

Please check this out:

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Translated Report (Full Report Below)  
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Process: pyrogenesis [4230]  
Path: /Applications/0 A.D. 28.app/Contents/MacOS/pyrogenesis  
Identifier: com.wildfiregames.play0ad  
Version: 0.28.0 (0.28.0)  
Code Type: ARM-64 (Native)  
Role: Foreground  
Parent Process: launchd [1]  
Coalition: com.wildfiregames.play0ad [274985]  
User ID: 501

Date/Time: 2026-05-23 16:10:48.0509 -0400  
Launch Time: 2026-05-23 16:04:48.9937 -0400  
Hardware Model: MacBookPro18,3  
OS Version: macOS 26.4 (25E246)  
Release Type: User

Crash Reporter Key: 208C4100-128D-8DDA-3E31-95A8FE0F34AD  
Incident Identifier: 8E6A2D01-1FC5-4F97-A676-0C3F723D6194

Sleep/Wake UUID: E9437F00-6B4E-40FE-A774-31EC2CE4CF5A

Time Awake Since Boot: 1900000 seconds  
Time Since Wake: 1021 seconds

System Integrity Protection: enabled

Triggered by Thread: 0 main, Dispatch Queue: com.apple.main-thread

Exception Type: EXC\_BAD\_ACCESS (SIGSEGV)  
Exception Subtype: KERN\_PROTECTION\_FAILURE at 0x000000016b277fe0  
Exception Message: Could not determine thread index for stack guard region  
Exception Codes: 0x0000000000000002, 0x000000016b277fe0

Termination Reason: Namespace SIGNAL, Code 11, Segmentation fault: 11  
Terminating Process: exc handler [4230]

VM Region Info: 0x16b277fe0 is in 0x167a74000-0x16b278000; bytes after start: 58736608 bytes before end:  
31

REGION TYPE	START - END	[ VSIZE] PRT/MAX SHRMOD	REGION DETAIL
MALLOC metadata	128e00000-128e04000	[ 16K]	rw-/rwx SM=PRV
GAP OF 0x3ec70000 BYTES			
---> Stack Guard	167a74000-16b278000	[ 56.0M]	---/rwx SM=PRV
Stack	16b278000-16ba74000	[ 8176K]	rw-/rwx SM=SHM

