007fff308f386d ReceiveNextEventCommon + 600
15	com.apple.HIToolbox	0x00007fff308f35f7 _BlockUntilNextEventMatchingListInModeWithFilter + 64
16	com.apple.AppKit	0x00007fff2ef89ac4 _DPSNextEvent + 990
17	com.apple.AppKit	0x00007fff2ef88834 -[NSApplication(NSEvent) _nextEventMatchingEventMask:untilDate:inMode:dequeue:] + 1352
18	com.apple.AppKit	0x00007fff2ef82fd4 -[NSApplication run] + 658
19	com.apple.loginwindow	0x000000001055b6e9f 0x1055b1000 + 24223
20	libdyld.dylib	0x00007fff68f8e405 start + 1

Thread 1 Crashed:: Dispatch queue: NSCGSDisableUpdates

0	libsystem_kernel.dylib	0x00007fff690dd47a __pthread_kill + 10
1	libsystem_pthread.dylib	0x00007fff6919e707 pthread_kill + 384
2	libsystem_c.dylib	0x00007fff69065a08 abort + 120
3	SkyLightOriginal	0x0000000010579d778 SLSReenableUpdateTokenWithSeed + 410
4	libdispatch.dylib	0x00007fff68f3d553 _dispatch_call_block_and_release + 12
5	libdispatch.dylib	0x00007fff68f3e4de _dispatch_client_callout + 8
6	libdispatch.dylib	0x00007fff68f43a9e _dispatch_lane_serial_drain + 597
7	libdispatch.dylib	0x00007fff68f44422 _dispatch_lane_invoke + 363
8	libdispatch.dylib	0x00007fff68f4daa1 _dispatch_workloop_worker_thread + 598
9	libsystem_pthread.dylib	0x00007fff6919b763 _pthread_wqthread + 290
10	libsystem_pthread.dylib	0x00007fff6919b5c3 start_wqthread + 15

Thread 2:

0	libsystem_pthread.dylib	0x00007fff6919b5b4 start_wqthread + 0
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Thread 3:

0 libsystem\_pthread.dylib 0x00007fff6919b5b4 start\_wqthread + 0

Thread 4:: AMCP Logging Spool

0 libsystem\_kernel.dylib 0x00007fff690d7182 semaphore\_wait\_trap + 10  
1 com.apple.audio.caulk 0x00007fff65125ec6 caulk::mach::semaphore::wait() + 16  
2 com.apple.audio.caulk 0x00007fff65121442  
caulk::semaphore::timed\_wait(double) + 106  
3 com.apple.audio.caulk 0x00007fff65124a14  
caulk::concurrent::details::worker\_thread::run() + 30  
4 com.apple.audio.caulk 0x00007fff65124b64 void\*  
caulk::thread\_proxy<std::\_\_1::tuple<caulk::thread::attributes, void  
(caulk::concurrent::details::worker\_thread::\*)(),  
std::\_\_1::tuple<caulk::concurrent::details::worker\_thread\*> >>(void\*) + 45  
5 libsystem\_pthread.dylib 0x00007fff6919ed76 \_pthread\_start + 125  
6 libsystem\_pthread.dylib 0x00007fff6919b5d7 thread\_start + 15

Thread 5:

0 libsystem\_kernel.dylib 0x00007fff690d7182 semaphore\_wait\_trap + 10  
1 com.apple.audio.caulk 0x00007fff65125ec6 caulk::mach::semaphore::wait() + 16  
2 com.apple.audio.caulk 0x00007fff65121442  
caulk::semaphore::timed\_wait(double) + 106  
3 com.apple.audio.caulk 0x00007fff65124a14  
caulk::concurrent::details::worker\_thread::run() + 30  
4 com.apple.audio.caulk 0x00007fff65124b64 void\*  
caulk::thread\_proxy<std::\_\_1::tuple<caulk::thread::attributes, void  
(caulk::concurrent::details::worker\_thread::\*)(),  
std::\_\_1::tuple<caulk::concurrent::details::worker\_thread\*> >>(void\*) + 45  
5 libsystem\_pthread.dylib 0x00007fff6919ed76 \_pthread\_start + 125  
6 libsystem\_pthread.dylib 0x00007fff6919b5d7 thread\_start + 15

Thread 6:

0 libsystem\_kernel.dylib 0x00007fff690d719a semaphore\_timedwait\_trap + 10

```
1 libdispatch.dylib      0x00007fff68f3e9eb _dispatch_sema4_timedwait + 76
2 libdispatch.dylib      0x00007fff68f3ee12 _dispatch_semaphore_wait_slow + 58
3 libdispatch.dylib      0x00007fff68f4c645 _dispatch_worker_thread + 318
4 libsystem_pthread.dylib 0x00007fff6919ed76 _pthread_start + 125
5 libsystem_pthread.dylib 0x00007fff6919b5d7 thread_start + 15
```

Thread 7:

```
0 libsystem_pthread.dylib 0x00007fff6919b5b4 start_wqthread + 0
```

Thread 1 crashed with X86 Thread State (64-bit):

```
rax: 0x0000000000000000 rbx: 0x00007000029f6000 rcx: 0x00007000029f5828 rdx:
0x0000000000000000
rdi: 0x00000000000003b03 rsi: 0x0000000000000006 rbp: 0x00007000029f5850 rsp:
0x00007000029f5828
r8: 0x00000000105cfb000 r9: 0x0000000000000000 r10: 0x0000000000000000 r11:
0x00000000000000246
r12: 0x00000000000003b03 r13: 0x0000000000000000 r14: 0x0000000000000006 r15:
0x0000000000000016
rip: 0x00007fff690dd47a rfi: 0x00000000000000246 cr2: 0x00000000105cacd14
```

Logical CPU: 0

Error Code: 0x02000148

Trap Number: 133

Binary Images:

```
0x1055b1000 - 0x1056a1fff com.apple.loginwindow (9.0 - 1984)
<DD604DBC-038C-3865-9297-C35439D7AD1B> /System/Library/CoreServices/
loginwindow.app/Contents/MacOS/loginwindow
0x1056ec000 - 0x1056ecfff com.apple.CoreDisplay (101.3 - 108.11) <128CD253-
F25A-3B40-A197-342C6447C59E> /System/Library/Frameworks/CoreDisplay.framework/
Versions/A/CoreDisplay
0x1056fc000 - 0x105706ff7 com.apple.DisplayServicesFW (3.1 - 380)
```

<A1B8B6C2-5782-3D5C-B54E-48E96BB807DA> /System/Library/PrivateFrameworks/  
DisplayServices.framework/Versions/A/DisplayServices

0x105719000 - 0x10571affb com.apple.SkyLight (1.600.0 - 0)  
<8B7FB0FC-853E-354D-966B-6C13E1075C7F> /System/Library/PrivateFrameworks/  
SkyLight.framework/Versions/A/SkyLight

0x105725000 - 0x1059d4fff SkyLightOriginal (340.54) <90EB1C2E-B264-3EC4-  
AF7F-CDE7E7585746> /System/Library/PrivateFrameworks/SkyLight.framework/Versions/  
A/SkyLightOriginal

0x105ac4000 - 0x105babff7 CoreDisplayOriginal (108.11.1)  
<EED23133-73D8-3823-80D8-73912F4066FF> /System/Library/Frameworks/  
CoreDisplay.framework/Versions/A/CoreDisplayOriginal

0x105be4000 - 0x105be9fff libCoreFSCache.dylib (176.7) <35163B64-B9F9-3371-  
B810-CB5C4BE91995> /System/Library/Frameworks/OpenGL.framework/Versions/A/  
Libraries/libCoreFSCache.dylib

0x105bf6000 - 0x105c05ff3 com.apple.opengl (17.3.1 - 17.3.1)  
<78BDC7C4-87AD-33CA-BFAC-A9CC5F605B5D> /System/Library/Frameworks/  
OpenGL.framework/Versions/A/OpenGL

0x105c15000 - 0x105c1dffb libGFXShared.dylib (17.3.1) <902F535E-E411-3C3B-  
B980-0A7DB40EA5B7> /System/Library/Frameworks/OpenGL.framework/Versions/A/  
Libraries/libGFXShared.dylib

0x105c25000 - 0x105c62fff libGLU.dylib (17.3.1) <C46D4335-4CE2-3FFB-930D-  
E48D7A3B5B4F> /System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/  
libGLU.dylib

0x105c79000 - 0x105c84fff libGL.dylib (17.3.1) <87F8CCDB-2D7D-3B01-  
AA6F-6C7A4B1CA11E> /System/Library/Frameworks/OpenGL.framework/Versions/A/  
Libraries/libGL.dylib

0x105c99000 - 0x105cd3fef libGLImage.dylib (17.3.1) <B5464F1A-  
B936-3BEE-97CF-3806AD1A9E68> /System/Library/Frameworks/OpenGL.framework/  
Versions/A/Libraries/libGLImage.dylib

0x105cdd000 - 0x105cdffff libCVMSPPluginSupport.dylib (17.3.1) <4D6061EC-  
CFCD-3C0E-90E4-51644DC5F76A> /System/Library/Frameworks/OpenGL.framework/  
Versions/A/Libraries/libCVMSPPluginSupport.dylib

0x105ceb000 - 0x105ceffff libCoreVMClient.dylib (163.20) <B9A89373-  
BD CD-3003-9A82-6D73B930A122> /System/Library/Frameworks/OpenGL.framework/  
Versions/A/Libraries/libCoreVMClient.dylib

0x105d97000 - 0x105da4fff com.apple.DisplayServices (3.1 - 380) <F43F0BCC-  
FEF9-3852-B19F-B3B23096116B> /System/Library/LoginPlugins/  
DisplayServices.loginPlugin/Contents/MacOS/DisplayServices

0x105db6000 - 0x105dbcff3 com.apple.DFSLoginPlugin (4.0 - 4.0)  
<9102DE53-8E42-313F-86AC-C4F2B2672BAF> /System/Library/LoginPlugins/  
FSDisconnect.loginPlugin/Contents/MacOS/FSDisconnect

0x108a37000 - 0x108a62fff com.apple.BezelServices (336 - 336)  
<AD139D30-439D-3B30-B258-0DB8139D00B0> /System/Library/LoginPlugins/  
BezelServices.loginPlugin/Contents/MacOS/BezelServices

0x108a7f000 - 0x108af0fff com.apple.corebrightness (1.0 - 1)  
<222DEADF-6CC5-35A9-87A0-89F25B6D5FB9> /System/Library/PrivateFrameworks/  
CoreBrightness.framework/Versions/A/CoreBrightness

0x108b9c000 - 0x108ba0ffb com.apple.audio.AppleHDAHALPlugIn (281.52 -  
281.52) <23C7DDE6-A44B-3BE4-B47C-EB3045B267D9> /System/Library/Extensions/  
AppleHDA.kext/Contents/PlugIns/AppLeHDAHALPlugIn.bundle/Contents/MacOS/  
AppleHDAHALPlugIn

0x108ba6000 - 0x108ba9047 libobjc-trampolines.dylib (779.1)  
<3F6CF837-42D1-34B5-B35A-0D53EAFDEE77> /usr/lib/libobjc-trampolines.dylib

0x109631000 - 0x1096bf93f dyld (732.8) <42C11B81-6928-369F-B03E-  
D57355572700> /usr/lib/dyld

0x7fff251f8000 - 0x7fff25447ff8 com.apple.RawCamera.bundle (9.00.1 - 1300.22)  
<E2716664-FDD1-3E73-A8AE-177B779C1366> /System/Library/CoreServices/  
RawCamera.bundle/Contents/MacOS/RawCamera

0x7fff2d625000 - 0x7fff2d81cff2 com.apple.avfoundation (2.0 - 1722.27.4.5)  
<EC398B56-6AFF-3B51-837C-E2F9999097EA> /System/Library/Frameworks/  
AVFoundation.framework/Versions/A/AVFoundation

0x7fff2d81d000 - 0x7fff2d8e8ff8 com.apple.audio.AVFAudio (1.0 - ???)  
<2ED23D7A-9635-3D52-BEFE-3044062B023A> /System/Library/Frameworks/  
AVFoundation.framework/Versions/A/Frameworks/AVFAudio.framework/Versions/A/  
AVFAudio

0x7fff2da08000 - 0x7fff2da08fff com.apple.Accelerate (1.11 - Accelerate 1.11)  
<71987428-FB54-3F6E-8699-DCC8BADC7D01> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Accelerate

0x7fff2da09000 - 0x7fff2da1ffff libCGInterfaces.dylib (524.2)  
<D539EFFB-6E63-3627-A6FD-D959E8CC094A> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vImage.framework/Versions/A/Libraries/  
libCGInterfaces.dylib

0x7fff2da20000 - 0x7fff2e2c7ff7 com.apple.vImage (8.1 - 524.2) <2224ED51-  
A4D6-39DB-AF19-2BCBC77BD750> /System/Library/Frameworks/Accelerate.framework/  
Versions/A/Frameworks/vImage.framework/Versions/A/vImage

0x7fff2e2c8000 - 0x7fff2e461fef libBLAS.dylib (1303) <05E4B3E9-88FC-3648-B993-  
D7E9C16ED92E> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libBLAS.dylib

0x7fff2e462000 - 0x7fff2e668fdf libBNNS.dylib (144.11.2) <CE00F56A-4630-3C5D-  
BBB8-C617A467BCAF> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libBNNS.dylib

0x7fff2e66a000 - 0x7fff2ea1efff libLAPACK.dylib (1303) <7E61073B-DB96-3AE8-

B188-5FBB20479A8C> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libLAPACK.dylib

0x7fff2ea1f000 - 0x7fff2ea34ff8 libLinearAlgebra.dylib (1303)  
<98D92C47-3841-3C0B-91ED-5D81B6300616> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/  
libLinearAlgebra.dylib

0x7fff2ea35000 - 0x7fff2ea3aff3 libQuadrature.dylib (7) <826897ED-B7AD-33DC-  
B9CB-F9787784F312> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libQuadrature.dylib

0x7fff2ea3b000 - 0x7fff2eaabfff libSparse.dylib (103)  
<55467C29-2096-36AB-8A6D-5231A342809D> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/  
libSparse.dylib

0x7fff2eaac000 - 0x7fff2eabeff7 libSparseBLAS.dylib (1303) <841780B7-CE4F-3840-  
B740-D39AD6325BDD> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libSparseBLAS.dylib

0x7fff2eabf000 - 0x7fff2ec51fc7 libvDSP.dylib (735) <1D607D95-D349-39C4-B97A-  
EFD73AC176A2> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libvDSP.dylib

0x7fff2ec52000 - 0x7fff2edccff7 libvMisc.dylib (735)  
<CB8D49B6-7E89-37FC-947A-244B99DE8FC2> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/libvMisc.dylib

0x7fff2edcd000 - 0x7fff2edcdfff com.apple.Accelerate.vecLib (3.11 - vecLib 3.11)  
<4E0286A3-D4ED-3A93-A760-77533501A59C> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/vecLib

0x7fff2edce000 - 0x7fff2ee2cffc com.apple.Accounts (113 - 113)  
<33BCDB9E-2E27-3D12-B895-826145D156BC> /System/Library/Frameworks/  
Accounts.framework/Versions/A/Accounts

0x7fff2ef72000 - 0x7fff2fd1eff9 com.apple.AppKit (6.9 - 1894) <1F4FBEF8-  
F3AC-31C2-BF04-381BC72E36D1> /System/Library/Frameworks/AppKit.framework/  
Versions/C/AppKit

0x7fff2fd6e000 - 0x7fff2fd6efff com.apple.ApplicationServices (48 - 50) <E6AA41A2-  
C79F-3304-9A61-5500561D876D> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/ApplicationServices

0x7fff2fd6f000 - 0x7fff2fddafff com.apple.ApplicationServices.ATS (377 - 493)  
<0EB214FD-E4D6-3045-A0A6-DCBCAE5F4165> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/ATS.framework/Versions/A/ATS

0x7fff2fe73000 - 0x7fff2feb1ffa libFontRegistry.dylib (274) <1A3CE39E-14E7-338E-  
B1E5-7FA79B9B0065> /System/Library/Frameworks/ApplicationServices.framework/  
Versions/A/Frameworks/ATS.framework/Versions/A/Resources/libFontRegistry.dylib

0x7fff2ff0c000 - 0x7fff2ff3bff7 com.apple.ATSUI (1.0 - 1)



<9391C527-15CE-3108-8922-CF0C2A50C082> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/ATSUI.framework/Versions/A/  
ATSUI

0x7fff2ff3c000 - 0x7fff2ff40ff3 com.apple.ColorSyncLegacy (4.13.0 - 1)  
<EBA4F56C-3C82-3788-A168-3E77E116724B> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/ColorSyncLegacy.framework/  
Versions/A/ColorSyncLegacy

0x7fff2ffdb000 - 0x7fff30031ffa com.apple.HIServices (1.22 - 672)  
<C07B87F9-1D7B-3EC9-AC11-E97003ACDCD2> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/HIServices.framework/Versions/A/  
HIServices

0x7fff30032000 - 0x7fff30040fff com.apple.LangAnalysis (1.7.0 - 1.7.0) <C808B42C-  
C139-34C1-997F-032992D89762> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/LangAnalysis.framework/Versions/  
A/LangAnalysis

0x7fff30041000 - 0x7fff30086ff2 com.apple.print.framework.PrintCore (15 - 516)  
<43213BE5-C5E1-3AA8-8AFD-949AFF9FB2C5> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/PrintCore.framework/Versions/A/  
PrintCore

0x7fff30087000 - 0x7fff30091fff com.apple.QD (4.0 - 413)  
<EFC01D3C-9012-3FCF-9149-457F530A43F0> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/QD.framework/Versions/A/QD

0x7fff30092000 - 0x7fff3009fff0 com.apple.speech.synthesis.framework (9.0.22 -  
9.0.22) <CEA12143-A5DB-369B-B623-601CB9C9973B> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/SpeechSynthesis.framework/  
Versions/A/SpeechSynthesis

0x7fff300a0000 - 0x7fff30180ffa com.apple.audio.toolbox.AudioToolbox (1.14 - 1.14)  
<83A9998E-0669-326F-BA80-350FC70912E6> /System/Library/Frameworks/  
AudioToolbox.framework/Versions/A/AudioToolbox

0x7fff30182000 - 0x7fff30182fff com.apple.audio.units.AudioUnit (1.14 - 1.14)  
<AF1C9FB7-8A3C-367A-B9AB-8BF267DF79A7> /System/Library/Frameworks/  
AudioUnit.framework/Versions/A/AudioUnit

0x7fff304f8000 - 0x7fff3086effe com.apple.CFNetwork (1111 - 1111)  
<642753C5-5D26-3794-9A4C-4F63F226C01A> /System/Library/Frameworks/  
CFNetwork.framework/Versions/A/CFNetwork