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

```
0 pyrogenesis 0x1051b16ec js::jit::JSJitFramelter::machineState() const + 4
1 pyrogenesis 0x1051b8264 js::jit::InlineFramelterator::resetOn(js::jit::JSJitFramelter
const*) + 72
2 pyrogenesis 0x104acc4c0 js::Framelter::settleOnActivation() + 608
3 pyrogenesis 0x104acc9ac js::Framelter::Framelter(JSContext*,
js::Framelter::DebuggerEvalOption) + 96
4 pyrogenesis 0x104b7362c js::SavedStacks::insertFrames(JSContext*,
JS::MutableHandle<js::SavedFrame*>, mozilla::Variant<JS::AllFrames, JS::MaxFrames,
JS::FirstSubsumedFrame>&&) + 204
5 pyrogenesis 0x104b7349c js::SavedStacks::saveCurrentStack(JSContext*,
JS::MutableHandle<js::SavedFrame*>, mozilla::Variant<JS::AllFrames, JS::MaxFrames,
JS::FirstSubsumedFrame>&&) + 92
6 pyrogenesis 0x104c864e0 JS::CaptureCurrentStack(JSContext*,
JS::MutableHandle<JSObject*>, mozilla::Variant<JS::AllFrames, JS::MaxFrames,
JS::FirstSubsumedFrame>&&) + 88
7 pyrogenesis 0x104c9d774 js::ErrorToException(JSContext*, JSErrorReport*,
JSErrorFormatString const* (*)(void*, unsigned int), void*) + 380
8 pyrogenesis 0x104aca134 js::ReportErrorNumberVA(JSContext*, js::IsWarning,
JSErrorFormatString const* (*)(void*, unsigned int), void*, unsigned int, js::ErrorArgumentsType, char*) + 268
9 pyrogenesis 0x104c79be4 JS_ReportErrorNumberASCII(JSContext*,
JSErrorFormatString const* (*)(void*, unsigned int), void*, unsigned int, ...) + 64
10 pyrogenesis 0x105ebf9c8 js::ReportOverRecursed(JSContext*) + 40
11 pyrogenesis 0x104a34344 js::InternalCallOrConstruct(JSContext*, JS::CallArgs const&,
js::MaybeConstruct, js::CallReason) + 712
12 pyrogenesis 0x104a34938 js::Call(JSContext*, JS::Handle<JS::Value>,
JS::Handle<JS::Value>, js::AnyInvokeArgs const&, JS::MutableHandle<JS::Value>, js::CallReason) + 244
13 pyrogenesis 0x104aa13c0 JS_CallFunctionValue(JSContext*, JS::Handle<JSObject*>,
JS::Handle<JS::Value>, JS::HandleValueArray const&, JS::MutableHandle<JS::Value>) + 288
14 pyrogenesis 0x1045265fc bool ScriptFunction::Call_<std::__1::basic_string<char,
std::__1::char_traits<char>, std::__1::allocator<char>>>(ScriptRequest const&, JS::Handle<JS::Value>, char
const*, std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>&) + 312
15 pyrogenesis 0x104525978 ScriptException::CatchPending(ScriptRequest const&) + 764
----- RECURSION 1, LEVEL 5094
16 pyrogenesis 0x10452662c bool ScriptFunction::Call_<std::__1::basic_string<char,
std::__1::char_traits<char>, std::__1::allocator<char>>>(ScriptRequest const&, JS::Handle<JS::Value>, char
const*, std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>&) + 360
17 pyrogenesis 0x104525978 ScriptException::CatchPending(ScriptRequest const&) + 764
----- RECURSION 1, LEVEL 5093
18 pyrogenesis 0x10452662c bool ScriptFunction::Call_<std::__1::basic_string<char,
std::__1::char_traits<char>, std::__1::allocator<char>>>(ScriptRequest const&, JS::Handle<JS::Value>, char
const*, std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>&) + 360
19 pyrogenesis 0x104525978 ScriptException::CatchPending(ScriptRequest const&) + 764
----- RECURSION 1, LEVEL 5092
-----
----- ELIDED 5088 LEVELS OF RECURSION THROUGH 0x104525978
ScriptException::CatchPending(ScriptRequest const&) + 764
-----
```

```

10196 pyrogenesis          0x10452662c bool ScriptFunction::Call_<std::__1::basic_string<char,
std::__1::char_traits<char>, std::__1::allocator<char>>>(ScriptRequest const&, JS::Handle<JS::Value>, char
const*, std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>&) + 360
10197 pyrogenesis          0x104525978 ScriptException::CatchPending(ScriptRequest const&)
+ 764
----- RECURSION 1, LEVEL 3
10198 pyrogenesis          0x10452662c bool ScriptFunction::Call_<std::__1::basic_string<char,
std::__1::char_traits<char>, std::__1::allocator<char>>>(ScriptRequest const&, JS::Handle<JS::Value>, char
const*, std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>&) + 360
10199 pyrogenesis          0x104525978 ScriptException::CatchPending(ScriptRequest const&)
+ 764
----- RECURSION 1, LEVEL 2
10200 pyrogenesis          0x10452662c bool ScriptFunction::Call_<std::__1::basic_string<char,
std::__1::char_traits<char>, std::__1::allocator<char>>>(ScriptRequest const&, JS::Handle<JS::Value>, char
const*, std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char>>&) + 360
10201 pyrogenesis          0x104525978 ScriptException::CatchPending(ScriptRequest const&)
+ 764
----- RECURSION 1, LEVEL 1
10202 pyrogenesis          0x10456ffc0 bool
ScriptFunction::Call_<ScriptFunction::IgnoreResult_t, JS::Rooted<JS::Value>>(ScriptRequest const&,
JS::Handle<JS::Value>, char const*, ScriptFunction::IgnoreResult_t&, JS::Rooted<JS::Value> const&) + 364
10203 pyrogenesis          0x1044fac20 CComponentTypeScript::HandleMessage(CMessage
const&, bool) + 168
10204 pyrogenesis          0x104487280 CComponentManager::PostMessage(unsigned int,
CMessage const&) + 268
10205 pyrogenesis          0x104444698 CCmpPosition::AdvertisePositionChanges() const +
244
10206 pyrogenesis          0x104442ce8 CCmpPosition::TurnTo(CFixed<int, 2147483647, 32,
15, 16, 65536>) + 80
10207 pyrogenesis          0x1044d6c9c bool
ScriptFunction::ToJSNative<&ICmpUnitMotion::FaceTowardsPoint(CFixed<int, 2147483647, 32, 15, 16,
65536>, CFixed<int, 2147483647, 32, 15, 16, 65536>), &ICmpUnitMotion*
ComponentGetter<ICmpUnitMotion>(ScriptRequest const&, JS::CallArgs&)>(JSContext*, unsigned int,
JS::Value*) + 412
10208 ???                  0x3816ec449880 ???
10209 ???                  0x3816ebee9434 ???
10210 ???                  0x3816ecb26f88 ???
10211 ???                  0x3816ec1af98c ???
10212 ???                  0x3816ec30d338 ???
10213 ???                  0x3816ebeeaff8 ???
----- RECURSION 2, LEVEL 1335
10214 ???                  0x3816ec007970 ???
10215 ???                  0x3816ebeeaff8 ???
----- RECURSION 2, LEVEL 1334
10216 ???                  0x3816ecb2426c ???
10217 ???                  0x3816ebe88448 ???
10218 ???                  0x3816ebeeaff8 ???
----- RECURSION 2, LEVEL 1333
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```

----- ELIDED 1329 LEVELS OF RECURSION THROUGH 0x3816ebbeeaff8 ???

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17909 ??? 0x3816ec3e604c ???  
17910 ??? 0x3816ebe88448 ???  
17911 ??? 0x3816eb9434 ???  
17912 ??? 0x3816ebeeabc0 ???  
17913 ??? 0x3816ec1af98c ???  
17914 ??? 0x3816ec30d338 ???  
17915 ??? 0x3816ec7ffba4 ???  
17916 ??? 0x3816ebe887bc ???  
17917 pyrogenesis 0x1051b31b8 js::jit::MaybeEnterJit(JSContext\*, js::RunState&) + 632  
17918 pyrogenesis 0x104a33eb4 js::RunScript(JSContext\*, js::RunState&) + 144  
17919 pyrogenesis 0x104a344dc js::InternalCallOrConstruct(JSContext\*, JS::CallArgs  
const&, js::MaybeConstruct, js::CallReason) + 1120  
17920 pyrogenesis 0x104a34938 js::Call(JSContext\*, JS::Handle<JS::Value>,  
JS::Handle<JS::Value>, js::AnyInvokeArgs const&, JS::MutableHandle<JS::Value>, js::CallReason) + 244  
17921 pyrogenesis 0x104aa13c0 JS\_CallFunctionValue(JSContext\*,  
JS::Handle<JSObject\*>, JS::Handle<JS::Value>, JS::HandleValueArray const&,  
JS::MutableHandle<JS::Value>) + 288  
17922 pyrogenesis 0x10456ffac bool  
ScriptFunction::Call\_<ScriptFunction::IgnoreResult\_t, JS::Rooted<JS::Value>>(ScriptRequest const&,  
JS::Handle<JS::Value>, char const\*, ScriptFunction::IgnoreResult\_t&, JS::Rooted<JS::Value> const&) + 344  
17923 pyrogenesis 0x1044fac20 CComponentTypeScript::HandleMessage(CMessage  
const&, bool) + 168  
17924 pyrogenesis 0x10448b7a0 CComponentManager::SendGlobalMessage(unsigned  
int, CMessage const&) + 348  
17925 pyrogenesis 0x10448fa5c bool  
ScriptFunction::ToJSNative<&CComponentManager::Script\_PostMessage(int, int, JS::Handle<JS::Value>),  
&CComponentManager\* ScriptInterface::ObjectFromCBData<CComponentManager>(ScriptRequest const&,  
JS::CallArgs&>(JSContext\*, unsigned int, JS::Value\*) + 256  
17926 ??? 0x3816ebf15738 ???  
17927 ??? 0x3816ebeeabc0 ???  
17928 ??? 0x3816ebee630 ???  
17929 ??? 0x3816ebeeabc0 ???  
17930 ??? 0x3816ebee630 ???  
17931 ??? 0x3816ebeeabc0 ???  
17932 ??? 0x3816eb9434 ???  
17933 ??? 0x3816ebeaaa60 ???  
17934 ??? 0x3816ebee9f1c ???  
17935 ??? 0x3816ec63a214 ???  
17936 ??? 0x3816ebe88448 ???  
17937 ??? 0x3816ebbeeaff8 ???

----- RECURSION 2, LEVEL 3

17938 ??? 0x3816ebeeabc0 ???  
17939 ??? 0x3816ebbeeaff8 ???

----- RECURSION 2, LEVEL 2

17940 ??? 0x3816ebeeabc0 ???  
17941 ??? 0x3816ebbeeaff8 ???

----- RECURSION 2, LEVEL 1

17942 ??? 0x3816ebeabc0 ???  
 17943 ??? 0x3816ec3deee0 ???  
 17944 ??? 0x3816ebe887bc ???  
 17945 pyrogenesis 0x1051b31b8 js::jit::MaybeEnterJit(JSContext\*, js::RunState&) + 632  
 17946 pyrogenesis 0x104a3406c js::RunScript(JSContext\*, js::RunState&) + 584  
 17947 pyrogenesis 0x104a344dc js::InternalCallOrConstruct(JSContext\*, JS::CallArgs  
 const&, js::MaybeConstruct, js::CallReason) + 1120  
 17948 pyrogenesis 0x104a34938 js::Call(JSContext\*, JS::Handle<JS::Value>,  
 JS::Handle<JS::Value>, js::AnyInvokeArgs const&, JS::MutableHandle<JS::Value>, js::CallReason) + 244  
 17949 pyrogenesis 0x104aa13c0 JS\_CallFunctionValue(JSContext\*,  
 JS::Handle<JSObject\*>, JS::Handle<JS::Value>, JS::HandleValueArray const&,  
 JS::MutableHandle<JS::Value>) + 288  
 17950 pyrogenesis 0x10456ffac bool  
 ScriptFunction::Call\_<ScriptFunction::IgnoreResult\_t, JS::Rooted<JS::Value>>(ScriptRequest const&,  
 JS::Handle<JS::Value>, char const\*, ScriptFunction::IgnoreResult\_t&, JS::Rooted<JS::Value> const&) + 344  
 17951 pyrogenesis 0x1044fac20 CComponentTypeScript::HandleMessage(CMessage  
 const&, bool) + 168  
 17952 pyrogenesis 0x1044873fc CComponentManager::BroadcastMessage(CMessage  
 const&) + 244  
 17953 pyrogenesis 0x104501dd8 CSimulation2Impl::UpdateComponents(CSimContext&,  
 CFixed<int, 2147483647, 32, 15, 16, 65536>, std::\_\_1::vector<SimulationCommand,  
 std::\_\_1::allocator<SimulationCommand>> const&) + 564  
 17954 pyrogenesis 0x104500b94 CSimulation2Impl::Update(int,  
 std::\_\_1::vector<SimulationCommand, std::\_\_1::allocator<SimulationCommand>> const&) + 472  
 17955 pyrogenesis 0x10450a324 CTurnManager::Update(float, unsigned long) + 1368  
 17956 pyrogenesis 0x10455f630 CGame::Update(double, bool) + 160  
 17957 pyrogenesis 0x104391328 RunGameOrAtlas(std::\_\_1::span<char const\* const,  
 18446744073709551615ul>) + 9284  
 17958 pyrogenesis 0x10438ee24 main + 44  
 17959 dyld 0x187267da4 start + 6992

Thread 1:: Task Mgr #0

0 libsystem\_kernel.dylib 0x1875e350c \_\_psynch\_cvwait + 8  
 1 libsystem\_pthread.dylib 0x187624128 \_pthread\_cond\_wait + 980  
 2 libc++.1.dylib 0x187539858  
 std::\_\_1::condition\_variable::wait(std::\_\_1::unique\_lock<std::\_\_1::mutex>&) + 32  
 3 pyrogenesis 0x1045e37a0 Threading::WorkerThread::RunUntilDeath() + 324  
 4 pyrogenesis 0x1045e5390 void\*  
 std::\_\_1::\_\_thread\_proxy[abi:v15006]<std::\_\_1::tuple<std::\_\_1::unique\_ptr<std::\_\_1::\_\_thread\_struct,  
 std::\_\_1::default\_delete<std::\_\_1::\_\_thread\_struct>>, void (\*)(Threading::WorkerThread\*),  
 Threading::WorkerThread\*>>(void\*) + 68  
 5 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
 6 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 2:: Task Mgr #1

0 libsystem\_kernel.dylib 0x1875e350c \_\_psynch\_cvwait + 8  
 1 libsystem\_pthread.dylib 0x187624128 \_pthread\_cond\_wait + 980  
 2 libc++.1.dylib 0x187539858  
 std::\_\_1::condition\_variable::wait(std::\_\_1::unique\_lock<std::\_\_1::mutex>&) + 32

```
3 pyrogenesis          0x1045e37a0 Threading::WorkerThread::RunUntilDeath() + 324
4 pyrogenesis          0x1045e5390 void*
std::__1::__thread_proxy[abi:v15006]<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct,
std::__1::default_delete<std::__1::__thread_struct>>, void (*)(Threading::WorkerThread*),
Threading::WorkerThread*>>(void*) + 68
5 libsystem_pthread.dylib      0x187623c58 _pthread_start + 136
6 libsystem_pthread.dylib      0x18761ec1c thread_start + 8
```

#### Thread 3:: Task Mgr #2

```
0 libsystem_kernel.dylib      0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib      0x187624128 _pthread_cond_wait + 980
2 libc++.1.dylib              0x187539858
std::__1::condition_variable::wait(std::__1::unique_lock<std::__1::mutex>&) + 32
3 pyrogenesis          0x1045e37a0 Threading::WorkerThread::RunUntilDeath() + 324
4 pyrogenesis          0x1045e5390 void*
std::__1::__thread_proxy[abi:v15006]<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct,
std::__1::default_delete<std::__1::__thread_struct>>, void (*)(Threading::WorkerThread*),
Threading::WorkerThread*>>(void*) + 68
5 libsystem_pthread.dylib      0x187623c58 _pthread_start + 136
6 libsystem_pthread.dylib      0x18761ec1c thread_start + 8
```

#### Thread 4:: Task Mgr #3

```
0 libsystem_kernel.dylib      0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib      0x187624128 _pthread_cond_wait + 980
2 libc++.1.dylib              0x187539858
std::__1::condition_variable::wait(std::__1::unique_lock<std::__1::mutex>&) + 32
3 pyrogenesis          0x1045e37a0 Threading::WorkerThread::RunUntilDeath() + 324
4 pyrogenesis          0x1045e5390 void*
std::__1::__thread_proxy[abi:v15006]<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct,
std::__1::default_delete<std::__1::__thread_struct>>, void (*)(Threading::WorkerThread*),
Threading::WorkerThread*>>(void*) + 68
5 libsystem_pthread.dylib      0x187623c58 _pthread_start + 136
6 libsystem_pthread.dylib      0x18761ec1c thread_start + 8
```

#### Thread 5:: Task Mgr #4

```
0 libsystem_kernel.dylib      0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib      0x187624128 _pthread_cond_wait + 980
2 libc++.1.dylib              0x187539858
std::__1::condition_variable::wait(std::__1::unique_lock<std::__1::mutex>&) + 32
3 pyrogenesis          0x1045e37a0 Threading::WorkerThread::RunUntilDeath() + 324
4 pyrogenesis          0x1045e5390 void*
std::__1::__thread_proxy[abi:v15006]<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct,
std::__1::default_delete<std::__1::__thread_struct>>, void (*)(Threading::WorkerThread*),
Threading::WorkerThread*>>(void*) + 68
5 libsystem_pthread.dylib      0x187623c58 _pthread_start + 136
6 libsystem_pthread.dylib      0x18761ec1c thread_start + 8
```

#### Thread 6:: Task Mgr #6

```
0 libsystem_kernel.dylib      0x1875e350c __psynch_cvwait + 8
```

```
1 libsystem_pthread.dylib          0x187624128 _pthread_cond_wait + 980
2 libc++.1.dylib                  0x187539858
std::__1::condition_variable::wait(std::__1::unique_lock<std::__1::mutex>&) + 32
3 pyrogenesis                      0x1045e37a0 Threading::WorkerThread::RunUntilDeath() + 324
4 pyrogenesis                      0x1045e5390 void*
std::__1::__thread_proxy[abi:v15006]<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct,
std::__1::default_delete<std::__1::__thread_struct>>, void (*) (Threading::WorkerThread*),
Threading::WorkerThread*>>(void*) + 68
5 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
6 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

#### Thread 7:: Task Mgr #5

```
0 libsystem_kernel.dylib          0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib          0x187624128 _pthread_cond_wait + 980
2 libc++.1.dylib                  0x187539858
std::__1::condition_variable::wait(std::__1::unique_lock<std::__1::mutex>&) + 32
3 pyrogenesis                      0x1045e37a0 Threading::WorkerThread::RunUntilDeath() + 324
4 pyrogenesis                      0x1045e5390 void*
std::__1::__thread_proxy[abi:v15006]<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct,
std::__1::default_delete<std::__1::__thread_struct>>, void (*) (Threading::WorkerThread*),
Threading::WorkerThread*>>(void*) + 68
5 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
6 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

#### Thread 8:: JS Helper