0x7fff308e4000 - 0x7fff308e4fff com.apple.Carbon (160 - 162)  
<098C0BD4-184D-3DAD-9915-89A5F172354F> /System/Library/Frameworks/  
Carbon.framework/Versions/A/Carbon

0x7fff308e5000 - 0x7fff308e8ffb com.apple.CommonPanels (1.2.6 - 101) <930A9DD4-  
B4BF-3D73-8B81-2D46018BB2E4> /System/Library/Frameworks/Carbon.framework/  
Versions/A/Frameworks/CommonPanels.framework/Versions/A/CommonPanels

0x7fff308e9000 - 0x7fff30bddff9 com.apple.HIToolbox (2.1.1 - 992.1)

<0EA6CBC4-33C5-3BA7-B37A-1C9D5F103796> /System/Library/Frameworks/  
Carbon.framework/Versions/A/Frameworks/HIToolbox.framework/Versions/A/HIToolbox

0x7fff30bde000 - 0x7fff30be1ff3 com.apple.help (1.3.8 - 68)  
<CA52ABA0-636A-39AA-98C0-A1B901A5F4F4> /System/Library/Frameworks/  
Carbon.framework/Versions/A/Frameworks/Help.framework/Versions/A/Help

0x7fff30be2000 - 0x7fff30be7ff7 com.apple.ImageCapture (9.0 - 1600.1.4.3)  
<87D0FDEE-8876-3E61-B349-EEB4160EBC19> /System/Library/Frameworks/  
Carbon.framework/Versions/A/Frameworks/ImageCapture.framework/Versions/A/  
ImageCapture

0x7fff30be8000 - 0x7fff30be8fff com.apple.ink.framework (10.15 - 227) <BA11FA6C-  
AEAA-3688-8812-9CA16EA11D03> /System/Library/Frameworks/Carbon.framework/  
Versions/A/Frameworks/Ink.framework/Versions/A/Ink

0x7fff30be9000 - 0x7fff30c03ff2 com.apple.openscripting (1.7 - 185) <40F68E23-  
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Versions/A/Frameworks/OpenScripting.framework/Versions/A/OpenScripting

0x7fff30c24000 - 0x7fff30c24fff com.apple.print.framework.Print (15 - 271)  
<CB0E6F07-19E3-3207-9B7B-267F04DF6F73> /System/Library/Frameworks/  
Carbon.framework/Versions/A/Frameworks/Print.framework/Versions/A/Print

0x7fff30c25000 - 0x7fff30c27ff7 com.apple.securityhi (9.0 - 55008)  
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Carbon.framework/Versions/A/Frameworks/SecurityHI.framework/Versions/A/SecurityHI

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6.0.3) <819268CF-2A9D-3321-A826-535CB1F1E694> /System/Library/Frameworks/  
Carbon.framework/Versions/A/Frameworks/SpeechRecognition.framework/Versions/A/  
SpeechRecognition

0x7fff30dc8000 - 0x7fff30dc8fff com.apple.Cocoa (6.11 - 23) <257CF015-7450-3FD1-  
AC41-AB55139F3036> /System/Library/Frameworks/Cocoa.framework/Versions/A/Cocoa

0x7fff30dd6000 - 0x7fff30fc1ff7 com.apple.ColorSync (4.13.0 - 3394.1.4.1)  
<32A1AEE9-C3AA-3535-9C72-D89955D2DE85> /System/Library/Frameworks/  
ColorSync.framework/Versions/A/ColorSync

0x7fff312ad000 - 0x7fff317bcffa com.apple.audio.CoreAudio (5.0 - 5.0)  
<88827CE9-4055-3E5F-B7C1-4E9314E6D05C> /System/Library/Frameworks/  
CoreAudio.framework/Versions/A/CoreAudio

0x7fff3180f000 - 0x7fff31846ff2 com.apple.CoreBluetooth (1.0 - 1)  
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CoreBluetooth.framework/Versions/A/CoreBluetooth

0x7fff31847000 - 0x7fff31c31ff8 com.apple.CoreData (120 - 969.3)  
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CoreData.framework/Versions/A/CoreData

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0x7fff321be000 - 0x7fff3285bff8 com.apple.CoreGraphics (2.0 - 1348.4.4.7)  
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CoreGraphics.framework/Versions/A/CoreGraphics

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CoreMedia.framework/Versions/A/CoreMedia

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CoreMediaIO.framework/Versions/A/CoreMediaIO

0x7fff33148000 - 0x7fff33148fff com.apple.CoreServices (1069.2 - 1069.2)  
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CoreServices.framework/Versions/A/CoreServices

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CoreServices.framework/Versions/A/Frameworks/AE.framework/Versions/A/AE

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CoreServices.framework/Versions/A/Frameworks/CarbonCore.framework/Versions/A/  
CarbonCore

0x7fff334b1000 - 0x7fff334feff1 com.apple.DictionaryServices (1.2 - 321)  
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CoreServices.framework/Versions/A/Frameworks/DictionaryServices.framework/Versions/A/  
DictionaryServices

0x7fff334ff000 - 0x7fff33507ff7 com.apple.CoreServices.FSEvents (1268.0.6 -  
1268.0.6) <78D2AB1A-9053-3D32-8C18-C1DD31FF9400> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/Frameworks/FSEvents.framework/Versions/A/FSEvents

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CoreServices.framework/Versions/A/Frameworks/LaunchServices.framework/Versions/A/  
LaunchServices

0x7fff33741000 - 0x7fff337d9ff1 com.apple.Metadata (10.7.0 - 2066.12)  
<249EA615-8446-3A36-B6B7-ED613C8B8148> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/Frameworks/Metadata.framework/Versions/A/Metadata

0x7fff337da000 - 0x7fff33807ff7 com.apple.CoreServices.OSServices (1069.2 -  
1069.2) <2FECF3BA-B785-35E2-85E9-2A2267801AA4> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/Frameworks/OSServices.framework/Versions/A/  
OSServices

0x7fff33808000 - 0x7fff3386ffff com.apple.SearchKit (1.4.1 - 1.4.1) <0068BD72-CF2B-34E4-B461-002D5E56C31C> /System/Library/Frameworks/CoreServices.framework/Versions/A/Frameworks/SearchKit.framework/Versions/A/SearchKit

0x7fff33870000 - 0x7fff33894ffd com.apple.coreservices.SharedFileList (131 - 131) <61F62948-4109-38F0-BB91-5EBB6BEEAB10> /System/Library/Frameworks/CoreServices.framework/Versions/A/Frameworks/SharedFileList.framework/Versions/A/SharedFileList

0x7fff33bbc000 - 0x7fff33d70ffe com.apple.CoreText (643.1.0.2 - 643.1.0.2) <83B0B75B-7B4A-315D-BC8B-8CB2E5D16EB8> /System/Library/Frameworks/CoreText.framework/Versions/A/CoreText

0x7fff33d71000 - 0x7fff33db5fff com.apple.CoreVideo (1.8 - 334.0) <54CC4AD8-7F5C-37D5-A26D-9C8C8A72BD41> /System/Library/Frameworks/CoreVideo.framework/Versions/A/CoreVideo

0x7fff33db6000 - 0x7fff33e43ff1 com.apple.framework.CoreWLAN (13.0 - 1448) <ACDBCA1F-3B08-3FC7-94CC-0EBC442AD0C9> /System/Library/Frameworks/CoreWLAN.framework/Versions/A/CoreWLAN

0x7fff3400d000 - 0x7fff34018ff7 com.apple.DirectoryService.Framework (10.15 - 220.11.1) <21C0480F-86B1-39F7-8C16-CEC502358348> /System/Library/Frameworks/DirectoryService.framework/Versions/A/DirectoryService

0x7fff34019000 - 0x7fff340c4ff0 com.apple.DiscRecording (9.0.3 - 9030.4.5) <12A61FC4-2804-3675-A048-E0B176EF52E3> /System/Library/Frameworks/DiscRecording.framework/Versions/A/DiscRecording

0x7fff340e9000 - 0x7fff340efff7 com.apple.DiskArbitration (2.7 - 2.7) <23104F29-F120-354B-97BE-4514A675BB14> /System/Library/Frameworks/DiskArbitration.framework/Versions/A/DiskArbitration

0x7fff342e2000 - 0x7fff34404fff com.apple.FileProvider (253 - 253) <A87AADFF-4F14-3AD8-826B-98652EAC99AD> /System/Library/Frameworks/FileProvider.framework/Versions/A/FileProvider

0x7fff3441c000 - 0x7fff347e3ff3 com.apple.Foundation (6.9 - 1671.15) <4BEAB72D-10AA-3009-B0F5-B82B4FE1C441> /System/Library/Frameworks/Foundation.framework/Versions/C/Foundation

0x7fff34850000 - 0x7fff3487fff3 com.apple.GSS (4.0 - 2.0) <9520F096-C643-36D7-B8CB-3922B6E6D7EC> /System/Library/Frameworks/GSS.framework/Versions/A/GSS

0x7fff349b9000 - 0x7fff34ad1ffd com.apple.Bluetooth (7.0.0 - 7.0.0f8) <A80D68E6-051D-3C23-BF71-74F61CF98DD5> /System/Library/Frameworks/IOBluetooth.framework/Versions/A/IOBluetooth

0x7fff34b35000 - 0x7fff34bd8ffb com.apple.framework.IOKit (2.0.2 - 1726.11.1) <9E81E92C-7EC2-330F-B0AF-BBFD9D3E46F6> /System/Library/Frameworks/IOKit.framework/Versions/A/IOKit

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IOSurface.framework/Versions/A/IOSurface

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ImageIO.framework/Versions/A/ImageIO

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Resources/libJPEG.dylib

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ImageIO.framework/Versions/A/Resources/libTIFF.dylib

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Versions/A/Kerberos

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Libraries/libHeimdalProxy.dylib

0x7fff365b0000 - 0x7fff365e6fff com.apple.LDAPFramework (2.4.28 - 194.5)  
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MediaAccessibility.framework/Versions/A/MediaAccessibility

0x7fff36a13000 - 0x7fff37153fff com.apple.MediaToolbox (1.0 - 2501.27.4.9)  
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MediaToolbox.framework/Versions/A/MediaToolbox

0x7fff37155000 - 0x7fff37217ff1 com.apple.Metal (211.53 - 211.53)  
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Metal.framework/Versions/A/Metal

0x7fff37234000 - 0x7fff37270ff3 com.apple.MetalPerformanceShaders.MPSCore (1.0 - 1) <54EC6486-7A3E-39D3-B213-EFCC4110E511> /System/Library/Frameworks/MetalPerformanceShaders.framework/Frameworks/MPSCore.framework/Versions/A/MPSCore

0x7fff37271000 - 0x7fff372f7fe6 com.apple.MetalPerformanceShaders.MPSImage (1.0 - 1) <144A9994-9AD3-340D-A890-C7F10DDEF489> /System/Library/Frameworks/MetalPerformanceShaders.framework/Frameworks/MPSImage.framework/Versions/A/MPSImage

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0x7fff3731e000 - 0x7fff37333ffc com.apple.MetalPerformanceShaders.MPSNDArray (1.0 - 1) <73DBE1D5-89C4-3410-95DA-A384BF9C2C1E> /System/Library/Frameworks/MetalPerformanceShaders.framework/Frameworks/MPSNDArray.framework/Versions/A/MPSNDArray

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com.apple.MetalPerformanceShaders.MetalPerformanceShaders (1.0 - 1)  
<5EA47648-76E9-37CD-A2FC-A0083A769665> /System/Library/Frameworks/MetalPerformanceShaders.framework/Versions/A/MetalPerformanceShaders

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0x7fff38437000 - 0x7fff3857aff6 com.apple.Network (1.0 - 1)  
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0x7fff3afa1000 - 0x7fff3aff9ff7 com.apple.opencl (3.5 - 3.5) <1874ACB3-DBF4-309A-A15D-ADB0C786C5B8> /System/Library/Frameworks/OpenCL.framework/Versions/A/OpenCL

0x7fff3affa000 - 0x7fff3b016fff com.apple.CFOpenDirectory (10.15 - 220.11.1)  
<6F4D018B-FA8B-35B2-8120-F8215DDA01CB> /System/Library/Frameworks/OpenDirectory.framework/Versions/A/Frameworks/CFOpenDirectory.framework/Versions/A/CFOpenDirectory

0x7fff3b017000 - 0x7fff3b022fff com.apple.OpenDirectory (10.15 - 220.11.1)  
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OpenDirectory.framework/Versions/A/OpenDirectory

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QuartzCore.framework/Versions/A/QuartzCore

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QuickLookThumbnailing.framework/Versions/A/QuickLookThumbnailing

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Security.framework/Versions/A/Security

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SecurityFoundation.framework/Versions/A/SecurityFoundation

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SecurityInterface.framework/Versions/A/SecurityInterface

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ServiceManagement.framework/Versions/A/ServiceManagement

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SystemConfiguration.framework/Versions/A/SystemConfiguration

0x7fff3f89e000 - 0x7fff3fbf8ff9 com.apple.VideoToolbox (1.0 - 2501.27.4.9)  
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VideoToolbox.framework/Versions/A/VideoToolbox

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AOSKit.framework/Versions/A/AOSKit

0x7fff43264000 - 0x7fff43264ffb com.apple.AOSMigrate (1.0 - 1)  
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AOSMigrate.framework/Versions/A/AOSMigrate

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APFS.framework/Versions/A/APFS

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AggregateDictionary.framework/Versions/A/AggregateDictionary

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AppContainer.framework/Versions/A/AppContainer

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AppSandbox.framework/Versions/A/AppSandbox

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Apple80211.framework/Versions/A/Apple80211

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0x7fff44f96000 - 0x7fff44fdefff com.apple.AppleJPEG (1.0 - 1)  
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AppleJPEG.framework/Versions/A/AppleJPEG

0x7fff4538c000 - 0x7fff453b1ff3 com.apple.aps.framework (4.0 - 4.0)  
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ApplePushService.framework/Versions/A/ApplePushService

0x7fff453b2000 - 0x7fff453b6ff7 com.apple.AppleSRP (5.0 - 1)  
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AppleSRP.framework/Versions/A/AppleSRP

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AppleSauce.framework/Versions/A/AppleSauce

0x7fff45499000 - 0x7fff4549cfff com.apple.AppleSystemInfo (3.1.5 - 3.1.5)  
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AppleSystemInfo.framework/Versions/A/AppleSystemInfo

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AppleVA.framework/Versions/A/AppleVA

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AssertionServices.framework/Versions/A/AssertionServices

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AudioResourceArbitration.framework/Versions/A/AudioResourceArbitration

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AudioToolboxCore.framework/Versions/A/AudioToolboxCore



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AuthKit.framework/Versions/A/AuthKit

0x7fff465d6000 - 0x7fff465dfff3 com.apple.coreservices.BackgroundTaskManagement  
(1.0 - 104) <156CFAE3-07D0-332C-90BE-BB2E4C893C99> /System/Library/  
PrivateFrameworks/BackgroundTaskManagement.framework/Versions/A/  
BackgroundTaskManagement

0x7fff465e0000 - 0x7fff46681ff8 com.apple.backup.framework (1.11 - 1298.0.12)  
<5F4E8950-52AA-3B1F-B17C-69FBA940CD76> /System/Library/PrivateFrameworks/  
Backup.framework/Versions/A/Backup

0x7fff46682000 - 0x7fff46701fff com.apple.BaseBoard (460 - 460)  
<E2B2C09D-7CA3-3BCF-AE84-E636CBC139CB> /System/Library/PrivateFrameworks/  
BaseBoard.framework/Versions/A/BaseBoard

0x7fff46720000 - 0x7fff46726ffe com.apple.BezelServicesFW (336 - 336)  
<37138123-99F5-3874-B0FF-486465325C48> /System/Library/PrivateFrameworks/  
BezelServices.framework/Versions/A/BezelServices

0x7fff46801000 - 0x7fff4683dff7 com.apple.bom (14.0 - 219.1)  
<86A0EE62-9906-3085-B9B7-93C196526360> /System/Library/PrivateFrameworks/  
Bom.framework/Versions/A/Bom

0x7fff46a84000 - 0x7fff46aacff9 com.apple.CacheDelete (1.0 - 1)  
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CacheDelete.framework/Versions/A/CacheDelete

0x7fff472c2000 - 0x7fff472ccffe com.apple.CaptiveNetworkSupport (13.0 - 1)  
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CaptiveNetwork.framework/Versions/A/CaptiveNetwork

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ChunkingLibrary.framework/Versions/A/ChunkingLibrary

0x7fff47f4e000 - 0x7fff47f68ff0 com.apple.CloudServices (1.0 - 384.0.4)  
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CloudServices.framework/Versions/A/CloudServices

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CommerceKit.framework/Versions/A/Frameworks/CommerceCore.framework/Versions/A/  
CommerceCore

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CommonAuth.framework/Versions/A/CommonAuth

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CommonUtilities.framework/Versions/A/CommonUtilities

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0x7fff48991000 - 0x7fff48d66fc8 com.apple.CoreAUC (283.0.0 - 283.0.0) <5ED07886-3152-3C8D-9C21-3600A33ACC40> /System/Library/PrivateFrameworks/CoreAUC.framework/Versions/A/CoreAUC

0x7fff48d67000 - 0x7fff48d95ffb com.apple.CoreAVCHD (6.1.0 - 6100.4.1) <B7C10F1C-B3DE-3F2C-B2B8-1CD37DA7298F> /System/Library/PrivateFrameworks/CoreAVCHD.framework/Versions/A/CoreAVCHD

0x7fff48db7000 - 0x7fff48dd6ff4 com.apple.analyticsd (1.0 - 1) <3C14ACAE-0E19-3589-8229-944F376C3E44> /System/Library/PrivateFrameworks/CoreAnalytics.framework/Versions/A/CoreAnalytics

0x7fff4909e000 - 0x7fff490a9ff7 com.apple.frameworks.CoreDaemon (1.3 - 1.3) <76AC1239-46B1-387E-B053-ED56BDF55DE7> /System/Library/PrivateFrameworks/CoreDaemon.framework/Versions/B/CoreDaemon

0x7fff49320000 - 0x7fff49330ff3 com.apple.CoreEmoji (1.0 - 100) <9AB89183-635C-3859-9DC6-7BCE3A94D15E> /System/Library/PrivateFrameworks/CoreEmoji.framework/Versions/A/CoreEmoji

0x7fff4997c000 - 0x7fff499e6ff8 com.apple.CoreNLP (1.0 - 211) <8F08AEF6-A380-3811-BAF0-D80E7C84B5AD> /System/Library/PrivateFrameworks/CoreNLP.framework/Versions/A/CoreNLP