```
0 libsystem_kernel.dylib          0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib          0x187624128 _pthread_cond_wait + 980
2 pyrogenesis                      0x1053d76e8
mozilla::detail::ConditionVariableImpl::wait(mozilla::detail::MutexImpl&) + 36
3 pyrogenesis                      0x104ae1ce4 js::HelperThread::threadLoop(js::InternalThreadPool*) + 412
4 pyrogenesis                      0x104ae1ab8 js::HelperThread::ThreadMain(js::InternalThreadPool*,
js::HelperThread*) + 100
5 pyrogenesis                      0x104afbe08 js::detail::ThreadTrampoline<void (&)(js::InternalThreadPool*,
js::HelperThread*), js::InternalThreadPool*&, js::HelperThread*>::Start(void*) + 48
6 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
7 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

#### Thread 9:: JS Helper

```
0 libsystem_kernel.dylib          0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib          0x187624128 _pthread_cond_wait + 980
2 pyrogenesis                      0x1053d76e8
mozilla::detail::ConditionVariableImpl::wait(mozilla::detail::MutexImpl&) + 36
3 pyrogenesis                      0x104ae1ce4 js::HelperThread::threadLoop(js::InternalThreadPool*) + 412
4 pyrogenesis                      0x104ae1ab8 js::HelperThread::ThreadMain(js::InternalThreadPool*,
js::HelperThread*) + 100
5 pyrogenesis                      0x104afbe08 js::detail::ThreadTrampoline<void (&)(js::InternalThreadPool*,
js::HelperThread*), js::InternalThreadPool*&, js::HelperThread*>::Start(void*) + 48
6 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
7 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

Thread 10:: JS Helper

```
0 libsystem_kernel.dylib          0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib         0x187624128 _pthread_cond_wait + 980
2 pyrogenesis                     0x1053d76e8
mozilla::detail::ConditionVariableImpl::wait(mozilla::detail::MutexImpl&) + 36
3 pyrogenesis                     0x104ae1ce4 js::HelperThread::threadLoop(js::InternalThreadPool*) + 412
4 pyrogenesis                     0x104ae1ab8 js::HelperThread::ThreadMain(js::InternalThreadPool*,
js::HelperThread*) + 100
5 pyrogenesis                     0x104afbe08 js::detail::ThreadTrampoline<void (&)(js::InternalThreadPool*,
js::HelperThread*), js::InternalThreadPool*&, js::HelperThread*>::Start(void*) + 48
6 libsystem_pthread.dylib         0x187623c58 _pthread_start + 136
7 libsystem_pthread.dylib         0x18761ec1c thread_start + 8
```

Thread 11:: JS Helper

```
0 libsystem_kernel.dylib          0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib         0x187624128 _pthread_cond_wait + 980
2 pyrogenesis                     0x1053d76e8
mozilla::detail::ConditionVariableImpl::wait(mozilla::detail::MutexImpl&) + 36
3 pyrogenesis                     0x104ae1ce4 js::HelperThread::threadLoop(js::InternalThreadPool*) + 412
4 pyrogenesis                     0x104ae1ab8 js::HelperThread::ThreadMain(js::InternalThreadPool*,
js::HelperThread*) + 100
5 pyrogenesis                     0x104afbe08 js::detail::ThreadTrampoline<void (&)(js::InternalThreadPool*,
js::HelperThread*), js::InternalThreadPool*&, js::HelperThread*>::Start(void*) + 48
6 libsystem_pthread.dylib         0x187623c58 _pthread_start + 136
7 libsystem_pthread.dylib         0x18761ec1c thread_start + 8
```

Thread 12:: JS Helper

```
0 libsystem_kernel.dylib          0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib         0x187624128 _pthread_cond_wait + 980
2 pyrogenesis                     0x1053d76e8
mozilla::detail::ConditionVariableImpl::wait(mozilla::detail::MutexImpl&) + 36
3 pyrogenesis                     0x104ae1ce4 js::HelperThread::threadLoop(js::InternalThreadPool*) + 412
4 pyrogenesis                     0x104ae1ab8 js::HelperThread::ThreadMain(js::InternalThreadPool*,
js::HelperThread*) + 100
5 pyrogenesis                     0x104afbe08 js::detail::ThreadTrampoline<void (&)(js::InternalThreadPool*,
js::HelperThread*), js::InternalThreadPool*&, js::HelperThread*>::Start(void*) + 48
6 libsystem_pthread.dylib         0x187623c58 _pthread_start + 136
7 libsystem_pthread.dylib         0x18761ec1c thread_start + 8
```

Thread 13:: JS Helper

```
0 libsystem_kernel.dylib          0x1875e350c __psynch_cvwait + 8
1 libsystem_pthread.dylib         0x187624128 _pthread_cond_wait + 980
2 pyrogenesis                     0x1053d76e8
mozilla::detail::ConditionVariableImpl::wait(mozilla::detail::MutexImpl&) + 36
3 pyrogenesis                     0x104ae1ce4 js::HelperThread::threadLoop(js::InternalThreadPool*) + 412
4 pyrogenesis                     0x104ae1ab8 js::HelperThread::ThreadMain(js::InternalThreadPool*,
js::HelperThread*) + 100
```

5 pyrogenesis 0x104afbe08 js::detail::ThreadTrampoline<void (&)(js::InternalThreadPool\*,  
js::HelperThread\*), js::InternalThreadPool\*&, js::HelperThread\*>::Start(void\*) + 48  
6 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
7 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 14:: JS Helper

0 libsystem\_kernel.dylib 0x1875e350c \_\_psynch\_cvwait + 8  
1 libsystem\_pthread.dylib 0x187624128 \_pthread\_cond\_wait + 980  
2 pyrogenesis 0x1053d76e8  
mozilla::detail::ConditionVariableImpl::wait(mozilla::detail::MutexImpl&) + 36  
3 pyrogenesis 0x104ae1ce4 js::HelperThread::threadLoop(js::InternalThreadPool\*) + 412  
4 pyrogenesis 0x104ae1ab8 js::HelperThread::ThreadMain(js::InternalThreadPool\*,  
js::HelperThread\*) + 100  
5 pyrogenesis 0x104afbe08 js::detail::ThreadTrampoline<void (&)(js::InternalThreadPool\*,  
js::HelperThread\*), js::InternalThreadPool\*&, js::HelperThread\*>::Start(void\*) + 48  
6 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
7 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 15:: JS Helper

0 libsystem\_kernel.dylib 0x1875e350c \_\_psynch\_cvwait + 8  
1 libsystem\_pthread.dylib 0x187624128 \_pthread\_cond\_wait + 980  
2 pyrogenesis 0x1053d76e8  
mozilla::detail::ConditionVariableImpl::wait(mozilla::detail::MutexImpl&) + 36  
3 pyrogenesis 0x104ae1ce4 js::HelperThread::threadLoop(js::InternalThreadPool\*) + 412  
4 pyrogenesis 0x104ae1ab8 js::HelperThread::ThreadMain(js::InternalThreadPool\*,  
js::HelperThread\*) + 100  
5 pyrogenesis 0x104afbe08 js::detail::ThreadTrampoline<void (&)(js::InternalThreadPool\*,  
js::HelperThread\*), js::InternalThreadPool\*&, js::HelperThread\*>::Start(void\*) + 48  
6 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
7 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 16:: JS Wasm MachExceptionHandler

0 libsystem\_kernel.dylib 0x1875dfc34 mach\_msg2\_trap + 8  
1 libsystem\_kernel.dylib 0x1875f2574 mach\_msg2\_internal + 76  
2 libsystem\_kernel.dylib 0x1875e89c0 mach\_msg\_overwrite + 480  
3 libsystem\_kernel.dylib 0x1875dff0 mach\_msg + 24  
4 pyrogenesis 0x1053a62a4 MachExceptionHandlerThread() + 316  
5 pyrogenesis 0x1053a646c js::detail::ThreadTrampoline<void (&)(>::Start(void\*) + 44  
6 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
7 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 17:

Thread 18:: caulk.messenger.shared:17

0 libsystem\_kernel.dylib 0x1875dfbb0 semaphore\_wait\_trap + 8  
1 caulk 0x193f5ce00 caulk::semaphore::timed\_wait(double) + 224  
2 caulk 0x193f5ccac caulk::concurrent::details::worker\_thread::run() + 32  
3 caulk 0x193f5c94c 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*) + 96
4 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
5 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

Thread 19:: caulk.messenger.shared:high

```
0 libsystem_kernel.dylib          0x1875dfbb0 semaphore_wait_trap + 8
1 caulk                            0x193f5ce00 caulk::semaphore::timed_wait(double) + 224
2 caulk                            0x193f5ccac caulk::concurrent::details::worker_thread::run() + 32
3 caulk                            0x193f5c94c 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*) + 96
4 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
5 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

Thread 20:: caulk::deferred\_logger

```
0 libsystem_kernel.dylib          0x1875dfbb0 semaphore_wait_trap + 8
1 caulk                            0x193f5ce00 caulk::semaphore::timed_wait(double) + 224
2 caulk                            0x193f5ccac caulk::concurrent::details::worker_thread::run() + 32
3 caulk                            0x193f5c94c 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*) + 96
4 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
5 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

Thread 21:: com.apple.audio.IOThread.client

```
0 libsystem_kernel.dylib          0x1875dfbbc semaphore_wait_signal_trap + 8
1 caulk                            0x193f7a290
caulk::mach::semaphore::wait_signal_or_error(caulk::mach::semaphore&) + 36
2 CoreAudio                       0x18a96fa44 HALC_ProxyIOContext::IOWorkLoop() + 4952
3 CoreAudio                       0x18a96e050 invocation function for block in
HALC_ProxyIOContext::HALC_ProxyIOContext(unsigned int, unsigned int) + 172
4 CoreAudio                       0x18ab2c0b0 HALC_IOThread::Entry(void*) + 88
5 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
6 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

Thread 22:

```
0 libsystem_kernel.dylib          0x1875dfbb0 semaphore_wait_trap + 8
1 libdispatch.dylib               0x18746a490 _dispatch_sema4_wait + 28
2 libdispatch.dylib               0x18746ab20 _dispatch_semaphore_wait_slow + 132
3 pyrogenesis                     0x105a5cd98 (anonymous namespace)::EventThread(ALCcontext*) + 304
4 pyrogenesis                     0x105a5d5d8 void*
std::__1::__thread_proxy[abi:v15006]<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct,
std::__1::default_delete<std::__1::__thread_struct>>, int (*)(ALCcontext*), ALCcontext*>>>(void*) + 52
5 libsystem_pthread.dylib          0x187623c58 _pthread_start + 136
6 libsystem_pthread.dylib          0x18761ec1c thread_start + 8
```

Thread 23:: CSoundManagerWorker

0 libsystem\_kernel.dylib 0x1875e3308 \_\_semwait\_signal + 8  
1 libsystem\_c.dylib 0x1874bfcc0 nanosleep + 220  
2 pyrogenesis 0x104a256d4 SDL\_Delay\_REAL + 104  
3 pyrogenesis 0x1048a5b80 SDL\_Delay + 36  
4 pyrogenesis 0x1045e2178 CSoundManagerWorker::Run() + 192  
5 pyrogenesis 0x1045e2070

Threading::HandleExceptionsBase<&CSoundManagerWorker::RunThread(CSoundManagerWorker\*), void (\*) (CSoundManagerWorker\*)>::Wrapper(CSoundManagerWorker\*) + 128

6 pyrogenesis 0x1045e27d8 void\*  
std::\_\_1::\_\_thread\_proxy[abi:v15006]<std::\_\_1::tuple<std::\_\_1::unique\_ptr<std::\_\_1::\_\_thread\_struct, std::\_\_1::default\_delete<std::\_\_1::\_\_thread\_struct>>, void (\*) (CSoundManagerWorker\*), CSoundManagerWorker\*>>(void\*) + 68  
7 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
8 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 24:: CUserReporterWorker

0 libsystem\_kernel.dylib 0x1875e350c \_\_psynch\_cvwait + 8  
1 libsystem\_pthread.dylib 0x187624128 \_pthread\_cond\_wait + 980  
2 libc++.1.dylib 0x187539858  
std::\_\_1::condition\_variable::wait(std::\_\_1::unique\_lock<std::\_\_1::mutex>&) + 32  
3 pyrogenesis 0x1045eb784 CUserReporterWorker::Run() + 680  
4 pyrogenesis 0x1045eb420

Threading::HandleExceptionsBase<&CUserReporterWorker::RunThread(CUserReporterWorker\*), void (\*) (CUserReporterWorker\*)>::Wrapper(CUserReporterWorker\*) + 124

5 pyrogenesis 0x1045ecfe4 void\*  
std::\_\_1::\_\_thread\_proxy[abi:v15006]<std::\_\_1::tuple<std::\_\_1::unique\_ptr<std::\_\_1::\_\_thread\_struct, std::\_\_1::default\_delete<std::\_\_1::\_\_thread\_struct>>, void (\*) (CUserReporterWorker\*), CUserReporterWorker\*>>(void\*) + 68  
6 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
7 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 25:: SDLTimer

0 libsystem\_kernel.dylib 0x1875e350c \_\_psynch\_cvwait + 8  
1 libsystem\_pthread.dylib 0x187624128 \_pthread\_cond\_wait + 980  
2 pyrogenesis 0x1049fb144 SDL\_CondWaitTimeout\_REAL + 236  
3 pyrogenesis 0x1049fa9dc SDL\_SemWaitTimeout\_REAL + 236  
4 pyrogenesis 0x104946b08 SDL\_TimerThread + 692  
5 pyrogenesis 0x104946194 SDL\_RunThread + 88  
6 pyrogenesis 0x1049fa150 RunThread + 24  
7 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
8 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 26:

Thread 27:: com.apple.NSEventThread

0 libsystem\_kernel.dylib 0x1875dfc34 mach\_msg2\_trap + 8  
1 libsystem\_kernel.dylib 0x1875f2574 mach\_msg2\_internal + 76  
2 libsystem\_kernel.dylib 0x1875e89c0 mach\_msg\_overwrite + 480