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0x7fff4a59e000 - 0x7fff4a5c1fff com.apple.CoreSVG (1.0 - 129) <1716AD1F-A94F-309D-9598-C7B65F5965A0> /System/Library/PrivateFrameworks/CoreSVG.framework/Versions/A/CoreSVG

0x7fff4a5c2000 - 0x7fff4a5f5fff com.apple.CoreServicesInternal (446.4 - 446.4) <516D3C82-1CC5-3056-B56F-A8FD2FE662EC> /System/Library/PrivateFrameworks/CoreServicesInternal.framework/Versions/A/CoreServicesInternal

0x7fff4a5f6000 - 0x7fff4a624ff7 com.apple.CSSStore (1069.2 - 1069.2) <5E3C50AB-9C00-36F3-A986-CE033480CA8B> /System/Library/PrivateFrameworks/CoreServicesStore.framework/Versions/A/CoreServicesStore

0x7fff4ab1f000 - 0x7fff4aba6fff com.apple.CoreSymbolication (11.0 - 64509.98.1) <38F1073A-4F61-3E6C-B207-9D7986BBF28E> /System/Library/PrivateFrameworks/CoreSymbolication.framework/Versions/A/CoreSymbolication

0x7fff4ac3e000 - 0x7fff4ad6aff4 com.apple.coreui (2.1 - 606) <08A21870-C3C2-3442-A579-F12EC67D7449> /System/Library/PrivateFrameworks/CoreUI.framework/Versions/A/CoreUI

0x7fff4ad6b000 - 0x7fff4af09ffd com.apple.CoreUtils (6.0 - 600.30) <5D8E96F2-5EDB-33E3-92E9-EDC11F279A64> /System/Library/PrivateFrameworks/

CoreUtils.framework/Versions/A/CoreUtils

0x7fff4af0e000 - 0x7fff4af56ff1 com.apple.framework.corewlankit (13.0 - 1448)  
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CoreWLANKit.framework/Versions/A/CoreWLANKit

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CrashReporterSupport.framework/Versions/A/CrashReporterSupport

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DFRFoundation.framework/Versions/A/DFRFoundation

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DSEExternalDisplay.framework/Versions/A/DSEExternalDisplay

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DataDetectorsCore.framework/Versions/A/DataDetectorsCore

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DebugSymbols.framework/Versions/A/DebugSymbols

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DesktopServicesPriv.framework/Versions/A/DesktopServicesPriv

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559.11.1) <D2EE96DF-006F-3FAF-A02D-A2F27E49DCDA> /System/Library/  
PrivateFrameworks/DiskImages.framework/Versions/A/DiskImages

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DiskManagement.framework/Versions/A/DiskManagement

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EAP8021X.framework/Versions/A/EAP8021X

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EFILogin.framework/Versions/A/EFILogin

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<8D8AFFFC-E92B-37CE-8D93-79119522E2E5> /System/Library/PrivateFrameworks/  
EmbeddedOSInstall.framework/Versions/A/EmbeddedOSInstall

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EmbeddedOSSupportHost.framework/Versions/A/EmbeddedOSSupportHost

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FMCoreLite.framework/Versions/A/FMCoreLite

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FaceCore.framework/Versions/A/FaceCore

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FamilyControls.framework/Versions/A/FamilyControls

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FindMyDevice.framework/Versions/A/FindMyDevice

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FindMyMac.framework/Versions/A/FindMyMac

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libFontParser.dylib

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[CURRENT\_PROJECT\_VERSION]) <BC77CDFE-7137-3700-81AB-ED812743F5D8> /  
System/Library/PrivateFrameworks/FontServices.framework/libhvf.dylib

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GPUInfo.framework/Versions/A/GPUInfo

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GPUWrangler.framework/Versions/A/GPUWrangler

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GenerationalStorage.framework/Versions/A/GenerationalStorage

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GraphVisualizer.framework/Versions/A/GraphVisualizer

0x7fff539a5000 - 0x7fff539b2ff9 com.apple.HID (1.0 - 1) <F40CDD10-5EE2-35D0-  
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HID

0x7fff53ad3000 - 0x7fff53b46ffc com.apple.Heimdal (4.0 - 2.0) <169702C2-  
B210-3258-947C-F8EE6B361C26> /System/Library/PrivateFrameworks/  
Heimdal.framework/Versions/A/Heimdal

0x7fff55223000 - 0x7fff55264ff6 com.apple.IASUtilities (1.0 - 542.2) <DF9140B7-  
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IASUtilities.framework/Versions/A/IASUtilities

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IOAccelerator.framework/Versions/A/IOAccelerator

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IOPresentment.framework/Versions/A/IOPresentment

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IconServices.framework/Versions/A/IconServices

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InstallerDiagnostics.framework/Versions/A/InstallerDiagnostics

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InternationalSupport.framework/Versions/A/InternationalSupport

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PrivateFrameworks/KeychainCircle.framework/Versions/A/KeychainCircle

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LanguageModeling.framework/Versions/A/LanguageModeling

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<BEADF30C-37D3-3112-90DA-18A85406DBF3> /System/Library/PrivateFrameworks/  
Lexicon.framework/Versions/A/Lexicon

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LinguisticData.framework/Versions/A/LinguisticData

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A797-33F7-B919-37CF77E2AA4D> /System/Library/PrivateFrameworks/  
LoginUIKit.framework/Versions/A/Frameworks/LoginUIKitCore.framework/Versions/A/  
LoginUIKitCore

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LoginUIKit.framework/Versions/A/LoginUIKit

0x7fff57041000 - 0x7fff57076ff7 com.apple.framework.ManagedClient (12.0 - 1258)  
<9E9C7C08-35C1-340A-9A13-D3660294E69D> /System/Library/PrivateFrameworks/  
ManagedClient.framework/Versions/A/ManagedClient

0x7fff57077000 - 0x7fff5707afff com.apple.Mangrove (1.0 - 25)  
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Mangrove.framework/Versions/A/Mangrove

0x7fff572d2000 - 0x7fff5735cff0 com.apple.MediaExperience (1.0 - 1) <C4372543-EBCB-33B7-A723-6540B028A9DF> /System/Library/PrivateFrameworks/MediaExperience.framework/Versions/A/MediaExperience

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0x7fff57b0e000 - 0x7fff57b5aff7 com.apple.spotlight.metadata.utilities (1.0 - 2066.12) <989018A3-4BD0-3FD1-9A2D-88FD3A521452> /System/Library/PrivateFrameworks/MetadataUtilities.framework/Versions/A/MetadataUtilities

0x7fff57b5b000 - 0x7fff57c29ff5 com.apple.gpusw.MetalTools (1.0 - 1) <5ADCCE88-B380-3B73-957B-12983017E979> /System/Library/PrivateFrameworks/MetalTools.framework/Versions/A/MetalTools

0x7fff57c83000 - 0x7fff57c9cff8 com.apple.MobileAssets (1.0 - 619.0.5) <87C931E6-4E47-3148-979B-8B2A33D0C947> /System/Library/PrivateFrameworks/MobileAsset.framework/Versions/A/MobileAsset

0x7fff57e59000 - 0x7fff57e76ffc com.apple.MobileKeyBag (2.0 - 1.0) <6B7EFE6E-5DBC-33B4-8F3E-12BC31A2EA2D> /System/Library/PrivateFrameworks/MobileKeyBag.framework/Versions/A/MobileKeyBag

0x7fff580dd000 - 0x7fff5810bff7 com.apple.MultitouchSupport.framework (3400.35 - 3400.35) <C73D6E66-5FE9-3113-96DB-AF12AAC6B77E> /System/Library/PrivateFrameworks/MultitouchSupport.framework/Versions/A/MultitouchSupport

0x7fff5857d000 - 0x7fff58587fff com.apple.NetAuth (6.2 - 6.2) <90F9ADF4-8A9C-3603-8F55-24F8C472430B> /System/Library/PrivateFrameworks/NetAuth.framework/Versions/A/NetAuth

0x7fff58588000 - 0x7fff5858dff7 com.apple.NetFSServer (2.0 - 1) <11CB944D-AF38-3EB7-854B-CE070BF6BD5B> /System/Library/PrivateFrameworks/NetFSServer.framework/Versions/A/NetFSServer

0x7fff58d4d000 - 0x7fff58d4efff com.apple.OSD (1.0 - 34) <B38E30F0-410D-3BD1-90D7-80F113142BBD> /System/Library/PrivateFrameworks/OSD.framework/Versions/A/OSD

0x7fff58f73000 - 0x7fff58fbfff7 com.apple.OTSVG (1.0 - 643.1.0.2) <315F5289-6294-3B4E-83D1-56C502F564F8> /System/Library/PrivateFrameworks/OTSVG.framework/Versions/A/OTSVG

0x7fff59aaf000 - 0x7fff59b6dff6 com.apple.PackageKit (3.0 - 976) <681C5312-F7ED-3E43-9809-2F02CFD7752A> /System/Library/PrivateFrameworks/PackageKit.framework/Versions/A/PackageKit

0x7fff5a132000 - 0x7fff5a13dffe com.apple.PerformanceAnalysis (1.243 - 243) <304B1D73-9BD4-3CED-A241-0458C4AF7062> /System/Library/PrivateFrameworks/PerformanceAnalysis.framework/Versions/A/PerformanceAnalysis

0x7fff5a13e000 - 0x7fff5a166fff com.apple.persistentconnection (1.0 - 1.0) <DBD9FD74-9F17-358B-A7E9-58B965A6E16C> /System/Library/PrivateFrameworks/

PersistentConnection.framework/Versions/A/PersistentConnection

0x7fff5bb27000 - 0x7fff5bb57ff7 com.apple.pluginkit.framework (1.0 - 1)  
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PlugInKit.framework/Versions/A/PlugInKit

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PowerlogControl.framework/Versions/A/PowerlogControl

0x7fff5c9fd000 - 0x7fff5ca57ff7 com.apple.ProtectedCloudStorage (1.0 - 1)  
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ProtectedCloudStorage.framework/Versions/A/ProtectedCloudStorage

0x7fff5ca58000 - 0x7fff5ca71fff com.apple.ProtocolBuffer (1 - 274.20.7.15.1)  
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ProtocolBuffer.framework/Versions/A/ProtocolBuffer

0x7fff5ce9f000 - 0x7fff5ceabffd com.apple.xpc.RemoteServiceDiscovery (1.0 -  
1738.11.1) <6A5D4703-DE89-36A2-BBA2-AE5ED764E8A5> /System/Library/  
PrivateFrameworks/RemoteServiceDiscovery.framework/Versions/A/  
RemoteServiceDiscovery

0x7fff5ceb000 - 0x7fff5cee8ff9 com.apple.RemoteViewServices (2.0 - 148)  
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RemoteViewServices.framework/Versions/A/RemoteViewServices

0x7fff5d04b000 - 0x7fff5d086ff7 com.apple.RunningBoardServices (1.0 - 223.11.1)  
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RunningBoardServices.framework/Versions/A/RunningBoardServices

0x7fff5e989000 - 0x7fff5e98cff9 com.apple.SecCodeWrapper (4.0 - 448.0.5)  
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SecCodeWrapper.framework/Versions/A/SecCodeWrapper

0x7fff5ead4000 - 0x7fff5ebf5ff5 com.apple.Sharing (1476 - 1476)  
<AD1D84E5-6728-3B38-AC15-2C3822F4747C> /System/Library/PrivateFrameworks/  
Sharing.framework/Versions/A/Sharing

0x7fff6072e000 - 0x7fff6073bfff com.apple.SpeechRecognitionCore (6.0.85 - 6.0.85)  
<95F62538-2541-3D92-8171-D49D4071A4BB> /System/Library/PrivateFrameworks/  
SpeechRecognitionCore.framework/Versions/A/SpeechRecognitionCore

0x7fff60b2b000 - 0x7fff60b68ffa com.apple.StorageKit (1.0 - 587.1)  
<EF1BB674-9725-3792-8105-A3F115BF96B8> /System/Library/PrivateFrameworks/  
StorageKit.framework/Versions/A/StorageKit

0x7fff60b69000 - 0x7fff60b79ff9 com.apple.StorageManagement (1.0 - 1)  
<DA74A4ED-ABEE-3DE6-AB39-548F065AB856> /System/Library/PrivateFrameworks/  
StorageManagement.framework/Versions/A/StorageManagement

0x7fff60e09000 - 0x7fff60e4aff1 com.apple.StreamingZip (1.0 - 1)  
<DEF13A63-0959-3DA2-BA86-368320A6F569> /System/Library/PrivateFrameworks/  
StreamingZip.framework/Versions/A/StreamingZip

0x7fff60f5b000 - 0x7fff60f64fff com.apple.SymptomDiagnosticReporter (1.0 - 1238.0.2) <BE499ACD-18B5-3D45-95B3-BE9A98FB099D> /System/Library/PrivateFrameworks/SymptomDiagnosticReporter.framework/Versions/A/SymptomDiagnosticReporter

0x7fff60fd5000 - 0x7fff60fffff0 com.apple.framework.SystemAdministration (1.0 - 1.0) <6060C208-BCCC-3FBD-945A-AB012B7E89A3> /System/Library/PrivateFrameworks/SystemAdministration.framework/Versions/A/SystemAdministration

0x7fff611fd000 - 0x7fff61213fff com.apple.private.SystemPolicy (1.0 - 1) <DD9B9E2E-6E65-3328-8E84-287CA07BF693> /System/Library/PrivateFrameworks/SystemPolicy.framework/Versions/A/SystemPolicy

0x7fff61218000 - 0x7fff61228fff com.apple.TCC (1.0 - 1) <DCE1D8C7-7BEB-3201-A0E5-38F012E6B1BC> /System/Library/PrivateFrameworks/TCC.framework/Versions/A/TCC

0x7fff61712000 - 0x7fff617d9fff com.apple.TextureIO (3.10.9 - 3.10.9) <733D396B-AFB1-37F3-80E4-95F63A879849> /System/Library/PrivateFrameworks/TextureIO.framework/Versions/A/TextureIO

0x7fff61947000 - 0x7fff61948fff com.apple.TrustEvaluationAgent (2.0 - 33) <B691985E-2E58-37C3-B336-8882DE4BF19A> /System/Library/PrivateFrameworks/TrustEvaluationAgent.framework/Versions/A/TrustEvaluationAgent

0x7fff6261f000 - 0x7fff62878fff com.apple.UIFoundation (1.0 - 658.1) <603A4D49-EEEC-3FE1-9F65-49ACA14DC188> /System/Library/PrivateFrameworks/UIFoundation.framework/Versions/A/UIFoundation

0x7fff63364000 - 0x7fff63368ffe com.apple.Uninstall (1.0.1 - 211) <9B187F82-B166-31CA-9FBF-2266157F718C> /System/Library/PrivateFrameworks/Uninstall.framework/Versions/A/Uninstall

0x7fff633d6000 - 0x7fff633d8fff libUAPreferences.dylib (487) <F029D4EF-60A9-38C8-B06A-A74CC9255E8D> /System/Library/PrivateFrameworks/UniversalAccess.framework/Versions/A/Libraries/libUAPreferences.dylib

0x7fff63467000 - 0x7fff63487fff com.apple.UserManagement (1.0 - 1) <8A3367D2-C5E3-380E-BEE4-BA61A177DF92> /System/Library/PrivateFrameworks/UserManagement.framework/Versions/A/UserManagement

0x7fff64235000 - 0x7fff6431fff6 com.apple.ViewBridge (461 - 461) <96493EB6-90E4-3A30-BD97-401345AF67B2> /System/Library/PrivateFrameworks/ViewBridge.framework/Versions/A/ViewBridge

0x7fff6509f000 - 0x7fff650a2ffe com.apple.dt.XCTTargetBootstrap (1.0 - 14805.2) <ED72AEE6-99F5-3A44-BDF9-50A5BD7B6719> /System/Library/PrivateFrameworks/XCTTargetBootstrap.framework/Versions/A/XCTTargetBootstrap

0x7fff6511b000 - 0x7fff65129ffd com.apple.audio.caulk (1.0 - 32.3) <7FBF3E20-D360-348B-8FC5-77A90444B552> /System/Library/PrivateFrameworks/caulk.framework/Versions/A/caulk

0x7fff65468000 - 0x7fff6546aff3 com.apple.loginsupport (1.0 - 1) <40974390-



AFD7-3CEF-8B8D-6219BF916A4E> /System/Library/PrivateFrameworks/login.framework/  
Versions/A/Frameworks/loginsupport.framework/Versions/A/loginsupport

0x7fff6546b000 - 0x7fff6547effd com.apple.login (3.0 - 3.0) <F3105290-D037-3D94-  
B12F-37D4E0338FE4> /System/Library/PrivateFrameworks/login.framework/Versions/A/  
login

0x7fff654b0000 - 0x7fff654bcffd com.apple.perfdata (1.0 - 51)  
<B02E4934-3F7D-311D-A09D-17F5F286B0A9> /System/Library/PrivateFrameworks/  
perfdata.framework/Versions/A/perfdata

0x7fff6578f000 - 0x7fff6579bff6 libAudioStatistics.dylib (1104.15.1)  
<BDDC4BCC-7D0D-36E4-AB2B-6FF2F05C4920> /usr/lib/libAudioStatistics.dylib

0x7fff6579c000 - 0x7fff657d1ff2 libAudioToolboxUtility.dylib (1104.15.1)  
<221386C3-366B-37A7-8A75-4176678F97AA> /usr/lib/libAudioToolboxUtility.dylib

0x7fff657d8000 - 0x7fff6580dff7 libCRFSuite.dylib (48) <45ADF347-A43F-3E95-  
BF26-94DC525DCC81> /usr/lib/libCRFSuite.dylib

0x7fff65810000 - 0x7fff6581aff3 libChineseTokenizer.dylib (34) <94E822B6-  
F850-33C5-888C-D5C8AE12122C> /usr/lib/libChineseTokenizer.dylib

0x7fff6581b000 - 0x7fff658a4fff libCoreStorage.dylib (551)  
<C1725111-6395-3923-83BE-C36EDCD981B9> /usr/lib/libCoreStorage.dylib

0x7fff658a7000 - 0x7fff658a9fff libDiagnosticMessagesClient.dylib (112) <418D550B-  
C748-3D55-A6D5-0398E032F9F3> /usr/lib/libDiagnosticMessagesClient.dylib

0x7fff658ed000 - 0x7fff65aa4ff3 libFosl\_dynamic.dylib (100.4) <F5583DFD-  
E3A1-3D6A-8698-613F7FA119A0> /usr/lib/libFosl\_dynamic.dylib

0x7fff65ab8000 - 0x7fff65ac2ffc libIASUnifiedProgress.dylib (542.2) <7262FC08-  
AA04-31A1-9B63-9500E78857CE> /usr/lib/libIASUnifiedProgress.dylib

0x7fff65acb000 - 0x7fff65ad1ff3 libIOReport.dylib (54) <491518A9-84B3-3066-905F-  
BFF5D21EB760> /usr/lib/libIOReport.dylib

0x7fff65bb1000 - 0x7fff65bb8fff libMatch.1.dylib (36) <AA3A44D7-268D-3B0A-  
AAD5-15090FF127D9> /usr/lib/libMatch.1.dylib

0x7fff65be8000 - 0x7fff65c07ff7 libMobileGestalt.dylib (826.1.1)  
<74BEEAE6-2825-33F7-B63B-4C2A27974F30> /usr/lib/libMobileGestalt.dylib

0x7fff65c08000 - 0x7fff65c71fff libParallelCompression.dylib (142) <0A18715C-  
B33C-35CB-BBA9-02919E28D335> /usr/lib/libParallelCompression.dylib

0x7fff65c7c000 - 0x7fff65d59ff7 libSMC.dylib (20) <1B9336F6-B827-310E-  
AF02-473F2D3D9E81> /usr/lib/libSMC.dylib

0x7fff65d5a000 - 0x7fff65d5efff libScreenReader.dylib (698) <FF5D3A78-  
BA04-30CE-B095-FA7690D16701> /usr/lib/libScreenReader.dylib

0x7fff65d6e000 - 0x7fff65d6fff3 libSystem.B.dylib (1281)  
<66742D2E-591A-32B2-8E92-4A54BEE843F6> /usr/lib/libSystem.B.dylib

0x7fff65dff000 - 0x7fff65e00fff libThaiTokenizer.dylib (3)  
<D2A89215-5281-310F-8C75-47F1E6A14F62> /usr/lib/libThaiTokenizer.dylib

0x7fff65e01000 - 0x7fff65e07ff9 libUniversalAccess.dylib (487)  
<88F4CD7C-3D24-3184-89CF-02C3922BF52C> /usr/lib/libUniversalAccess.dylib

0x7fff65e18000 - 0x7fff65e2efff libapple\_nghttp2.dylib (1.39.2)  
<0A685DAA-9FC6-3C87-83F1-1D11FC87C1F4> /usr/lib/libapple\_nghttp2.dylib

0x7fff65e63000 - 0x7fff65ed5ff7 libarchive.2.dylib (72.11.2)  
<8636AE5A-0CBB-306C-8A4B-2E612D2D6B13> /usr/lib/libarchive.2.dylib

0x7fff65ed6000 - 0x7fff66003fc5 libate.dylib (2.0.9) <0D32F5BA-252D-3AF3-A2F4-176BC71239AC> /usr/lib/libate.dylib

0x7fff66007000 - 0x7fff66007ff3 libauto.dylib (187)  
<AACF68BC-9A05-36F8-8F60-78951422E090> /usr/lib/libauto.dylib

0x7fff660c5000 - 0x7fff660d5fff libbsm.0.dylib (60)  
<F03FA480-0B22-3300-833F-03E88F43C504> /usr/lib/libbsm.0.dylib

0x7fff660d6000 - 0x7fff660e2fff libbz2.1.0.dylib (44) <8B522880-BEF8-3668-B785-F2AB4DE8F366> /usr/lib/libbz2.1.0.dylib

0x7fff660e3000 - 0x7fff66136fff libc++.1.dylib (800.6) <328FB687-2363-38B1-AC11-11736925C775> /usr/lib/libc++.1.dylib

0x7fff66137000 - 0x7fff6614bfff libc++abi.dylib (800.7)  
<02753D3D-91C6-3670-8B5D-EBE040B516FC> /usr/lib/libc++abi.dylib

0x7fff6614c000 - 0x7fff6614cfff libcharset.1.dylib (59) <12D52FA5-EBCA-3F3C-A269-1095F268F92F> /usr/lib/libcharset.1.dylib

0x7fff6614d000 - 0x7fff6615effb libcmph.dylib (8) <7DD1F726-F3E3-341A-AFAC-83E9A470883C> /usr/lib/libcmph.dylib

0x7fff6615f000 - 0x7fff66177fcf libcompression.dylib (87) <3D8825ED-7C2B-3EBC-B6D2-DE1C03E178CA> /usr/lib/libcompression.dylib

0x7fff66439000 - 0x7fff6644ffff libcoretls.dylib (167)  
<1C64EA6F-8E0D-319D-99D4-026150EEB2B2> /usr/lib/libcoretls.dylib

0x7fff66450000 - 0x7fff66451ffb libcoretls\_cfhelpers.dylib (167)  
<724B0181-4D9E-3D2F-B1AB-B4FD6A7BAB2C> /usr/lib/libcoretls\_cfhelpers.dylib

0x7fff665f4000 - 0x7fff666eefff libcrypto.35.dylib (47.11.1) <DAE379C6-E19A-3E15-B243-D4610C8E9B47> /usr/lib/libcrypto.35.dylib

0x7fff668f5000 - 0x7fff669f9fe7 libcrypto.44.dylib (47.11.1) <55C6ABAB-C237-39F1-A78C-4594896CF7E6> /usr/lib/libcrypto.44.dylib

0x7fff669fc000 - 0x7fff66a07ff7 libcsfde.dylib (551) <C3036CBC-EA31-3272-9DF0-D8F984A21C51> /usr/lib/libcsfde.dylib

0x7fff66a0f000 - 0x7fff66a6efff libcups.2.dylib (483)

<0C9BCEA5-628B-31E5-8609-00F811CAF505> /usr/lib/libcups.2.dylib

0x7fff66a70000 - 0x7fff66ad7fff libcurl.4.dylib (118) <2B9763A5-A54D-3F2B-98BD-1F9BAEAE5E0> /usr/lib/libcurl.4.dylib

0x7fff66b57000 - 0x7fff66b5bffb libdz.dylib (1.0.0 - 228.0.3)  
<4061CEDB-1478-37D0-9625-7F511203AC0B> /usr/lib/libdz.dylib

0x7fff66b7a000 - 0x7fff66b7aff3 libenergytrace.dylib (21) <E42B4AFF-3FAC-3CE4-A7BF-48621458B356> /usr/lib/libenergytrace.dylib

0x7fff66b7b000 - 0x7fff66b94ff7 libexpat.1.dylib (19) <A0E2F6F3-BFFA-3D59-872F-F093487F0B42> /usr/lib/libexpat.1.dylib

0x7fff66ba2000 - 0x7fff66ba4ff7 libfakelink.dylib (149)  
<FC5712CB-2188-3DAD-8DD4-CC3ECCA3F9A8> /usr/lib/libfakelink.dylib

0x7fff66bb3000 - 0x7fff66bb8fff libgermantok.dylib (24) <93E95178-E436-3611-A4A3-CB1D42CF4064> /usr/lib/libgermantok.dylib

0x7fff66bb9000 - 0x7fff66bbdff7 libheimdal-asn1.dylib (564.0.3)  
<51551E63-5AC6-30D3-B178-8BDA782C80EA> /usr/lib/libheimdal-asn1.dylib

0x7fff66bbe000 - 0x7fff66caeff7 libiconv.2.dylib (59)  
<1A648E74-25D4-3F9B-94C4-10B58AD091B7> /usr/lib/libiconv.2.dylib

0x7fff66caf000 - 0x7fff66f07ff7 libicucore.A.dylib (64232.0.1)  
<88E47471-605C-3C86-871B-5D2F4628A936> /usr/lib/libicucore.A.dylib

0x7fff66f21000 - 0x7fff66f22fff liblangid.dylib (133) <78DF87EE-CDCE-3628-B239-56743169BC93> /usr/lib/liblangid.dylib

0x7fff66f23000 - 0x7fff66f3bffb liblzma.5.dylib (16) <D416FC97-76EC-38B5-A134-85DDFEA9D297> /usr/lib/liblzma.5.dylib

0x7fff66f53000 - 0x7fff66ffafff libmecab.dylib (879) <DD60E6AA-154E-3294-B2C0-3277B754F3BC> /usr/lib/libmecab.dylib

0x7fff66ffb000 - 0x7fff6725afe9 libmecabra.dylib (879) <B5BE574C-DD3A-336D-87A3-202CE7803A45> /usr/lib/libmecabra.dylib

0x7fff675bb000 - 0x7fff675eaff7 libncurses.5.4.dylib (57) <2AD2FDD9-846A-3A79-ADCC-008E8B227BD6> /usr/lib/libncurses.5.4.dylib

0x7fff67719000 - 0x7fff67b8bff6 libnetwork.dylib (1880.11.2) <CC02BF51-A056-3656-B735-E8CD0F4B7B15> /usr/lib/libnetwork.dylib

0x7fff67c29000 - 0x7fff67c5afd6 libobjc.A.dylib (779.1)  
<D681D734-2739-3D18-9DCB-9ECDA9D492BC> /usr/lib/libobjc.A.dylib

0x7fff67c5b000 - 0x7fff67c5cff7 libodfde.dylib (26) <7D93F754-25C3-3D34-A0A0-474D5B4A90DC> /usr/lib/libodfde.dylib

0x7fff67c6d000 - 0x7fff67c71fff libpam.2.dylib (25) <86317F48-E926-30AC-AE9F-ABB33543FBC8> /usr/lib/libpam.2.dylib

0x7fff67c74000 - 0x7fff67ca7ff7 libpcap.A.dylib (89.11.2) <65A8EBD2-F059-353B-9538-20D1314EFD89> /usr/lib/libpcap.A.dylib

0x7fff67ce5000 - 0x7fff67cf3ff9 libperfcheck.dylib (37) <1A8CE36E-E79C-311A-B1CA-16660A6502C8> /usr/lib/libperfcheck.dylib

0x7fff67d27000 - 0x7fff67d28ff3 libquit.dylib (281) <A52DA07A-AB2B-35C3-A4DE-5F376C899005> /usr/lib/libquit.dylib

0x7fff67d29000 - 0x7fff67d41ff7 libresolv.9.dylib (67) <06480BFC-6372-3225-B77A-F5AC9969DB64> /usr/lib/libresolv.9.dylib

0x7fff67d43000 - 0x7fff67d86ff7 libsandbox.1.dylib (1217.11.16) <B0829BE0-60A4-3AE0-AF9D-50EED4675AF6> /usr/lib/libsandbox.1.dylib

0x7fff67d87000 - 0x7fff67d99fff libsasl2.2.dylib (213) <277129F1-29AE-34EB-BBAB-FF6DF4B43FAB> /usr/lib/libsasl2.2.dylib

0x7fff67d9a000 - 0x7fff67d9bff7 libspindump.dylib (281) <FB1352D8-FE38-3D47-A273-458C1C442E67> /usr/lib/libspindump.dylib

0x7fff67d9c000 - 0x7fff67f7dff7 libsqlite3.dylib (308.1) <5BEC5563-DECD-3A7D-A9A4-B7814F074D35> /usr/lib/libsqlite3.dylib

0x7fff68071000 - 0x7fff6809effb libssl.46.dylib (47.11.1) <CA81BD73-E5BF-3F88-A70E-49BA7C6B2781> /usr/lib/libssl.46.dylib

0x7fff680ec000 - 0x7fff680f1ff5 libsysdiagnose.dylib (787.0.7) <4C501E0F-94B9-3C15-A848-46C56B0E1D93> /usr/lib/libsysdiagnose.dylib

0x7fff681cc000 - 0x7fff681cffff libutil.dylib (57) <844B7887-09B3-3D12-ACDE-C4EB8F53DC62> /usr/lib/libutil.dylib

0x7fff681d0000 - 0x7fff681ddfff libxar.1.dylib (420) <E0D7C0A6-76EC-3682-A393-6596D4986269> /usr/lib/libxar.1.dylib

0x7fff681e3000 - 0x7fff682c5ff7 libxml2.2.dylib (32.12) <C0A87484-D334-3B50-8F8A-A9C63295F49E> /usr/lib/libxml2.2.dylib

0x7fff682c9000 - 0x7fff682f1fff libxslt.1.dylib (16.6) <CD9E79B0-159A-3055-B62A-57AB2B445912> /usr/lib/libxslt.1.dylib

0x7fff682f2000 - 0x7fff68304fff libz.1.dylib (76) <3FC3FC3E-ABF3-3167-9078-B54C952608B4> /usr/lib/libz.1.dylib

0x7fff68d69000 - 0x7fff68d6eff7 libcache.dylib (83) <8EC69760-6DAA-3068-9372-F1D554C548E5> /usr/lib/system/libcache.dylib

0x7fff68d6f000 - 0x7fff68d7aff7 libcommonCrypto.dylib (60165) <698BE754-137D-361D-B826-57B8DD969E4A> /usr/lib/system/libcommonCrypto.dylib

0x7fff68d7b000 - 0x7fff68d82fff libcompiler\_rt.dylib (101.2) <0BE7F119-C9C2-3612-A3F4-2336D4444476> /usr/lib/system/libcompiler\_rt.dylib

0x7fff68d83000 - 0x7fff68d8cff7 libcopyfile.dylib (166)

<B5E73B1C-0BCF-33FE-80A1-D9E3BA3033D4> /usr/lib/system/libcopyfile.dylib

0x7fff68d8d000 - 0x7fff68e24fc3 libcorecrypto.dylib (866.0.10) <58344B13-CD10-3697-A516-6F5B06DD1EB7> /usr/lib/system/libcorecrypto.dylib

0x7fff68f3b000 - 0x7fff68f7cff0 libdispatch.dylib (1173.0.3) <F4260D89-F67D-30CB-AF61-7ED25CB687DB> /usr/lib/system/libdispatch.dylib

0x7fff68f7d000 - 0x7fff68fb2fff libdyld.dylib (732.8) <98960E27-A08B-36DA-A5CB-8538B2D6757E> /usr/lib/system/libdyld.dylib

0x7fff68fb3000 - 0x7fff68fb3ffb libkeymgr.dylib (30) <682B41BC-BDC2-38D5-8820-87099606FA12> /usr/lib/system/libkeymgr.dylib

0x7fff68fb4000 - 0x7fff68fc0ff7 libkxld.dylib (6153.11.26) <53BE9630-BDC8-3649-8709-7A4F86777B1A> /usr/lib/system/libkxld.dylib

0x7fff68fc1000 - 0x7fff68fc1ff7 liblaunch.dylib (1738.11.1) <7FE11F0D-65BC-3726-B1DD-E84F329193E0> /usr/lib/system/liblaunch.dylib

0x7fff68fc2000 - 0x7fff68fc7ff7 libmacho.dylib (949.0.1) <163DFE06-2FAD-3CBC-80EF-C38EED6AEA52> /usr/lib/system/libmacho.dylib

0x7fff68fc8000 - 0x7fff68fcaff3 libquarantine.dylib (110.0.4) <C8F39330-8CB5-30B0-8564-96453DCEFAD7> /usr/lib/system/libquarantine.dylib

0x7fff68fcb000 - 0x7fff68fccff7 libremovefile.dylib (48) <FB280185-B5ED-3F08-B08A-A378865C1398> /usr/lib/system/libremovefile.dylib

0x7fff68fcd000 - 0x7fff68fe4fff libsystem\_asl.dylib (377.0.1) <30CE9DAF-B1FA-3510-832B-F1CE19933ED7> /usr/lib/system/libsystem\_asl.dylib

0x7fff68fe5000 - 0x7fff68fe5fff libsystem\_blocks.dylib (74) <E0B8C825-E62B-357E-A2A0-13776F0A0F8C> /usr/lib/system/libsystem\_blocks.dylib

0x7fff68fe6000 - 0x7fff6906dff7 libsystem\_c.dylib (1353.11.2) <2A5BFAFE-8214-3B35-AD46-C07A1A8B8941> /usr/lib/system/libsystem\_c.dylib

0x7fff6906e000 - 0x7fff69071fff libsystem\_configuration.dylib (1061.0.2) <56174463-22ED-337F-B0D4-94995DCDB9B7> /usr/lib/system/libsystem\_configuration.dylib

0x7fff69072000 - 0x7fff69075ff7 libsystem\_coreservices.dylib (114) <01695913-028E-3AE1-8D4E-2B2769109811> /usr/lib/system/libsystem\_coreservices.dylib

0x7fff69076000 - 0x7fff6907dfff libsystem\_darwin.dylib (1353.11.2) <4CE52C63-87AA-3C6D-899F-8C983E5FC061> /usr/lib/system/libsystem\_darwin.dylib

0x7fff6907e000 - 0x7fff69085ffb libsystem\_dnssd.dylib (1096.0.2) <DC7381E8-F09F-3441-8267-9B8F50A0EBA9> /usr/lib/system/libsystem\_dnssd.dylib

0x7fff69086000 - 0x7fff69087ffb libsystem\_featureflags.dylib (17) <DBCA4AA2-CA05-38D5-AB4B-BE0F3E09BB8B> /usr/lib/system/libsystem\_featureflags.dylib

0x7fff69088000 - 0x7fff690d5ff7 libsystem\_info.dylib (538) <9F9D6368-

A11E-32F1-9BB5-C153F42EFED8> /usr/lib/system/libsystem\_info.dylib

0x7fff690d6000 - 0x7fff69102fff libsystem\_kernel.dylib (6153.11.26) <4CE9D54A-A975-348E-B878-EE74EDFC956B> /usr/lib/system/libsystem\_kernel.dylib

0x7fff69103000 - 0x7fff6914efe7 libsystem\_m.dylib (3178) <FE5E5748-6ACA-3AD2-AF9D-557EB9A3BD7E> /usr/lib/system/libsystem\_m.dylib

0x7fff6914f000 - 0x7fff69176fff libsystem\_malloc.dylib (283) <02925539-3CBA-39EB-BA6B-9A936CFA0BF8> /usr/lib/system/libsystem\_malloc.dylib

0x7fff69177000 - 0x7fff69184ff3 libsystem\_networkextension.dylib (1095.11.9) <8B5EE189-E3D1-31FD-878F-50286B6E7047> /usr/lib/system/libsystem\_networkextension.dylib

0x7fff69185000 - 0x7fff6918efff libsystem\_notify.dylib (241) <89381127-2A07-3F07-B865-358FACCF9102> /usr/lib/system/libsystem\_notify.dylib

0x7fff6918f000 - 0x7fff69198fe7 libsystem\_platform.dylib (220) <90E508E4-46D8-33FF-8552-DDAA079977A0> /usr/lib/system/libsystem\_platform.dylib