3 libsystem\_kernel.dylib 0x1875dffc0 mach\_msg + 24  
4 CoreFoundation 0x1876e0d68 \_\_CFRunLoopServiceMachPort + 160  
5 CoreFoundation 0x1876df654 \_\_CFRunLoopRun + 1188  
6 CoreFoundation 0x1877b1be0 \_CFRunLoopRunSpecificWithOptions + 532  
7 AppKit 0x18bc2cc64 \_NSEventThread + 184  
8 libsystem\_pthread.dylib 0x187623c58 \_pthread\_start + 136  
9 libsystem\_pthread.dylib 0x18761ec1c thread\_start + 8

Thread 28:

Thread 29:

Thread 30:

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

x0: 0x000000016b278398 x1: 0x000000016b278398 x2: 0x0000000000000000 x3:  
0x0000000000000000  
x4: 0x0000000000000000 x5: 0x0000000000000001 x6: 0x000000016b278c50 x7:  
0x000000016b278d20  
x8: 0x000000016b278010 x9: 0x00003816ec449854 x10: 0x0000000000000000 x11:  
0x000000016b278a30  
x12: 0x0000000000000000 x13: 0x0000000000000018 x14: 0x00000007cf454af8 x15:  
0x0000183cc4d19560  
x16: 0x000000018762aae0 x17: 0x0000000000000024 x18: 0x0000000000000000 x19:  
0x000000016b278410  
x20: 0x000000016b278398 x21: 0x000000016b278388 x22: 0x000000016b278368 x23:  
0x000000016b2780d8  
x24: 0x000000016b278390 x25: 0x0000000000000001 x26: 0x0000000000000030b x27:  
0x0000000000000002  
x28: 0x000000016b278ae8 fp: 0x000000016b2780c0 lr: 0x00000001051b8264  
sp: 0x000000016b277f50 pc: 0x00000001051b16ec cpsr: 0x40001000  
far: 0x000000016b277fe0 esr: 0x92000047 (Data Abort) byte write Translation fault

Binary Images:

0x10438c000 - 0x108153fff com.wildfiregames.play0ad (0.28.0)  
<c8240dbe-477c-36a2-8c66-49aa55f53df4> /Applications/0 A.D. 28.app/Contents/MacOS/pyrogenesis  
0x1097ac000 - 0x1098e7fff com.apple.audio.units.Components (1.14)  
<dd44ad41-2925-3a96-ae04-9a68575a3549>  
/System/Library/Components/CoreAudio.component/Contents/MacOS/CoreAudio  
0x111ae0000 - 0x111afbfff com.apple.security.csparser (3.0)  
<94cbb39b-af04-3e75-85e6-d8cedf3ebd91>  
/System/Library/Frameworks/Security.framework/Versions/A/PlugIns/csparser.bundle/Contents/MacOS/cspars  
er  
0x111ac8000 - 0x111ad3fff libobjc-trampolines.dylib (\*) <a4dd56f1-375a-3540-844b-5e397f0b78b3>  
/usr/lib/libobjc-trampolines.dylib  
0x111e13c000 - 0x111e8c7fff com.apple.AGXMetalG13X (350.38)  
<95c14223-fa99-3e3d-9570-8e7862d86a54>  
/System/Library/Extensions/AGXMetalG13X.bundle/Contents/MacOS/AGXMetalG13X

```

0x11d72c000 - 0x11da6ffff libMoltenVK.dylib (*) <c8f5540c-45c9-3e9e-a4e3-edf49a918001>
/Applications/0 A.D. 28.app/Contents/Frameworks/libMoltenVK.dylib
0x0 - 0xffffffffffff ??? (*) <00000000-0000-0000-0000-000000000000> ???
0x187248000 - 0x1872edec7 dyld (*) <9f682dcf-340c-3bfa-bcdd-dd702f30313e> /usr/lib/dyld
0x18762a000 - 0x1876328f3 libsystem_platform.dylib (*) <d93ec420-f465-3a3a-916d-a04af9b023eb>
/usr/lib/system/libsystem_platform.dylib
0x1875df000 - 0x18761c28f libsystem_kernel.dylib (*) <51565b39-f595-3e96-a217-fef29815057a>
/usr/lib/system/libsystem_kernel.dylib
0x18761d000 - 0x187629b3b libsystem_pthread.dylib (*)
<e7a73008-0c09-31e3-9dd9-0c61652f0e85> /usr/lib/system/libsystem_pthread.dylib
0x187533000 - 0x1875c3ae7 libc++.1.dylib (*) <1e9541ec-c564-38cb-bed6-46f708e8d863>
/usr/lib/libc++.1.dylib
0x193f5b000 - 0x193f8403f com.apple.audio.caulk (1.0) <2bdd6811-ce34-3098-9833-10d9f74b7ffc>
/System/Library/PrivateFrameworks/caulk.framework/Versions/A/caulk
0x18a76e000 - 0x18af03e9f com.apple.audio.CoreAudio (5.0)
<72080a9b-8c5b-3e6d-8de7-0f86c3e698ec>
/System/Library/Frameworks/CoreAudio.framework/Versions/A/CoreAudio
0x187467000 - 0x1874ae23f libdispatch.dylib (*) <e17aa23f-db2a-3302-b14c-f6b08c540fcf>
/usr/lib/system/libdispatch.dylib
0x1874b2000 - 0x187532ef7 libsystem_c.dylib (*) <66ebd321-6899-3863-ba24-5cfc3076a0cb>
/usr/lib/system/libsystem_c.dylib
0x187663000 - 0x187bc0c5f com.apple.CoreFoundation (6.9)
<04941709-2330-3bf8-9213-6d33964db448>
/System/Library/Frameworks/CoreFoundation.framework/Versions/A/CoreFoundation
0x18bad2000 - 0x18d1f4abf com.apple.AppKit (6.9) <59e23bd5-d01e-305a-b96f-a5790356049a>
/System/Library/Frameworks/AppKit.framework/Versions/C/AppKit

```

External Modification Summary:

Calls made by other processes targeting this process:

```

task_for_pid: 0
thread_create: 0
thread_set_state: 0

```

Calls made by this process:

```

task_for_pid: 0
thread_create: 0
thread_set_state: 0

```

Calls made by all processes on this machine:

```

task_for_pid: 0
thread_create: 0
thread_set_state: 0

```

VM Region Summary:

```

ReadOnly portion of Libraries: Total=1.8G resident=0K(0%) swapped_out_or_unallocated=1.8G(100%)
Writable regions: Total=2.9G written=3252K(0%) resident=2932K(0%) swapped_out=320K(0%)
unallocated=2.9G(100%)

```

```

                VIRTUAL REGION
REGION TYPE          SIZE  COUNT (non-coalesced)
=====

```

Accelerate framework	128K	1
Activity Tracing	256K	1
CG image	2368K	4
ColorSync	16K	1
CoreAnimation	528K	33
CoreGraphics	32K	2
CoreUI image data	1408K	12
Foundation	16K	1
Kernel Alloc Once	32K	1
MALLOC	811.3M	224
MALLOC guard page	3216K	4
Memory Tag 22	64.0M	1
STACK GUARD	480K	30
Stack	35.9M	31
Stack Guard	56.0M	1
VM_ALLOCATE	2.0G	57
__AUTH	5975K	625
__AUTH_CONST	88.6M	1013
__CTF	824	1
__DATA	35.1M	966
__DATA_CONST	35.5M	1023
__DATA_DIRTY	8305K	868
__FONT_DATA	2352	1
__LINKEDIT	596.3M	7
__OBJC_RO	79.1M	1
__OBJC_RW	2597K	1
__TEXT	1.3G	1045
__TPRO_CONST	128K	2
mapped file	238.5M	26
page table in kernel	2932K	1
shared memory	1504K	19
=====	=====	=====
TOTAL	5.3G	6003

-----  
Full Report  
-----

```
{
  "app_name": "pyrogenesis",
  "timestamp": "2026-05-23 16:10:52.00-0400",
  "app_version": "0.28.0",
  "slice_uuid": "c8240dbe-477c-36a2-8c66-49aa55f53df4",
  "build_version": "0.28.0",
  "platform": 1,
  "bundleID": "com.wildfiregames.play0ad",
  "share_with_app_devs": 1,
  "is_first_party": 0,
  "bug_type": "309",
  "os_version": "macOS 26.4 (25E246)",
  "roots_installed": 0,
  "name": "pyrogenesis",
  "incident_id": "8E6A2D01-1FC5-4F97-A676-0C3F723D6194"
}
```

```
{
  "uptime" : 1900000,
  "procRole" : "Foreground",
  "version" : 2,
}
```

```
"userID" : 501,
"deployVersion" : 210,
"modelCode" : "MacBookPro18,3",
"coalitionID" : 274985,
"osVersion" : {
  "train" : "macOS 26.4",
  "build" : "25E246",
  "releaseType" : "User"
},
"captureTime" : "2026-05-23 16:10:48.0509 -0400",
"codeSigningMonitor" : 2,
"incident" : "8E6A2D01-1FC5-4F97-A676-0C3F723D6194",
"pid" : 4230,
"translated" : false,
"cpuType" : "ARM-64",
"procLaunch" : "2026-05-23 16:04:48.9937 -0400",
"procStartAbsTime" : 46984012435940,
"procExitAbsTime" : 46992628626725,
"procName" : "pyrogenesis",
"procPath" : "\Applications\0 A.D. 28.app\Contents\MacOS\pyrogenesis",
"bundleInfo" :
{"CFBundleShortVersionString":"0.28.0","CFBundleVersion":"0.28.0","CFBundleIdentifier":"com.wildfiregames.
play0ad"},
"storeInfo" : {"deviceIdentifiersForVendor":"4FA9B7B4-8F20-53ED-A101-7F84B8C9C10E","thirdParty":true},
"parentProc" : "launchd",
"parentPid" : 1,
"coalitionName" : "com.wildfiregames.play0ad",
"crashReporterKey" : "208C4100-128D-8DDA-3E31-95A8FE0F34AD",
"appleIntelligenceStatus" : {"state":"available"},
"developerMode" : 1,
"codeSigningID" : "com.wildfiregames.play0ad",
"codeSigningTeamID" : "P7YF26GARW",
"codeSigningFlags" : 570499857,
"codeSigningValidationCategory" : 6,
"codeSigningTrustLevel" : 4294967295,
"codeSigningAuxiliaryInfo" : 0,
"instructionByteStream" :
{"beforePC":"AQEAVAj1fpIJAUD56f0HNggBQPki8X2S7PvVfzS0NZTdNDWUVwMD0Q==","atPC":"9lcJqfRPC
qn9ewupVcMCKfQDAKrzAwiqCH0B8AhBRPkIAUD5qIMd+A=="},
"bootSessionUUID" : "7CDEFCCD-6F16-41FF-A214-7A2C83B80B5B",
"wakeTime" : 1021,
"sleepWakeUUID" : "E9437F00-6B4E-40FE-A774-31EC2CE4CF5A",
"sip" : "enabled",
"vmRegionInfo" : "0x16b277fe0 is in 0x167a74000-0x16b278000; bytes after start: 58736608 bytes before
end: 31\n REGION TYPE          START - END      [ VSIZE] PRTVMAX SHRMOD REGION
DETAIL\n MALLOC metadata      128e00000-128e04000 [ 16K] rw-Vrwx SM=PRV \n GAP OF
0x3ec70000 BYTES\n---> Stack Guard      167a74000-16b278000 [ 56.0M] ---Vrwx SM=PRV \n
Stack          16b278000-16ba74000 [ 8176K] rw-Vrwx SM=SHM "
```

```
"exception" : {"codes":"0x0000000000000002, 0x000000016b277fe0","message":"Could not determine thread
index for stack guard
region","rawCodes":[2,6092718048],"type":"EXC_BAD_ACCESS","signal":"SIGSEGV","subtype":"KERN_PRO
TECTION_FAILURE at 0x000000016b277fe0"},
"termination" : {"flags":0,"code":11,"namespace":"SIGNAL","indicator":"Segmentation fault: 11","byProc":"exc
handler","byPid":4230},
"vmregioninfo" : "0x16b277fe0 is in 0x167a74000-0x16b278000; bytes after start: 58736608 bytes before
end: 31\n REGION TYPE START - END [ VSIZE] PRTV/MAX SHRMOD REGION
DETAIL\n MALLOC metadata 128e00000-128e04000 [ 16K] rw-Vrwx SM=PRV \n GAP OF
0x3ec70000 BYTES\n--> Stack Guard 167a74000-16b278000 [ 56.0M] ---Vrwx SM=PRV \n
Stack 16b278000-16ba74000 [ 8176K] rw-Vrwx SM=SHM ",
"extMods" :
{"caller":{"thread_create":0,"thread_set_state":0,"task_for_pid":0},"system":{"thread_create":0,"thread_set_stat
e":0,"task_for_pid":0},"targeted":{"thread_create":0,"thread_set_state":0,"task_for_pid":0},"warnings":0},
"faultingThread" : 0,
"threads" :
[{"queue":"com.apple.main-thread","frames":[{"imageOffset":14833388,"symbol":"js::jit::JSJitFramelter::machin
eState()
const","symbolLocation":4,"imageIndex":0},{imageOffset":14860900,"symbol":"js::jit::InlineFramelterator::reset
On(js::jit::JSJitFramelter
const*)","symbolLocation":72,"imageIndex":0},{imageOffset":7603392,"symbol":"js::Framelter::settleOnActivati
on()","symbolLocation":608,"imageIndex":0},{imageOffset":7604652,"symbol":"js::Framelter::Framelter(JSCont
ext*",
js::Framelter::DebuggerEvalOption)","symbolLocation":96,"imageIndex":0},{imageOffset":8287788,"symbol":"j
s::SavedStacks::insertFrames(JSContext*, JS::MutableHandle<js::SavedFrame*>,
mozilla::Variant<JS::AllFrames, JS::MaxFrames,
JS::FirstSubsumedFrame>&&)","symbolLocation":204,"imageIndex":0},{imageOffset":8287388,"symbol":"js::S
avedStacks::saveCurrentStack(JSContext*, JS::MutableHandle<js::SavedFrame*>,
mozilla::Variant<JS::AllFrames, JS::MaxFrames,
JS::FirstSubsumedFrame>&&)","symbolLocation":92,"imageIndex":0},{imageOffset":9413856,"symbol":"JS::C
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namespace)::EventThread(ALCcontext*)","symbolLocation":304,"imageIndex":0},{imageOffset":23926232,"sy
mbol":"void*
std::__1::__thread_proxy[abi:v15006]<std::__1::tuple<std::__1::unique_ptr<std::__1::__thread_struct,
std::__1::default_delete<std::__1::__thread_struct>>, int(*)>(ALCcontext*),
ALCcontext*>>(void*)","symbolLocation":52,"imageIndex":0},{imageOffset":27736,"symbol":"_pthread_start","s
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Index":10}],"threadState":{"x":[{"value":14},{value":8589934595},{value":171798697235},{value":2858859081
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value":0},{value":0},{value":33495990448},{value":0},{value":1024},{value":33495990448},{value":1844674
4073709551580},{value":8399515632},{value":0},{value":33477578160},{value":33477578096},{value":184
46744073709551615},{value":33495990272},{value":0},{value":0},{value":6127988488},{value":429496729
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5},{\"value\":0},{\"value\":4431172200,\"symbolLocation\":1280,\"symbol\":\"(anonymous 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"base" : 4365795328,
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"size" : 64782336,
"uuid" : "c8240dbe-477c-36a2-8c66-49aa55f53df4",
"path" : "\Applications\VO A.D. 28.app\Contents\MacOS\pyrogenesis",
"name" : "pyrogenesis",
"CFBundleVersion" : "0.28.0"
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"arch" : "arm64e",
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"CFBundleIdentifier" : "com.apple.audio.units.Components",
"size" : 1294336,
"uuid" : "dd44ad41-2925-3a96-ae04-9a68575a3549",
"path" : "\System\Library\Components\CoreAudio.component\Contents\MacOS\CoreAudio",
"name" : "CoreAudio",
"CFBundleVersion" : "1.14"
},
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"source" : "P",
"arch" : "arm64e",
"base" : 4591583232,
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"CFBundleIdentifier" : "com.apple.security.csparser",
"size" : 114688,
"uuid" : "94cbb39b-af04-3e75-85e6-d8cedf3ebd91",
"path" :
"\System\Library\Frameworks\Security.framework\Versions\AV\PlugIns\csparser.bundle\Contents\MacOS\
csparser",
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"CFBundleVersion" : "61901.101.4"
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"base" : 4591484928,
"size" : 49152,
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"path" : "\usr\lib\libobjc-trampolines.dylib",
"name" : "libobjc-trampolines.dylib"
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{
"source" : "P",
"arch" : "arm64e",
"base" : 4799578112,
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"path" : "\System\Library\Extensions\AGXMetalG13X.bundle\Contents\MacOS\AGXMetalG13X",
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"CFBundleVersion" : "350.38"
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{
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"arch" : "arm64",
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"size" : 3424256,
"uuid" : "c8f5540c-45c9-3e9e-a4e3-edf49a918001",
"path" : "\Applications\0 A.D. 28.app\Contents\Frameworks\libMoltenVK.dylib",
"name" : "libMoltenVK.dylib"
},
{
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"base" : 0,
"uuid" : "00000000-0000-0000-0000-000000000000"
},
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"arch" : "arm64e",
"base" : 6562283520,
"size" : 679624,
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"path" : "\usr\lib\dylid",
"name" : "dylid"
},
{
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"arch" : "arm64e",
"base" : 6566354944,
"size" : 35060,
"uuid" : "d93ec420-f465-3a3a-916d-a04af9b023eb",
"path" : "\usr\lib\system\libsystem_platform.dylib",
"name" : "libsystem_platform.dylib"
},
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"source" : "P",
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"base" : 6566047744,
"size" : 250512,
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"name" : "libsystem_kernel.dylib"
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  "path" : "\usr\lib\system\libsystem_pthread.dylib",
  "name" : "libsystem_pthread.dylib"
},
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  "arch" : "arm64e",
  "base" : 6565343232,
  "size" : 592616,
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  "name" : "libc++.1.dylib"
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  "size" : 168000,
  "uuid" : "2bdd6811-ce34-3098-9833-10d9f74b7ffc",
  "path" : "\System\Library\PrivateFrameworks\caulk.framework\Versions\AV\caulk",
  "name" : "caulk"
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  "base" : 6618013696,
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  "CFBundleIdentifier" : "com.apple.audio.CoreAudio",
  "size" : 7954080,
  "uuid" : "72080a9b-8c5b-3e6d-8de7-0f86c3e698ec",
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  "CFBundleVersion" : "5.0"
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  "arch" : "arm64e",
  "base" : 6564507648,
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  "uuid" : "e17aa23f-db2a-3302-b14c-f6b08c540fcf",
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```