0x7fff69199000 - 0x7fff691a3fff libsystem\_pthread.dylib (416.11.1) <2EA6F95F-F264-30B6-8AF2-24197B5AED84> /usr/lib/system/libsystem\_pthread.dylib

0x7fff691a4000 - 0x7fff691a8ffb libsystem\_sandbox.dylib (1217.11.16) <51129CBB-BC46-37F1-A1B5-ECFA9530704D> /usr/lib/system/libsystem\_sandbox.dylib

0x7fff691a9000 - 0x7fff691abfff libsystem\_secinit.dylib (62.0.4) <A48D9AF3-75F2-3331-A0C8-0A23771F4AC7> /usr/lib/system/libsystem\_secinit.dylib

0x7fff691ac000 - 0x7fff691b3ffb libsystem\_symptoms.dylib (1238.0.2) <08E8CF75-5F77-3475-A48E-A01CBDF09173> /usr/lib/system/libsystem\_symptoms.dylib

0x7fff691b4000 - 0x7fff691caff2 libsystem\_trace.dylib (1147.0.3) <5836645E-9862-326D-AB3B-A19E76BE29B9> /usr/lib/system/libsystem\_trace.dylib

0x7fff691cc000 - 0x7fff691d1ffb libunwind.dylib (35.4) <F5AE1D43-7C5F-3BA2-94D3-E769F82C0F61> /usr/lib/system/libunwind.dylib

0x7fff691d2000 - 0x7fff69206ff6 libxpc.dylib (1738.11.1) <2E9076CD-6C0E-38B6-8403-B2DDCE125FBF> /usr/lib/system/libxpc.dylib

#### 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: 1030

thread\_create: 0

thread\_set\_state: 0

VM Region Summary:

ReadOnly portion of Libraries: Total=551.7M resident=0K(0%)  
swapped\_out\_or\_unallocated=551.7M(100%)

Writable regions: Total=62.9M written=0K(0%) resident=0K(0%) swapped\_out=0K(0%)  
unallocated=62.9M(100%)

#### VIRTUAL REGION

REGION TYPE	SIZE	COUNT (non-coalesced)
=====	=====	=====
Activity Tracing	256K	1
CG raster data	376K	4
CoreAnimation	16K	1
CoreServices	208K	1
CoreUI image data	60K	1
Dispatch continuations	4096K	1
Foundation	1032K	3
Kernel Alloc Once	8K	1
MALLOC	36.6M	39
MALLOC guard page	32K	7
Memory Tag 242	12K	1
STACK GUARD	56.0M	8
Stack	11.6M	8

VM_ALLOCATE	9260K	9
__DATA	27.2M	366
__DATA_CONST	80K	7
__FONT_DATA	4K	1
__LINKEDIT	350.2M	23
__OBJC_RO	31.8M	1
__OBJC_RW	1764K	2
__TEXT	201.5M	358
__UNICODE	564K	1
mapped file	45.1M	10
shared memory	1184K	18
=====	=====	=====
TOTAL	778.5M	872

## WindowServer

Process: WindowServer [829]

Path: /System/Library/PrivateFrameworks/SkyLight.framework/Versions/A/Resources/WindowServer

Identifier: WindowServer

Version: 600.00 (340.54)

Code Type: X86-64 (Native)

Parent Process: launchd [1]

Responsible: WindowServer [829]

User ID: 88

Date/Time: 2019-11-01 18:02:09.925 +0000

OS Version: Mac OS X 10.15 (19A583)

Report Version: 12

Anonymous UUID: BEF10A0D-672D-9364-0D4C-1563ABE5F5D4



Sleep/Wake UUID: 74582BD5-60FE-494A-82A1-AC64E33EAC00

Time Awake Since Boot: 900 seconds

Time Since Wake: 330 seconds

System Integrity Protection: disabled

Crashed Thread: 4 Dispatch queue: DisplayServicesSerializationQueue

Exception Type: EXC\_CRASH (SIGABRT)

Exception Codes: 0x0000000000000000, 0x0000000000000000

Exception Note: EXC\_CORPSE\_NOTIFY

Application Specific Information:

Assertion failed: (!CGSRunningInServer()), function SLSGetOnlineDisplayList, file /  
BuildRoot/Library/Caches/com.apple.xbs/Sources/SkyLight/SkyLight-340.54/SkyLight/  
Services/Display/CGSDisplay.cc, line 983.

StartTime:2019-11-01 18:01:48

GPU:

MetalDevice for accelerator(0x3aaf): 0x0 (MTLDevice: 0x0)

IOService:/AppleACPIPlatformExpert/PCI0@0/AppleACPIPCI/IXVE@10/IOPP/IGPU@0/  
NVDA,Display-A@0/NVDA Tesla

IOService:/AppleACPIPlatformExpert/PCI0@0/AppleACPIPCI/IXVE@10/IOPP/IGPU@0/  
NVDA,Display-B@1/NVDA Tesla

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

0 libsystem\_malloc.dylib 0x00007fff69153275 free + 0

1 libGPUSupport.dylib 0x0000000111c06df9 gldDestroyTexture + 39

2 libGFXShared.dylib 0x000000010a70d69e gfxDestroyPluginTexture + 60

3	GLEngine	0x0000000010f0efc1d gleFreeTextureObject + 36
4	GLEngine	0x0000000010f0c0d32 gleUnbindDeleteHashNamesAndObjects + 185
5	GLEngine	0x0000000010efcfa0e glDeleteTextures_Exec + 713
6	com.apple.QuartzCore	0x00007fff3d645943 CA::OGL::CGLContext::delete_image(CA::OGL::Image*) + 121
7	com.apple.QuartzCore	0x00007fff3d5e5fda CA::OGL::Context::collect(bool) + 1266
8	com.apple.QuartzCore	0x00007fff3d61eb4e CA::OGL::CGLContext::collect(bool) + 18
9	com.apple.QuartzCore	0x00007fff3d6db988 CARenderOGLRender + 83
10	SkyLightOriginal	0x0000000010a30ffe2 gl_composite_layer_core(WSCompositeSourceLayer*, WSCompositeDestination*) + 11158
11	SkyLightOriginal	0x0000000010a30d318 gl_composite_layers(WSCompositeSourceLayer*, WSCompositeDestination*) + 2757
12	SkyLightOriginal	0x0000000010a37dec6 CompositorGL::CompositeLayersToDestination(WSCompositeSourceLayer*, WSCompositeDestination*, unsigned long long) + 780
13	SkyLightOriginal	0x0000000010a2b4725 CaptureSurfaceGL::Populate(WSCompositeSourceLayer*) + 213
14	SkyLightOriginal	0x0000000010a3cc801 WSCALayerBackingUpdateFlatteningIfNeeded + 2007
15	SkyLightOriginal	0x0000000010a400182 generate_layers_for_window_surfaces(CGXRedrawState*, CGXWindow*, CGSOrderOp, unsigned int, int*, WSCompositeSourceLayer**, CGSRegionObject*) + 2625
16	SkyLightOriginal	0x0000000010a3f56e3 generate_layers_for_window(CGXRedrawState*, CGXWindow*) + 4565
17	SkyLightOriginal	0x0000000010a3f26bf CGXUpdateDisplay + 17967
18	SkyLightOriginal	0x0000000010a3ede20 update_display_callback(void*, double) + 298
19	SkyLightOriginal	0x0000000010a4328a1 run_timer_pass + 489
20	SkyLightOriginal	0x0000000010a464bd2 CGXRunOneServicesPass + 180
21	SkyLightOriginal	0x0000000010a465d52 server_loop + 602
22	SkyLightOriginal	0x0000000010a465af1 SLXServer + 1349
23	WindowServer	0x0000000010a1f750d 0x10a1f6000 + 5389

24 libdyld.dylib 0x00007fff68f8e405 start + 1

Thread 1:

0	libsystem_kernel.dylib	0x00007fff690d7146 mach_msg_trap + 10
1	libsystem_kernel.dylib	0x00007fff690d76ac mach_msg + 60
2	CoreDisplayOriginal	0x000000010a5dd91d 0x10a5bb000 + 141597
3	CoreDisplayOriginal	0x000000010a66fda5 0x10a5bb000 + 740773
4	CoreDisplayOriginal	0x000000010a66fe47 0x10a5bb000 + 740935
5	libsystem_pthread.dylib	0x00007fff6919ed76 _pthread_start + 125
6	libsystem_pthread.dylib	0x00007fff6919b5d7 thread_start + 15

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

0	libsystem_kernel.dylib	0x00007fff690d7146 mach_msg_trap + 10
1	libsystem_kernel.dylib	0x00007fff690d76ac mach_msg + 60
2	libsystem_kernel.dylib	0x00007fff690de9fa mach_msg_server_once + 270
3	CoreDisplayOriginal	0x000000010a5c3b98 0x10a5bb000 + 35736
4	libdispatch.dylib	0x00007fff68f3d553 _dispatch_call_block_and_release + 12
5	libdispatch.dylib	0x00007fff68f3e4de _dispatch_client_callout + 8
6	libdispatch.dylib	0x00007fff68f43a9e _dispatch_lane_serial_drain + 597
7	libdispatch.dylib	0x00007fff68f44422 _dispatch_lane_invoke + 363
8	libdispatch.dylib	0x00007fff68f4daa1 _dispatch_workloop_worker_thread + 598
9	libsystem_pthread.dylib	0x00007fff6919b763 _pthread_wqthread + 290
10	libsystem_pthread.dylib	0x00007fff6919b5c3 start_wqthread + 15

Thread 3:

0	libsystem_pthread.dylib	0x00007fff6919b5b4 start_wqthread + 0
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Thread 4 Crashed:: Dispatch queue: DisplayServicesSerializationQueue

0	libsystem_kernel.dylib	0x00007fff690dd47a __pthread_kill + 10
---	------------------------	--

1	libsystem_pthread.dylib	0x00007fff6919e707 pthread_kill + 384
2	libsystem_c.dylib	0x00007fff69065a08 abort + 120
3	libsystem_c.dylib	0x00007fff69064cc2 __assert_rtn + 314
4	SkyLightOriginal	0x0000000010a3e0702 SLGetOnlineDisplayList + 465
5	SkyLightOriginal	0x0000000010a41adb4 SLGetOnlineDisplayList + 41
6	com.apple.DisplayServicesFW	0x0000000010a9eda7a DSDeviceOnline + 60
7	com.apple.DisplayServicesFW	0x0000000010a9e7371 DSGetCGSService + 232
8	com.apple.DisplayServicesFW	0x0000000010a9e704c DSDeviceNew + 110
9	com.apple.DisplayServicesFW	0x0000000010a9e6fb1 DSDeviceForDisplayID + 221
10	com.apple.DisplayServicesFW	0x0000000010a9e8732 DisplayServicesHasAmbientLightCompensation + 13
11	com.apple.AmbientDisplay	0x00007fff4467cb70 __AMBDapplyIntentionFromPreferencesForDisplayID_block_invoke + 17
12	libdispatch.dylib	0x00007fff68f3e4de _dispatch_client_callout + 8
13	libdispatch.dylib	0x00007fff68f4a576 _dispatch_lane_barrier_sync_invoke_and_complete + 60
14	com.apple.AmbientDisplay	0x00007fff4467c666 AMBDapplyIntentionFromPreferencesForDisplayID + 317
15	CoreDisplayOriginal	0x0000000010a608db0 0x10a5bb000 + 318896
16	libdispatch.dylib	0x00007fff68f3d553 _dispatch_call_block_and_release + 12
17	libdispatch.dylib	0x00007fff68f3e4de _dispatch_client_callout + 8
18	libdispatch.dylib	0x00007fff68f43a9e _dispatch_lane_serial_drain + 597
19	libdispatch.dylib	0x00007fff68f44422 _dispatch_lane_invoke + 363
20	libdispatch.dylib	0x00007fff68f4daa1 _dispatch_workloop_worker_thread + 598
21	libsystem_pthread.dylib	0x00007fff6919b763 _pthread_wqthread + 290
22	libsystem_pthread.dylib	0x00007fff6919b5c3 start_wqthread + 15

Thread 5:: com.apple.coreanimation.render-server

0	libsystem_kernel.dylib	0x00007fff690d7146 mach_msg_trap + 10
1	libsystem_kernel.dylib	0x00007fff690d76ac mach_msg + 60
2	com.apple.QuartzCore	0x00007fff3d5f2566

CA::Render::Server::server\_thread(void\*) + 958

3 com.apple.QuartzCore 0x00007fff3d5f219d thread\_fun(void\*) + 25

4 libsystem\_pthread.dylib 0x00007fff6919ed76 \_pthread\_start + 125

5 libsystem\_pthread.dylib 0x00007fff6919b5d7 thread\_start + 15

Thread 4 crashed with X86 Thread State (64-bit):

rax: 0x0000000000000000 rbx: 0x000070000b2b8000 rcx: 0x000070000b2b74f8 rdx:  
0x0000000000000000

rdi: 0x00000000000002e07 rsi: 0x0000000000000006 rbp: 0x000070000b2b7520 rsp:  
0x000070000b2b74f8

r8: 0x000000000000003d7 r9: 0xffffffffffffffff r10: 0x0000000000000000 r11:  
0x00000000000000246

r12: 0x00000000000002e07 r13: 0x0000000010efa7000 r14: 0x0000000000000006 r15:  
0x0000000000000016

rip: 0x00007fff690dd47a rfl: 0x00000000000000246 cr2: 0x0000000010efa7000

Logical CPU: 0

Error Code: 0x02000148

Trap Number: 133

Binary Images:

0x10a1f6000 - 0x10a1f7fff WindowServer (600.00 - 340.54) <45BCA377-  
EDE8-3542-B7BC-925729BFA9B3> /System/Library/PrivateFrameworks/  
SkyLight.framework/Resources/WindowServer

0x10a202000 - 0x10a203ffb com.apple.SkyLight (1.600.0 - 0)  
<8B7FB0FC-853E-354D-966B-6C13E1075C7F> /System/Library/PrivateFrameworks/  
SkyLight.framework/Versions/A/SkyLight

0x10a20f000 - 0x10a4befff SkyLightOriginal (340.54) <90EB1C2E-B264-3EC4-  
AF7F-CDE7E7585746> /System/Library/PrivateFrameworks/SkyLight.framework/Versions/  
A/SkyLightOriginal

0x10a5ab000 - 0x10a5abfff com.apple.CoreDisplay (101.3 - 108.11) <128CD253-  
F25A-3B40-A197-342C6447C59E> /System/Library/Frameworks/CoreDisplay.framework/  
Versions/A/CoreDisplay

0x10a5bb000 - 0x10a6a2ff7 CoreDisplayOriginal (108.11.1)

<EED23133-73D8-3823-80D8-73912F4066FF> /System/Library/Frameworks/  
CoreDisplay.framework/Versions/A/CoreDisplayOriginal

0x10a6d5000 - 0x10a6dafff libCoreFSCache.dylib (176.7) <35163B64-B9F9-3371-  
B810-CB5C4BE91995> /System/Library/Frameworks/OpenGL.framework/Versions/A/  
Libraries/libCoreFSCache.dylib

0x10a6e9000 - 0x10a6f8fff com.apple.opengl (17.3.1 - 17.3.1)  
<78BDC7C4-87AD-33CA-BFAC-A9CC5F605B5D> /System/Library/Frameworks/  
OpenGL.framework/Versions/A/OpenGL

0x10a709000 - 0x10a711fff libGFXShared.dylib (17.3.1) <902F535E-E411-3C3B-  
B980-0A7DB40EA5B7> /System/Library/Frameworks/OpenGL.framework/Versions/A/  
Libraries/libGFXShared.dylib

0x10a71c000 - 0x10a759fff libGLU.dylib (17.3.1) <C46D4335-4CE2-3FFB-930D-  
E48D7A3B5B4F> /System/Library/Frameworks/OpenGL.framework/Versions/A/Libraries/  
libGLU.dylib

0x10a76b000 - 0x10a776fff libGL.dylib (17.3.1) <87F8CCDB-2D7D-3B01-  
AA6F-6C7A4B1CA11E> /System/Library/Frameworks/OpenGL.framework/Versions/A/  
Libraries/libGL.dylib

0x10a78d000 - 0x10a7c7fef libGLImage.dylib (17.3.1) <B5464F1A-  
B936-3BEE-97CF-3806AD1A9E68> /System/Library/Frameworks/OpenGL.framework/  
Versions/A/Libraries/libGLImage.dylib

0x10a7d7000 - 0x10a7d9fff libCVMSPuginSupport.dylib (17.3.1) <4D6061EC-  
CFCF-3C0E-90E4-51644DC5F76A> /System/Library/Frameworks/OpenGL.framework/  
Versions/A/Libraries/libCVMSPuginSupport.dylib

0x10a7e1000 - 0x10a7e5fff libCoreVMClient.dylib (163.20) <B9A89373-  
BDCD-3003-9A82-6D73B930A122> /System/Library/Frameworks/OpenGL.framework/  
Versions/A/Libraries/libCoreVMClient.dylib

0x10a9e6000 - 0x10a9f0fff com.apple.DisplayServicesFW (3.1 - 380)  
<A1B8B6C2-5782-3D5C-B54E-48E96BB807DA> /System/Library/PrivateFrameworks/  
DisplayServices.framework/Versions/A/DisplayServices

0x10ae00000 - 0x10b532fff CursorAsset (340.54) <DFA4FB2B-6BE4-3792-B041-  
AE98B07ACE18> /System/Library/PrivateFrameworks/SkyLight.framework/Versions/A/  
Resources/CursorAsset

0x10e83a000 - 0x10e852fff TouchBarEvent.bundle (244.3) <A36D78BD-  
A093-3FE9-8BDA-3C4DAF0F112B> /System/Library/CoreServices/TouchBarEvent.bundle

0x10efb3000 - 0x10f149fff GLEngine (17.3.1) <538676A2-3E3F-3FC3-97D8-  
AB7D900F8D4D> /System/Library/Frameworks/OpenGL.framework/Versions/A/Resources/  
GLEngine.bundle/GLEngine

0x10f189000 - 0x10f2fbfff libGLProgrammability.dylib (17.3.1)  
<E3B2318B-5D3C-34E9-AECD-4A2D8E4B0616> /System/Library/Frameworks/  
OpenGL.framework/Versions/A/Libraries/libGLProgrammability.dylib

0x10f840000 - 0x110087fff com.apple.GeForceTeslaGLDriver (10.4.14 - 10.0.4)  
<944D7D25-6E6C-3843-8084-711E58F37C7D> /System/Library/Extensions/  
GeForceTeslaGLDriver.bundle/Contents/MacOS/GeForceTeslaGLDriver

0x1113d5000 - 0x111b52ff7 libclh.dylib (4.0.3 - 4.0.3) <B43A0E92-8713-3535-  
BA41-2879B0ADDE39> /System/Library/Extensions/GeForceTeslaGLDriver.bundle/  
Contents/MacOS/libclh.dylib

0x111bfff000 - 0x111c0aff7 libGPUSupport.dylib (17.3.1) <15947EC9-  
F197-3116-9A20-DC2B3E49ABF9> /System/Library/PrivateFrameworks/  
GPUSupport.framework/Versions/A/Libraries/libGPUSupport.dylib

0x1141ca000 - 0x11425893f dyld (732.8) <42C11B81-6928-369F-B03E-  
D57355572700> /usr/lib/dyld

0x7fff2da08000 - 0x7fff2da08fff com.apple.Accelerate (1.11 - Accelerate 1.11)  
<71987428-FB54-3F6E-8699-DCC8BAD7D01> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Accelerate

0x7fff2da20000 - 0x7fff2e2c7ff7 com.apple.vImage (8.1 - 524.2) <2224ED51-  
A4D6-39DB-AF19-2BCBC77BD750> /System/Library/Frameworks/Accelerate.framework/  
Versions/A/Frameworks/vImage.framework/Versions/A/vImage

0x7fff2e2c8000 - 0x7fff2e461fef libBLAS.dylib (1303) <05E4B3E9-88FC-3648-B993-  
D7E9C16ED92E> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libBLAS.dylib

0x7fff2e462000 - 0x7fff2e668fdf libBNNS.dylib (144.11.2) <CE00F56A-4630-3C5D-  
BBB8-C617A467BCAF> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libBNNS.dylib

0x7fff2e66a000 - 0x7fff2ea1efff libLAPACK.dylib (1303) <7E61073B-DB96-3AE8-  
B188-5FBB20479A8C> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libLAPACK.dylib

0x7fff2ea1f000 - 0x7fff2ea34ff8 libLinearAlgebra.dylib (1303)  
<98D92C47-3841-3C0B-91ED-5D81B6300616> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/  
libLinearAlgebra.dylib

0x7fff2ea35000 - 0x7fff2ea3aff3 libQuadrature.dylib (7) <826897ED-B7AD-33DC-  
B9CB-F9787784F312> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libQuadrature.dylib

0x7fff2ea3b000 - 0x7fff2eaabfff libSparse.dylib (103)  
<55467C29-2096-36AB-8A6D-5231A342809D> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/  
libSparse.dylib

0x7fff2eaac000 - 0x7fff2eabeff7 libSparseBLAS.dylib (1303) <841780B7-CE4F-3840-  
B740-D39AD6325BDD> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libSparseBLAS.dylib

0x7fff2eabf000 - 0x7fff2ec51fc7 libvDSP.dylib (735) <1D607D95-D349-39C4-B97A-

EFD73AC176A2> /System/Library/Frameworks/Accelerate.framework/Versions/A/  
Frameworks/vecLib.framework/Versions/A/libvDSP.dylib

0x7fff2ec52000 - 0x7fff2edcefff libvMisc.dylib (735)  
<CB8D49B6-7E89-37FC-947A-244B99DE8FC2> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/libvMisc.dylib

0x7fff2edcd000 - 0x7fff2edcdfff com.apple.Accelerate.vecLib (3.11 - vecLib 3.11)  
<4E0286A3-D4ED-3A93-A760-77533501A59C> /System/Library/Frameworks/  
Accelerate.framework/Versions/A/Frameworks/vecLib.framework/Versions/A/vecLib

0x7fff2ef72000 - 0x7fff2fd1eff9 com.apple.AppKit (6.9 - 1894) <1F4FBEF8-  
F3AC-31C2-BF04-381BC72E36D1> /System/Library/Frameworks/AppKit.framework/  
Versions/C/AppKit

0x7fff2fd6e000 - 0x7fff2fd6efff com.apple.ApplicationServices (48 - 50) <E6AA41A2-  
C79F-3304-9A61-5500561D876D> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/ApplicationServices

0x7fff2fd6f000 - 0x7fff2fddafff com.apple.ApplicationServices.ATS (377 - 493)  
<0EB214FD-E4D6-3045-A0A6-DCBCAE5F4165> /System/Library/Frameworks/  
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0x7fff2fe73000 - 0x7fff2feb1ffa libFontRegistry.dylib (274) <1A3CE39E-14E7-338E-  
B1E5-7FA79B9B0065> /System/Library/Frameworks/ApplicationServices.framework/  
Versions/A/Frameworks/ATS.framework/Versions/A/Resources/libFontRegistry.dylib

0x7fff2ff0c000 - 0x7fff2ff3bff7 com.apple.ATSUI (1.0 - 1)  
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ApplicationServices.framework/Versions/A/Frameworks/ATSUI.framework/Versions/A/  
ATSUI

0x7fff2ff3c000 - 0x7fff2ff40ff3 com.apple.ColorSyncLegacy (4.13.0 - 1)  
<EBA4F56C-3C82-3788-A168-3E77E116724B> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/ColorSyncLegacy.framework/  
Versions/A/ColorSyncLegacy

0x7fff2ffdb000 - 0x7fff30031ffa com.apple.HIServices (1.22 - 672)  
<C07B87F9-1D7B-3EC9-AC11-E97003ACDCD2> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/HIServices.framework/Versions/A/  
HIServices

0x7fff30032000 - 0x7fff30040fff com.apple.LangAnalysis (1.7.0 - 1.7.0) <C808B42C-  
C139-34C1-997F-032992D89762> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/LangAnalysis.framework/Versions/  
A/LangAnalysis

0x7fff30041000 - 0x7fff30086ff2 com.apple.print.framework.PrintCore (15 - 516)  
<43213BE5-C5E1-3AA8-8AFD-949AFF9FB2C5> /System/Library/Frameworks/  
ApplicationServices.framework/Versions/A/Frameworks/PrintCore.framework/Versions/A/  
PrintCore

0x7fff30087000 - 0x7fff30091fff com.apple.QD (4.0 - 413)  
<EFC01D3C-9012-3FCF-9149-457F530A43F0> /System/Library/Frameworks/



ApplicationServices.framework/Versions/A/Frameworks/QD.framework/Versions/A/QD

0x7fff30092000 - 0x7fff3009fff0 com.apple.speech.synthesis.framework (9.0.22 - 9.0.22) <CEA12143-A5DB-369B-B623-601CB9C9973B> /System/Library/Frameworks/ApplicationServices.framework/Versions/A/Frameworks/SpeechSynthesis.framework/Versions/A/SpeechSynthesis

0x7fff300a0000 - 0x7fff30180ffa com.apple.audio.toolbox.AudioToolbox (1.14 - 1.14) <83A9998E-0669-326F-BA80-350FC70912E6> /System/Library/Frameworks/AudioToolbox.framework/Versions/A/AudioToolbox

0x7fff30182000 - 0x7fff30182fff com.apple.audio.units.AudioUnit (1.14 - 1.14) <AF1C9FB7-8A3C-367A-B9AB-8BF267DF79A7> /System/Library/Frameworks/AudioUnit.framework/Versions/A/AudioUnit

0x7fff304f8000 - 0x7fff3086effe com.apple.CFNetwork (1111 - 1111) <642753C5-5D26-3794-9A4C-4F63F226C01A> /System/Library/Frameworks/CFNetwork.framework/Versions/A/CFNetwork

0x7fff308e9000 - 0x7fff30bddff9 com.apple.HIToolbox (2.1.1 - 992.1) <0EA6CBC4-33C5-3BA7-B37A-1C9D5F103796> /System/Library/Frameworks/Carbon.framework/Versions/A/Frameworks/HIToolbox.framework/Versions/A/HIToolbox

0x7fff30c28000 - 0x7fff30c2eff7 com.apple.speech.recognition.framework (6.0.3 - 6.0.3) <819268CF-2A9D-3321-A826-535CB1F1E694> /System/Library/Frameworks/Carbon.framework/Versions/A/Frameworks/SpeechRecognition.framework/Versions/A/SpeechRecognition

0x7fff30dc8000 - 0x7fff30dc8fff com.apple.Cocoa (6.11 - 23) <257CF015-7450-3FD1-AC41-AB55139F3036> /System/Library/Frameworks/Cocoa.framework/Versions/A/Cocoa

0x7fff30dd6000 - 0x7fff30fc1ff7 com.apple.ColorSync (4.13.0 - 3394.1.4.1) <32A1AEE9-C3AA-3535-9C72-D89955D2DE85> /System/Library/Frameworks/ColorSync.framework/Versions/A/ColorSync

0x7fff30fc2000 - 0x7fff310bbff7 com.apple.combine (1.0 - 132.10) <BE5FC3BA-0EB8-331A-94AA-5EC758A6505C> /System/Library/Frameworks/Combine.framework/Versions/A/Combine

0x7fff312ad000 - 0x7fff317bcffa com.apple.audio.CoreAudio (5.0 - 5.0) <88827CE9-4055-3E5F-B7C1-4E9314E6D05C> /System/Library/Frameworks/CoreAudio.framework/Versions/A/CoreAudio

0x7fff3180f000 - 0x7fff31846ff2 com.apple.CoreBluetooth (1.0 - 1) <7FBF1402-074C-3192-95AD-5F25FE5ECD8A> /System/Library/Frameworks/CoreBluetooth.framework/Versions/A/CoreBluetooth

0x7fff31847000 - 0x7fff31c31ff8 com.apple.CoreData (120 - 969.3) <F6CFDAA2-9676-3737-A5C2-21E666D6EE23> /System/Library/Frameworks/CoreData.framework/Versions/A/CoreData

0x7fff31d3d000 - 0x7fff321bcff7 com.apple.CoreFoundation (6.9 - 1671.15) <B888CEC3-88BC-3D1F-BDD7-A664AB66F0BA> /System/Library/Frameworks/CoreFoundation.framework/Versions/A/CoreFoundation

0x7fff321be000 - 0x7fff3285bff8 com.apple.CoreGraphics (2.0 - 1348.4.4.7)  
<A1919EE7-8591-3C1F-A71C-8C4551582D71> /System/Library/Frameworks/  
CoreGraphics.framework/Versions/A/CoreGraphics

0x7fff32869000 - 0x7fff32bc5ff2 com.apple.CoreImage (15.0.0 - 900.6)  
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CoreImage.framework/Versions/A/CoreImage

0x7fff33148000 - 0x7fff33148fff com.apple.CoreServices (1069.2 - 1069.2)  
<C5F7AABC-BADC-3331-A7D6-9B0A82A23E58> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/CoreServices

0x7fff33149000 - 0x7fff331ceff7 com.apple.AE (838 - 838)  
<7295ED82-7087-3602-9DCA-4FE205F6499C> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/Frameworks/AE.framework/Versions/A/AE

0x7fff331cf000 - 0x7fff334b0fff com.apple.CoreServices.CarbonCore (1217 - 1217)  
<7AA0ECB3-0993-3081-A9EC-0365EF72B24D> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/Frameworks/CarbonCore.framework/Versions/A/  
CarbonCore

0x7fff334b1000 - 0x7fff334feff1 com.apple.DictionaryServices (1.2 - 321)  
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CoreServices.framework/Versions/A/Frameworks/DictionaryServices.framework/Versions/A/  
DictionaryServices

0x7fff334ff000 - 0x7fff33507ff7 com.apple.CoreServices.FSEvents (1268.0.6 -  
1268.0.6) <78D2AB1A-9053-3D32-8C18-C1DD31FF9400> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/Frameworks/FSEvents.framework/Versions/A/FSEvents

0x7fff33508000 - 0x7fff33740ff1 com.apple.LaunchServices (1069.2 - 1069.2)  
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CoreServices.framework/Versions/A/Frameworks/LaunchServices.framework/Versions/A/  
LaunchServices

0x7fff33741000 - 0x7fff337d9ff1 com.apple.Metadata (10.7.0 - 2066.12)  
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CoreServices.framework/Versions/A/Frameworks/Metadata.framework/Versions/A/Metadata

0x7fff337da000 - 0x7fff33807ff7 com.apple.CoreServices.OSServices (1069.2 -  
1069.2) <2FECF3BA-B785-35E2-85E9-2A2267801AA4> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/Frameworks/OSServices.framework/Versions/A/  
OSServices

0x7fff33808000 - 0x7fff3386ffff com.apple.SearchKit (1.4.1 - 1.4.1) <0068BD72-  
CF2B-34E4-B461-002D5E56C31C> /System/Library/Frameworks/CoreServices.framework/  
Versions/A/Frameworks/SearchKit.framework/Versions/A/SearchKit

0x7fff33870000 - 0x7fff33894ffd com.apple.coreservices.SharedFileList (131 - 131)  
<61F62948-4109-38F0-BB91-5EBB6BEEAB10> /System/Library/Frameworks/  
CoreServices.framework/Versions/A/Frameworks/SharedFileList.framework/Versions/A/  
SharedFileList

0x7fff33bbc000 - 0x7fff33d70ffe com.apple.CoreText (643.1.0.2 - 643.1.0.2)

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CoreText.framework/Versions/A/CoreText

0x7fff33d71000 - 0x7fff33db5fff com.apple.CoreVideo (1.8 - 334.0)  
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CoreVideo.framework/Versions/A/CoreVideo

0x7fff33db6000 - 0x7fff33e43ff1 com.apple.framework.CoreWLAN (13.0 - 1448)  
<ACDBCA1F-3B08-3FC7-94CC-0EBC442AD0C9> /System/Library/Frameworks/  
CoreWLAN.framework/Versions/A/CoreWLAN

0x7fff340e9000 - 0x7fff340efff7 com.apple.DiskArbitration (2.7 - 2.7) <23104F29-  
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DiskArbitration.framework/Versions/A/DiskArbitration

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Foundation.framework/Versions/C/Foundation

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0x7fff349b9000 - 0x7fff34ad1ffd com.apple.Bluetooth (7.0.0 - 7.0.0f8)  
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IOBluetooth.framework/Versions/A/IOBluetooth

0x7fff34b35000 - 0x7fff34bd8ffb com.apple.framework.IOKit (2.0.2 - 1726.11.1)  
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IOKit.framework/Versions/A/IOKit

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IOSurface.framework/Versions/A/IOSurface

0x7fff34c5d000 - 0x7fff34dbaff6 com.apple.ImageIO.framework (3.3.0 - 1972.3.4.5)  
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ImageIO.framework/Versions/A/ImageIO

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ImageIO.framework/Versions/A/Resources/libGIF.dylib

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ImageIO.framework/Versions/A/Resources/libJP2.dylib

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Resources/libJPEG.dylib

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ImageIO.framework/Versions/A/Resources/libPng.dylib

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ImageIO.framework/Versions/A/Resources/libRadiance.dylib

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ImageIO.framework/Versions/A/Resources/libTIFF.dylib

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Versions/A/Kerberos

0x7fff365af000 - 0x7fff365affff libHeimdalProxy.dylib (77) <51DB9CFB-808F-32E8-  
BB34-39F6702DBDED> /System/Library/Frameworks/Kerberos.framework/Versions/A/  
Libraries/libHeimdalProxy.dylib

0x7fff37155000 - 0x7fff37217ff1 com.apple.Metal (211.53 - 211.53)  
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Metal.framework/Versions/A/Metal

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MetalPerformanceShaders.framework/Frameworks/MPSCore.framework/Versions/A/  
MPSCore

0x7fff37271000 - 0x7fff372f7fe6 com.apple.MetalPerformanceShaders.MPSImage (1.0  
- 1) <144A9994-9AD3-340D-A890-C7F10DDEF489> /System/Library/Frameworks/  
MetalPerformanceShaders.framework/Frameworks/MPSImage.framework/Versions/A/  
MPSImage

0x7fff372f8000 - 0x7fff3731dff0 com.apple.MetalPerformanceShaders.MPSMatrix (1.0  
- 1) <6F07D520-B36C-38D5-810B-A95BA5F79B04> /System/Library/Frameworks/  
MetalPerformanceShaders.framework/Frameworks/MPSMatrix.framework/Versions/A/  
MPSMatrix

0x7fff3731e000 - 0x7fff37333ffc com.apple.MetalPerformanceShaders.MPSNDArray  
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MPSNDArray

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MetalPerformanceShaders.framework/Frameworks/MPSNeuralNetwork.framework/  
Versions/A/MPSNeuralNetwork

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A/MPSRayIntersector

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MetalPerformanceShaders.framework/Versions/A/MetalPerformanceShaders

0x7fff3842a000 - 0x7fff38436ffe com.apple.NetFS (6.0 - 4.0) <10ECF7E4-98A5-3751-  
B7AC-0AAAF0050777> /System/Library/Frameworks/NetFS.framework/Versions/A/NetFS

0x7fff38437000 - 0x7fff3857aff6 com.apple.Network (1.0 - 1)  
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Network.framework/Versions/A/Network

0x7fff3afa1000 - 0x7fff3aff9ff7 com.apple.opengl (3.5 - 3.5) <1874ACB3-DBF4-309A-  
A15D-ADB0C786C5B8> /System/Library/Frameworks/OpenCL.framework/Versions/A/  
OpenCL

0x7fff3affa000 - 0x7fff3b016fff com.apple.CFOpenDirectory (10.15 - 220.11.1)  
<6F4D018B-FA8B-35B2-8120-F8215DDA01CB> /System/Library/Frameworks/  
OpenDirectory.framework/Versions/A/Frameworks/CFOpenDirectory.framework/Versions/  
A/CFOpenDirectory

0x7fff3b017000 - 0x7fff3b022fff com.apple.OpenDirectory (10.15 - 220.11.1)  
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OpenDirectory.framework/Versions/A/OpenDirectory

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QuartzCore.framework/Versions/A/QuartzCore

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Security.framework/Versions/A/Security

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SecurityFoundation.framework/Versions/A/SecurityFoundation

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ServiceManagement.framework/Versions/A/ServiceManagement

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SystemConfiguration.framework/Versions/A/SystemConfiguration

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APFS.framework/Versions/A/APFS

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AggregateDictionary.framework/Versions/A/AggregateDictionary

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AmbientDisplay.framework/Versions/A/AmbientDisplay

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Apple80211.framework/Versions/A/Apple80211

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AppleFSCompression.framework/Versions/A/AppleFSCompression

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AppleGVACore.framework/Versions/A/AppleGVACore

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AppleIDAuthSupport.framework/Versions/A/AppleIDAuthSupport

0x7fff44f96000 - 0x7fff44fdefff com.apple.AppleJPEG (1.0 - 1)  
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AppleJPEG.framework/Versions/A/AppleJPEG

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AppleSauce.framework/Versions/A/AppleSauce

0x7fff45499000 - 0x7fff4549cfff com.apple.AppleSystemInfo (3.1.5 - 3.1.5)  
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AppleSystemInfo.framework/Versions/A/AppleSystemInfo

0x7fff45536000 - 0x7fff45545ffd com.apple.AssertionServices (1.0 - 223.11.1)  
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AssertionServices.framework/Versions/A/AssertionServices

0x7fff460cc000 - 0x7fff46307fff com.apple.audio.AudioToolboxCore (1.0 - 1104.15.1)  
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AudioToolboxCore.framework/Versions/A/AudioToolboxCore

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AuthKit.framework/Versions/A/AuthKit

0x7fff465d6000 - 0x7fff465dfff3 com.apple.coreservices.BackgroundTaskManagement  
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PrivateFrameworks/BackgroundTaskManagement.framework/Versions/A/  
BackgroundTaskManagement

0x7fff465e0000 - 0x7fff46681ff8 com.apple.backup.framework (1.11 - 1298.0.12)  
<5F4E8950-52AA-3B1F-B17C-69FBA940CD76> /System/Library/PrivateFrameworks/  
Backup.framework/Versions/A/Backup

0x7fff46682000 - 0x7fff46701fff com.apple.BaseBoard (460 - 460)  
<E2B2C09D-7CA3-3BCF-AE84-E636CBC139CB> /System/Library/PrivateFrameworks/  
BaseBoard.framework/Versions/A/BaseBoard

0x7fff46720000 - 0x7fff46726ffe com.apple.BezelServicesFW (336 - 336)  
<37138123-99F5-3874-B0FF-486465325C48> /System/Library/PrivateFrameworks/  
BezelServices.framework/Versions/A/BezelServices

0x7fff46801000 - 0x7fff4683dff7 com.apple.bom (14.0 - 219.1)  
<86A0EE62-9906-3085-B9B7-93C196526360> /System/Library/PrivateFrameworks/  
Bom.framework/Versions/A/Bom

0x7fff4827d000 - 0x7fff48286ff7 com.apple.CommonAuth (4.0 - 2.0)  
<BDE39131-6389-3243-9C4A-DBA165B8A2F9> /System/Library/PrivateFrameworks/  
CommonAuth.framework/Versions/A/CommonAuth

0x7fff4829a000 - 0x7fff482b1ff1 com.apple.commonutilities (8.0 - 900)  
<A64C20B3-6860-3CCA-BB89-E8B9B589282A> /System/Library/PrivateFrameworks/  
CommonUtilities.framework/Versions/A/CommonUtilities

0x7fff48db7000 - 0x7fff48dd6ff4 com.apple.analyticsd (1.0 - 1)  
<3C14ACAE-0E19-3589-8229-944F376C3E44> /System/Library/PrivateFrameworks/  
CoreAnalytics.framework/Versions/A/CoreAnalytics

0x7fff49320000 - 0x7fff49330ff3 com.apple.CoreEmoji (1.0 - 100)  
<9AB89183-635C-3859-9DC6-7BCE3A94D15E> /System/Library/PrivateFrameworks/  
CoreEmoji.framework/Versions/A/CoreEmoji

0x7fff4997c000 - 0x7fff499e6ff8 com.apple.CoreNLP (1.0 - 211) <8F08AEF6-  
A380-3811-BAF0-D80E7C84B5AD> /System/Library/PrivateFrameworks/  
CoreNLP.framework/Versions/A/CoreNLP

0x7fff49e4c000 - 0x7fff49e54ff8 com.apple.CorePhoneNumbers (1.0 - 1) <0C242322-  
DB33-3764-9B44-74FA00AA3702> /System/Library/PrivateFrameworks/  
CorePhoneNumbers.framework/Versions/A/CorePhoneNumbers

0x7fff4a59e000 - 0x7fff4a5c1fff com.apple.CoreSVG (1.0 - 129) <1716AD1F-  
A94F-309D-9598-C7B65F5965A0> /System/Library/PrivateFrameworks/  
CoreSVG.framework/Versions/A/CoreSVG

0x7fff4a5c2000 - 0x7fff4a5f5fff com.apple.CoreServicesInternal (446.4 - 446.4)  
<516D3C82-1CC5-3056-B56F-A8FD2FE662EC> /System/Library/PrivateFrameworks/  
CoreServicesInternal.framework/Versions/A/CoreServicesInternal

0x7fff4a5f6000 - 0x7fff4a624ff7 com.apple.CSSStore (1069.2 - 1069.2)  
<5E3C50AB-9C00-36F3-A986-CE033480CA8B> /System/Library/PrivateFrameworks/  
CoreServicesStore.framework/Versions/A/CoreServicesStore

0x7fff4ac3e000 - 0x7fff4ad6aff4 com.apple.coreui (2.1 - 606) <08A21870-C3C2-3442-  
A579-F12EC67D7449> /System/Library/PrivateFrameworks/CoreUI.framework/Versions/A/  
CoreUI

0x7fff4ad6b000 - 0x7fff4af09ffd com.apple.CoreUtils (6.0 - 600.30)  
<5D8E96F2-5EDB-33E3-92E9-EDC11F279A64> /System/Library/PrivateFrameworks/  
CoreUtils.framework/Versions/A/CoreUtils

0x7fff4b03d000 - 0x7fff4b050ff1 com.apple.CrashReporterSupport (10.13 - 15010)  
<94F94549-D6F8-35A5-8FEE-026E079C3B2C> /System/Library/PrivateFrameworks/

CrashReporterSupport.framework/Versions/A/CrashReporterSupport

0x7fff4b2bc000 - 0x7fff4b2cdffa com.apple.framework.DFRFoundation (1.0 - 244.3)  
<5D98DA1C-1A1F-306B-B5D3-47D61974613A> /System/Library/PrivateFrameworks/  
DFRFoundation.framework/Versions/A/DFRFoundation

0x7fff4b2ce000 - 0x7fff4b2d3fff com.apple.DSEExternalDisplay (3.1 - 380)  
<B4AF8876-4037-3F07-BA7D-443AD3A4E680> /System/Library/PrivateFrameworks/  
DSEExternalDisplay.framework/Versions/A/DSEExternalDisplay

0x7fff4b33c000 - 0x7fff4b3b7ff8 com.apple.datadetectorscore (8.0 - 659) <01C69537-  
D345-34D1-8893-94F3AAA6B739> /System/Library/PrivateFrameworks/  
DataDetectorsCore.framework/Versions/A/DataDetectorsCore

0x7fff4b442000 - 0x7fff4b59dfff com.apple.desktopservices (1.14 - 1281.0.2)  
<F89D1D78-6226-32D6-9CBC-1695A3B457EE> /System/Library/PrivateFrameworks/  
DesktopServicesPriv.framework/Versions/A/DesktopServicesPriv

0x7fff4cd7a000 - 0x7fff4d195ff9 com.apple.vision.FaceCore (4.3.0 - 4.3.0)  
<298DA6CC-F74E-3EA7-9FCF-EC9E71E51859> /System/Library/PrivateFrameworks/  
FaceCore.framework/Versions/A/FaceCore

0x7fff4d7f8000 - 0x7fff4d92fff4 libFontParser.dylib (277.2) <91E3DD75-1591-381C-  
BA72-F5023BA19955> /System/Library/PrivateFrameworks/FontServices.framework/  
libFontParser.dylib

0x7fff4d9c9000 - 0x7fff4d9d9ff6 libhvf.dylib (1.0 - \$  
[CURRENT\_PROJECT\_VERSION]) <BC77CDFE-7137-3700-81AB-ED812743F5D8> /  
System/Library/PrivateFrameworks/FontServices.framework/libhvf.dylib

0x7fff52545000 - 0x7fff5254bfff com.apple.GPUWrangler (4.1.46 - 4.1.46)  
<A003EAB8-8E5D-3078-9358-4C51412532B3> /System/Library/PrivateFrameworks/  
GPUWrangler.framework/Versions/A/GPUWrangler

0x7fff53932000 - 0x7fff53940ffb com.apple.GraphVisualizer (1.0 - 100.1)  
<6E7B93E6-6B1F-3198-B3F8-E4F61632E1F5> /System/Library/PrivateFrameworks/  
GraphVisualizer.framework/Versions/A/GraphVisualizer

0x7fff5395e000 - 0x7fff539a4fff com.apple.HDRProcessing (1.58.0 - 1.58.0)  
<C4E13AD4-631D-3609-BEEE-2DF753669E2D> /System/Library/PrivateFrameworks/  
HDRProcessing.framework/Versions/A/HDRProcessing

0x7fff53ad3000 - 0x7fff53b46ffc com.apple.Heimdal (4.0 - 2.0) <169702C2-  
B210-3258-947C-F8EE6B361C26> /System/Library/PrivateFrameworks/  
Heimdal.framework/Versions/A/Heimdal

0x7fff55c4f000 - 0x7fff55c57ff5 com.apple.IOAccelerator (438.1.23 - 438.1.23)  
<16F79A0A-5CE0-36A0-9053-5BBB96B1DAB3> /System/Library/PrivateFrameworks/  
IOAccelerator.framework/Versions/A/IOAccelerator

0x7fff55c5a000 - 0x7fff55c70ff7 com.apple.IOPresentment (1.0 - 37)  
<C04FA14E-9FF0-3561-9ECA-B028E531885F> /System/Library/PrivateFrameworks/  
IOPresentment.framework/Versions/A/IOPresentment



0x7fff55ff7000 - 0x7fff56041fff com.apple.IconServices (436.1 - 436.1)  
<D109C662-7CAF-355D-8A45-65797DA293D9> /System/Library/PrivateFrameworks/  
IconServices.framework/Versions/A/IconServices

0x7fff561fd000 - 0x7fff56203ffc com.apple.InternationalSupport (1.0 - 44)  
<9BABC726-622F-3E35-A8C5-E722677A308C> /System/Library/PrivateFrameworks/  
InternationalSupport.framework/Versions/A/InternationalSupport

0x7fff56445000 - 0x7fff56465ff6 com.apple.security.KeychainCircle.KeychainCircle  
(1.0 - 1) <07895544-3389-3680-8BC1-F32DDA676FF3> /System/Library/  
PrivateFrameworks/KeychainCircle.framework/Versions/A/KeychainCircle

0x7fff565bc000 - 0x7fff56689ffd com.apple.LanguageModeling (1.0 - 212)  
<A9F41C84-E574-3624-8C00-60F228E0FF97> /System/Library/PrivateFrameworks/  
LanguageModeling.framework/Versions/A/LanguageModeling

0x7fff5668a000 - 0x7fff566d2ff7 com.apple.Lexicon-framework (1.0 - 70)  
<BEADF30C-37D3-3112-90DA-18A85406DBF3> /System/Library/PrivateFrameworks/  
Lexicon.framework/Versions/A/Lexicon

0x7fff566d9000 - 0x7fff566ddff6 com.apple.LinguisticData (1.0 - 349)  
<A392AD13-9AEB-31BB-A9ED-F29437CFBDB4> /System/Library/PrivateFrameworks/  
LinguisticData.framework/Versions/A/LinguisticData

0x7fff57b0e000 - 0x7fff57b5aff7 com.apple.spotlight.metadata.utilities (1.0 - 2066.12)  
<989018A3-4BD0-3FD1-9A2D-88FD3A521452> /System/Library/PrivateFrameworks/  
MetadataUtilities.framework/Versions/A/MetadataUtilities

0x7fff57b5b000 - 0x7fff57c29ff5 com.apple.gpusw.MetalTools (1.0 - 1) <5ADCCE88-  
B380-3B73-957B-12983017E979> /System/Library/PrivateFrameworks/  
MetalTools.framework/Versions/A/MetalTools

0x7fff57e59000 - 0x7fff57e76ffc com.apple.MobileKeyBag (2.0 - 1.0)  
<6B7EFE6E-5DBC-33B4-8F3E-12BC31A2EA2D> /System/Library/PrivateFrameworks/  
MobileKeyBag.framework/Versions/A/MobileKeyBag

0x7fff580dd000 - 0x7fff5810bff7 com.apple.MultitouchSupport.framework (3400.35 -  
3400.35) <C73D6E66-5FE9-3113-96DB-AF12AAC6B77E> /System/Library/  
PrivateFrameworks/MultitouchSupport.framework/Versions/A/MultitouchSupport

0x7fff5857d000 - 0x7fff58587fff com.apple.NetAuth (6.2 - 6.2)  
<90F9ADF4-8A9C-3603-8F55-24F8C472430B> /System/Library/PrivateFrameworks/  
NetAuth.framework/Versions/A/NetAuth

0x7fff58f73000 - 0x7fff58fbfff7 com.apple.OTSVG (1.0 - 643.1.0.2)  
<315F5289-6294-3B4E-83D1-56C502F564F8> /System/Library/PrivateFrameworks/  
OTSVG.framework/Versions/A/OTSVG

0x7fff5a132000 - 0x7fff5a13dffe com.apple.PerformanceAnalysis (1.243 - 243)  
<304B1D73-9BD4-3CED-A241-0458C4AF7062> /System/Library/PrivateFrameworks/  
PerformanceAnalysis.framework/Versions/A/PerformanceAnalysis

0x7fff5a13e000 - 0x7fff5a166fff com.apple.persistentconnection (1.0 - 1.0)  
<DBD9FD74-9F17-358B-A7E9-58B965A6E16C> /System/Library/PrivateFrameworks/

PersistentConnection.framework/Versions/A/PersistentConnection

0x7fff5ca58000 - 0x7fff5ca71fff com.apple.ProtocolBuffer (1 - 274.20.7.15.1)  
<9CD0E8B7-F38D-35F3-B68B-C18AA5CDB993> /System/Library/PrivateFrameworks/  
ProtocolBuffer.framework/Versions/A/ProtocolBuffer

0x7fff5cebf000 - 0x7fff5cee8ff9 com.apple.RemoteViewServices (2.0 - 148)  
<C5D8E2F3-646D-37C8-B250-C97B5058E260> /System/Library/PrivateFrameworks/  
RemoteViewServices.framework/Versions/A/RemoteViewServices

0x7fff5d04b000 - 0x7fff5d086ff7 com.apple.RunningBoardServices (1.0 - 223.11.1)  
<E9784D23-1EA5-3820-99C4-3B4474C803C5> /System/Library/PrivateFrameworks/  
RunningBoardServices.framework/Versions/A/RunningBoardServices

0x7fff5ead4000 - 0x7fff5ebf5ff5 com.apple.Sharing (1476 - 1476)  
<AD1D84E5-6728-3B38-AC15-2C3822F4747C> /System/Library/PrivateFrameworks/  
Sharing.framework/Versions/A/Sharing

0x7fff6072e000 - 0x7fff6073bfff com.apple.SpeechRecognitionCore (6.0.85 - 6.0.85)  
<95F62538-2541-3D92-8171-D49D4071A4BB> /System/Library/PrivateFrameworks/  
SpeechRecognitionCore.framework/Versions/A/SpeechRecognitionCore

0x7fff61218000 - 0x7fff61228ff3 com.apple.TCC (1.0 - 1) <DCE1D8C7-7BEB-3201-  
A0E5-38F012E6B1BC> /System/Library/PrivateFrameworks/TCC.framework/Versions/A/  
TCC

0x7fff61712000 - 0x7fff617d9ff4 com.apple.TextureIO (3.10.9 - 3.10.9) <733D396B-  
AFB1-37F3-80E4-95F63A879849> /System/Library/PrivateFrameworks/  
TextureIO.framework/Versions/A/TextureIO

0x7fff6261f000 - 0x7fff62878ff8 com.apple.UIFoundation (1.0 - 658.1) <603A4D49-  
EEEC-3FE1-9F65-49ACA14DC188> /System/Library/PrivateFrameworks/  
UIFoundation.framework/Versions/A/UIFoundation

0x7fff6509f000 - 0x7fff650a2ffe com.apple.dt.XCTTargetBootstrap (1.0 - 14805.2)  
<ED72AEE6-99F5-3A44-BDF9-50A5BD7B6719> /System/Library/PrivateFrameworks/  
XCTTargetBootstrap.framework/Versions/A/XCTTargetBootstrap

0x7fff6511b000 - 0x7fff65129ffd com.apple.audio.caulk (1.0 - 32.3) <7FBF3E20-  
D360-348B-8FC5-77A90444B552> /System/Library/PrivateFrameworks/caulk.framework/  
Versions/A/caulk

0x7fff65468000 - 0x7fff6546aff3 com.apple.loginsupport (1.0 - 1) <40974390-  
AFD7-3CEF-8B8D-6219BF916A4E> /System/Library/PrivateFrameworks/login.framework/  
Versions/A/Frameworks/loginsupport.framework/Versions/A/loginsupport

0x7fff6579c000 - 0x7fff657d1ff2 libAudioToolboxUtility.dylib (1104.15.1)  
<221386C3-366B-37A7-8A75-4176678F97AA> /usr/lib/libAudioToolboxUtility.dylib

0x7fff657d8000 - 0x7fff6580dff7 libCRFSuite.dylib (48) <45ADF347-A43F-3E95-  
BF26-94DC525DCC81> /usr/lib/libCRFSuite.dylib

0x7fff65810000 - 0x7fff6581aff3 libChineseTokenizer.dylib (34) <94E822B6-  
F850-33C5-888C-D5C8AE12122C> /usr/lib/libChineseTokenizer.dylib

0x7fff658a7000 - 0x7fff658a9fff libDiagnosticMessagesClient.dylib (112) <418D550B-  
C748-3D55-A6D5-0398E032F9F3> /usr/lib/libDiagnosticMessagesClient.dylib

0x7fff658ed000 - 0x7fff65aa4ff3 libFosl\_dynamic.dylib (100.4) <F5583DFD-  
E3A1-3D6A-8698-613F7FA119A0> /usr/lib/libFosl\_dynamic.dylib

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BFF5D21EB760> /usr/lib/libIOReport.dylib

0x7fff65bb1000 - 0x7fff65bb8fff libMatch.1.dylib (36) <AA3A44D7-268D-3B0A-  
AAD5-15090FF127D9> /usr/lib/libMatch.1.dylib

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<66742D2E-591A-32B2-8E92-4A54BEE843F6> /usr/lib/libSystem.B.dylib

0x7fff65dff000 - 0x7fff65e00fff libThaiTokenizer.dylib (3)  
<D2A89215-5281-310F-8C75-47F1E6A14F62> /usr/lib/libThaiTokenizer.dylib

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<0A685DAA-9FC6-3C87-83F1-1D11FC87C1F4> /usr/lib/libapple\_nghttp2.dylib

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<8636AE5A-0CBB-306C-8A4B-2E612D2D6B13> /usr/lib/libarchive.2.dylib

0x7fff65ed6000 - 0x7fff66003fc5 libate.dylib (2.0.9) <0D32F5BA-252D-3AF3-  
A2F4-176BC71239AC> /usr/lib/libate.dylib

0x7fff66007000 - 0x7fff66007ff3 libauto.dylib (187)  
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<F03FA480-0B22-3300-833F-03E88F43C504> /usr/lib/libbsm.0.dylib

0x7fff660d6000 - 0x7fff660e2fff libbz2.1.0.dylib (44) <8B522880-BEF8-3668-B785-  
F2AB4DE8F366> /usr/lib/libbz2.1.0.dylib

0x7fff660e3000 - 0x7fff66136fff libc++.1.dylib (800.6) <328FB687-2363-38B1-  
AC11-11736925C775> /usr/lib/libc++.1.dylib

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A269-1095F268F92F> /usr/lib/libcharset.1.dylib

0x7fff6614d000 - 0x7fff6615effb libcmph.dylib (8) <7DD1F726-F3E3-341A-  
AFAC-83E9A470883C> /usr/lib/libcmph.dylib

0x7fff6615f000 - 0x7fff66177fcf libcompression.dylib (87) <3D8825ED-7C2B-3EBC-  
B6D2-DE1C03E178CA> /usr/lib/libcompression.dylib

0x7fff66439000 - 0x7fff6644ffff libcoretls.dylib (167)

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<724B0181-4D9E-3D2F-B1AB-B4FD6A7BAB2C> /usr/lib/libcoretls\_cfhelpers.dylib

0x7fff66a0f000 - 0x7fff66a6efff libcups.2.dylib (483)  
<0C9BCEA5-628B-31E5-8609-00F811CAF505> /usr/lib/libcups.2.dylib

0x7fff66b7a000 - 0x7fff66b7aff3 libenergytrace.dylib (21) <E42B4AFF-3FAC-3CE4-A7BF-48621458B356> /usr/lib/libenergytrace.dylib

0x7fff66b7b000 - 0x7fff66b94ff7 libexpat.1.dylib (19) <A0E2F6F3-BFFA-3D59-872F-F093487F0B42> /usr/lib/libexpat.1.dylib

0x7fff66ba2000 - 0x7fff66ba4ff7 libfakelink.dylib (149)  
<FC5712CB-2188-3DAD-8DD4-CC3ECCA3F9A8> /usr/lib/libfakelink.dylib

0x7fff66bb3000 - 0x7fff66bb8fff libgermantok.dylib (24) <93E95178-E436-3611-A4A3-CB1D42CF4064> /usr/lib/libgermantok.dylib

0x7fff66bb9000 - 0x7fff66bbdff7 libheimdal-asn1.dylib (564.0.3)  
<51551E63-5AC6-30D3-B178-8BDA782C80EA> /usr/lib/libheimdal-asn1.dylib

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<1A648E74-25D4-3F9B-94C4-10B58AD091B7> /usr/lib/libiconv.2.dylib

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<88E47471-605C-3C86-871B-5D2F4628A936> /usr/lib/libicucore.A.dylib

0x7fff66f21000 - 0x7fff66f22fff liblangid.dylib (133) <78DF87EE-CDCE-3628-B239-56743169BC93> /usr/lib/liblangid.dylib

0x7fff66f23000 - 0x7fff66f3bffb liblzma.5.dylib (16) <D416FC97-76EC-38B5-A134-85DDFEA9D297> /usr/lib/liblzma.5.dylib

0x7fff66f53000 - 0x7fff66ffafff libmecab.dylib (879) <DD60E6AA-154E-3294-B2C0-3277B754F3BC> /usr/lib/libmecab.dylib

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0x7fff675bb000 - 0x7fff675eaff7 libncurses.5.4.dylib (57) <2AD2FDD9-846A-3A79-ADCC-008E8B227BD6> /usr/lib/libncurses.5.4.dylib

0x7fff67719000 - 0x7fff67b8bff6 libnetwork.dylib (1880.11.2) <CC02BF51-A056-3656-B735-E8CD0F4B7B15> /usr/lib/libnetwork.dylib

0x7fff67c29000 - 0x7fff67c5afd6 libobjc.A.dylib (779.1)  
<D681D734-2739-3D18-9DCB-9ECDA9D492BC> /usr/lib/libobjc.A.dylib

0x7fff67c6d000 - 0x7fff67c71fff libpam.2.dylib (25) <86317F48-E926-30AC-AE9F-ABB33543FBC8> /usr/lib/libpam.2.dylib

0x7fff67c74000 - 0x7fff67ca7ff7 libpcap.A.dylib (89.11.2) <65A8EBD2-F059-353B-9538-20D1314EFD89> /usr/lib/libpcap.A.dylib

0x7fff67d29000 - 0x7fff67d41ff7 libresolv.9.dylib (67) <06480BFC-6372-3225-B77A-F5AC9969DB64> /usr/lib/libresolv.9.dylib

0x7fff67d43000 - 0x7fff67d86ff7 libsandbox.1.dylib (1217.11.16) <B0829BE0-60A4-3AE0-AF9D-50EED4675AF6> /usr/lib/libsandbox.1.dylib

0x7fff67d9c000 - 0x7fff67f7dff7 libsqlite3.dylib (308.1) <5BEC5563-DECD-3A7D-A9A4-B7814F074D35> /usr/lib/libsqlite3.dylib

0x7fff681cc000 - 0x7fff681cffff libutil.dylib (57) <844B7887-09B3-3D12-ACDE-C4EB8F53DC62> /usr/lib/libutil.dylib

0x7fff681d0000 - 0x7fff681ddfff libxar.1.dylib (420) <E0D7C0A6-76EC-3682-A393-6596D4986269> /usr/lib/libxar.1.dylib

0x7fff681e3000 - 0x7fff682c5ff7 libxml2.2.dylib (32.12) <C0A87484-D334-3B50-8F8A-A9C63295F49E> /usr/lib/libxml2.2.dylib

0x7fff682c9000 - 0x7fff682f1fff libxslt.1.dylib (16.6) <CD9E79B0-159A-3055-B62A-57AB2B445912> /usr/lib/libxslt.1.dylib

0x7fff682f2000 - 0x7fff68304fff libz.1.dylib (76) <3FC3FC3E-ABF3-3167-9078-B54C952608B4> /usr/lib/libz.1.dylib

0x7fff683f7000 - 0x7fff687806bf libswiftCore.dylib (5.1 - 1100.8.259.70) <81C1D68F-314A-3E39-A6C9-C751D0092A70> /usr/lib/swift/libswiftCore.dylib

0x7fff68797000 - 0x7fff68799fff libswiftCoreFoundation.dylib (??? - ???) <4331DA0E-39B1-343E-8239-4BDA774A43C7> /usr/lib/swift/libswiftCoreFoundation.dylib

0x7fff6879a000 - 0x7fff687a8fff libswiftCoreGraphics.dylib (??? - ???) <C9971766-4AAC-3A85-9188-5C6950B793E4> /usr/lib/swift/libswiftCoreGraphics.dylib

0x7fff687a9000 - 0x7fff687acffb libswiftCoreImage.dylib (??? - ???) <6033ABDD-D4FA-3EF4-A48B-5E539D24E5C8> /usr/lib/swift/libswiftCoreImage.dylib

0x7fff689d1000 - 0x7fff689d7fff libswiftDarwin.dylib (??? - ???) <96BE921C-3144-37FD-A897-66262C666A70> /usr/lib/swift/libswiftDarwin.dylib

0x7fff689d8000 - 0x7fff689f1cdf libswiftDispatch.dylib (??? - ???) <F7E8CBB6-D733-3C25-89B8-1058C1076A7A> /usr/lib/swift/libswiftDispatch.dylib

0x7fff689f2000 - 0x7fff68b92337 libswiftFoundation.dylib (??? - ???) <BAD21164-B9D6-3C28-AA7F-A78C594CD58A> /usr/lib/swift/libswiftFoundation.dylib

0x7fff68ba1000 - 0x7fff68ba3fff libswiftIOKit.dylib (??? - ???) <BA30C54D-1F57-32E9-82D3-DAA9F82C5578> /usr/lib/swift/libswiftIOKit.dylib

0x7fff68bb9000 - 0x7fff68bc0067 libswiftMetal.dylib (??? - ???) <F7D6E32F-8ABD-3FCE-82DB-D051D2FA8143> /usr/lib/swift/libswiftMetal.dylib

0x7fff68c3e000 - 0x7fff68c41fef libswiftObjectiveC.dylib (??? - ???) <007E5E25-AB98-30D9-8975-0C76DC97BBFF> /usr/lib/swift/libswiftObjectiveC.dylib

0x7fff68c53000 - 0x7fff68c58fb7 libswiftQuartzCore.dylib (??? - ???) <E9C2C1CC-A3C1-35AF-A915-0D38C3AD1540> /usr/lib/swift/libswiftQuartzCore.dylib

0x7fff68d3e000 - 0x7fff68d40fff libswiftXPC.dylib (??? - ???) <C53D22CF-BE80-348B-A6EA-EB1E054A77C7> /usr/lib/swift/libswiftXPC.dylib

0x7fff68d41000 - 0x7fff68d47fef libswiftos.dylib (??? - ???) <E1D1DF91-E990-3892-94F8-EF7B56E45703> /usr/lib/swift/libswiftos.dylib

0x7fff68d69000 - 0x7fff68d6eff7 libcache.dylib (83) <8EC69760-6DAA-3068-9372-F1D554C548E5> /usr/lib/system/libcache.dylib

0x7fff68d6f000 - 0x7fff68d7aff7 libcommonCrypto.dylib (60165) <698BE754-137D-361D-B826-57B8DD969E4A> /usr/lib/system/libcommonCrypto.dylib

0x7fff68d7b000 - 0x7fff68d82fff libcompiler\_rt.dylib (101.2) <0BE7F119-C9C2-3612-A3F4-2336D4444476> /usr/lib/system/libcompiler\_rt.dylib

0x7fff68d83000 - 0x7fff68d8cff7 libcopyfile.dylib (166) <B5E73B1C-0BCF-33FE-80A1-D9E3BA3033D4> /usr/lib/system/libcopyfile.dylib

0x7fff68d8d000 - 0x7fff68e24fc3 libcorecrypto.dylib (866.0.10) <58344B13-CD10-3697-A516-6F5B06DD1EB7> /usr/lib/system/libcorecrypto.dylib

0x7fff68f3b000 - 0x7fff68f7cff0 libdispatch.dylib (1173.0.3) <F4260D89-F67D-30CB-AF61-7ED25CB687DB> /usr/lib/system/libdispatch.dylib

0x7fff68f7d000 - 0x7fff68fb2fff libdyld.dylib (732.8) <98960E27-A08B-36DA-A5CB-8538B2D6757E> /usr/lib/system/libdyld.dylib

0x7fff68fb3000 - 0x7fff68fb3ffb libkeymgr.dylib (30) <682B41BC-BDC2-38D5-8820-87099606FA12> /usr/lib/system/libkeymgr.dylib

0x7fff68fb4000 - 0x7fff68fc0ff7 libkxld.dylib (6153.11.26) <53BE9630-BDC8-3649-8709-7A4F86777B1A> /usr/lib/system/libkxld.dylib

0x7fff68fc1000 - 0x7fff68fc1ff7 liblaunch.dylib (1738.11.1) <7FE11F0D-65BC-3726-B1DD-E84F329193E0> /usr/lib/system/liblaunch.dylib

0x7fff68fc2000 - 0x7fff68fc7ff7 libmacho.dylib (949.0.1) <163DFE06-2FAD-3CBC-80EF-C38EED6AEA52> /usr/lib/system/libmacho.dylib

0x7fff68fc8000 - 0x7fff68fcaff3 libquarantine.dylib (110.0.4) <C8F39330-8CB5-30B0-8564-96453DCEFAD7> /usr/lib/system/libquarantine.dylib

0x7fff68fcb000 - 0x7fff68fccff7 libremovefile.dylib (48) <FB280185-B5ED-3F08-B08A-A378865C1398> /usr/lib/system/libremovefile.dylib

0x7fff68fcd000 - 0x7fff68fe4fff libsystem\_asl.dylib (377.0.1) <30CE9DAF-B1FA-3510-832B-F1CE19933ED7> /usr/lib/system/libsystem\_asl.dylib

0x7fff68fe5000 - 0x7fff68fe5fff libsystem\_blocks.dylib (74) <E0B8C825-E62B-357E-A2A0-13776F0A0F8C> /usr/lib/system/libsystem\_blocks.dylib

0x7fff68fe6000 - 0x7fff6906dff7 libsystem\_c.dylib (1353.11.2)

<2A5BFAFE-8214-3B35-AD46-C07A1A8B8941> /usr/lib/system/libsystem\_c.dylib

0x7fff6906e000 - 0x7fff69071fff libsystem\_configuration.dylib (1061.0.2)  
<56174463-22ED-337F-B0D4-94995DCDB9B7> /usr/lib/system/  
libsystem\_configuration.dylib

0x7fff69072000 - 0x7fff69075ff7 libsystem\_coreservices.dylib (114)  
<01695913-028E-3AE1-8D4E-2B2769109811> /usr/lib/system/libsystem\_coreservices.dylib

0x7fff69076000 - 0x7fff6907dfff libsystem\_darwin.dylib (1353.11.2)  
<4CE52C63-87AA-3C6D-899F-8C983E5FC061> /usr/lib/system/libsystem\_darwin.dylib

0x7fff6907e000 - 0x7fff69085ffb libsystem\_dnssd.dylib (1096.0.2) <DC7381E8-  
F09F-3441-8267-9B8F50A0EBA9> /usr/lib/system/libsystem\_dnssd.dylib

0x7fff69086000 - 0x7fff69087ffb libsystem\_featureflags.dylib (17) <DBCA4AA2-  
CA05-38D5-AB4B-BE0F3E09BB8B> /usr/lib/system/libsystem\_featureflags.dylib

0x7fff69088000 - 0x7fff690d5ff7 libsystem\_info.dylib (538) <9F9D6368-  
A11E-32F1-9BB5-C153F42EFED8> /usr/lib/system/libsystem\_info.dylib

0x7fff690d6000 - 0x7fff69102fff libsystem\_kernel.dylib (6153.11.26) <4CE9D54A-  
A975-348E-B878-EE74EDFC956B> /usr/lib/system/libsystem\_kernel.dylib

0x7fff69103000 - 0x7fff6914efe7 libsystem\_m.dylib (3178) <FE5E5748-6ACA-3AD2-  
AF9D-557EB9A3BD7E> /usr/lib/system/libsystem\_m.dylib

0x7fff6914f000 - 0x7fff69176fff libsystem\_malloc.dylib (283)  
<02925539-3CBA-39EB-BA6B-9A936CFA0BF8> /usr/lib/system/libsystem\_malloc.dylib

0x7fff69177000 - 0x7fff69184ff3 libsystem\_networkextension.dylib (1095.11.9)  
<8B5EE189-E3D1-31FD-878F-50286B6E7047> /usr/lib/system/  
libsystem\_networkextension.dylib

0x7fff69185000 - 0x7fff6918efff libsystem\_notify.dylib (241) <89381127-2A07-3F07-  
B865-358FACCF9102> /usr/lib/system/libsystem\_notify.dylib

0x7fff6918f000 - 0x7fff69198fe7 libsystem\_platform.dylib (220)  
<90E508E4-46D8-33FF-8552-DDAA079977A0> /usr/lib/system/libsystem\_platform.dylib

0x7fff69199000 - 0x7fff691a3fff libsystem\_pthread.dylib (416.11.1) <2EA6F95F-  
F264-30B6-8AF2-24197B5AED84> /usr/lib/system/libsystem\_pthread.dylib

0x7fff691a4000 - 0x7fff691a8ffb libsystem\_sandbox.dylib (1217.11.16) <51129CBB-  
BC46-37F1-A1B5-ECFA9530704D> /usr/lib/system/libsystem\_sandbox.dylib

0x7fff691a9000 - 0x7fff691abfff libsystem\_secinit.dylib (62.0.4)  
<A48D9AF3-75F2-3331-A0C8-0A23771F4AC7> /usr/lib/system/libsystem\_secinit.dylib

0x7fff691ac000 - 0x7fff691b3ffb libsystem\_symptoms.dylib (1238.0.2)  
<08E8CF75-5F77-3475-A48E-A01CBDF09173> /usr/lib/system/libsystem\_symptoms.dylib

0x7fff691b4000 - 0x7fff691caff2 libsystem\_trace.dylib (1147.0.3)  
<5836645E-9862-326D-AB3B-A19E76BE29B9> /usr/lib/system/libsystem\_trace.dylib

0x7fff691cc000 - 0x7fff691d1ffb libunwind.dylib (35.4)

<F5AE1D43-7C5F-3BA2-94D3-E769F82C0F61> /usr/lib/system/libunwind.dylib

0x7fff691d2000 - 0x7fff69206ff6 libxpc.dylib (1738.11.1)

<2E9076CD-6C0E-38B6-8403-B2DDCE125FBF> /usr/lib/system/libxpc.dylib

#### 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: 1030

thread\_create: 0

thread\_set\_state: 0

#### VM Region Summary:

ReadOnly portion of Libraries: Total=538.0M resident=0K(0%)

swapped\_out\_or\_unallocated=538.0M(100%)

Writable regions: Total=340.6M written=0K(0%) resident=0K(0%) swapped\_out=0K(0%)

unallocated=340.6M(100%)

#### VIRTUAL REGION

REGION TYPE	SIZE	COUNT (non-coalesced)	
=====	=====	=====	
Activity Tracing	256K	1	
CG backing stores	332K	22	
CG backing stores (reserved)	112K	1	reserved VM address space (unallocated)
CG framebuffers	256.0M	2	



CG framebuffers (reserved)	14.0M	2	reserved VM address space (unallocated)
CG image	240K	2	
CoreAnimation	364K	21	
Dispatch continuations	4096K	1	
Kernel Alloc Once	8K	1	
MALLOC	53.8M	84	
MALLOC guard page	32K	8	
Mach message (reserved)	12K	2	reserved VM address space (unallocated)
OpenGL GLSL	256K	3	
STACK GUARD	56.0M	6	
Stack	11.0M	6	
VM_ALLOCATE	9964K	26	
__CGSERVER	4K	1	
__DATA	41.4M	278	
__DATA_CONST	266K	18	
__FONT_DATA	4K	1	
__GLSLBUILTINS	5176K	1	
__LINKEDIT	350.7M	24	
__OBJC_RO	31.8M	1	
__OBJC_RW	1764K	2	
__SLSERVER	4K	1	
__TEXT	187.3M	269	
__UNICODE	564K	1	
mapped file	28.3M	4	
shared memory	108K	19	
=====	=====	=====	
TOTAL	1.0G	808	
TOTAL, minus reserved VM space	1.0G	808	