```

"name" : "libdispatch.dylib"
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"size" : 528120,
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"path" : "\usr\lib\system\libsystem_c.dylib",
"name" : "libsystem_c.dylib"
},
{
"source" : "P",
"arch" : "arm64e",
"base" : 6566588416,
"CFBundleShortVersionString" : "6.9",
"CFBundleIdentifier" : "com.apple.CoreFoundation",
"size" : 5626976,
"uuid" : "04941709-2330-3bf8-9213-6d33964db448",
"path" : "\System\Library\Frameworks\CoreFoundation.framework\Versions\AV\CoreFoundation",
"name" : "CoreFoundation",
"CFBundleVersion" : "4424.1.402"
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"source" : "P",
"arch" : "arm64e",
"base" : 6638346240,
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"CFBundleIdentifier" : "com.apple.AppKit",
"size" : 24259264,
"uuid" : "59e23bd5-d01e-305a-b96f-a5790356049a",
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"name" : "AppKit",
"CFBundleVersion" : "2685.50.120"
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"size" : 5978570752,
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},
"vmSummary" : "ReadOnly portion of Libraries: Total=1.8G resident=0K(0%)
swapped_out_or_unallocated=1.8G(100%)\nWritable regions: Total=2.9G written=3252K(0%)
resident=2932K(0%) swapped_out=320K(0%) unallocated=2.9G(100%)\n\n          VIRTUAL
REGION \nREGION TYPE                SIZE  COUNT (non-coalesced) \n=====
===== \nAccelerate framework           128K    1 \nActivity Tracing             256K    1
\nCG image                2368K    4 \nColorSync                 16K    1 \nCoreAnimation
528K   33 \nCoreGraphics             32K    2 \nCoreUI image data          1408K   12
\nFoundation                16K    1 \nKernel Alloc Once           32K    1 \nMALLOC

```

```

811.3M 224 \nMALLOC guard page 3216K 4 \nMemory Tag 22 64.0M 1
\nSTACK GUARD 480K 30 \nStack 35.9M 31 \nStack Guard
56.0M 1 \nVM_ALLOCATE 2.0G 57 \n__AUTH 5975K 625
\n__AUTH_CONST 88.6M 1013 \n__CTF 824 1 \n__DATA
35.1M 966 \n__DATA_CONST 35.5M 1023 \n__DATA_DIRTY 8305K 868
\n__FONT_DATA 2352 1 \n__LINKEDIT 596.3M 7 \n__OBJC_RO
79.1M 1 \n__OBJC_RW 2597K 1 \n__TEXT 1.3G 1045
\n__TPRO_CONST 128K 2 \nmapped file 238.5M 26 \npage table in kernel
2932K 1 \nshared memory 1504K 19 \n=====
\nTOTAL 5.3G 6003 \n",

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```

"legacyInfo" : {
  "threadTriggered" : {
    "name" : "main",
    "queue" : "com.apple.main-thread"
  }
},
"logWritingSignature" : "dff177d11ddd89dfd6b855d0bfcff2a5cf8eb54a",
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"roots_installed" : 0,
"trmStatus" : 1,
"trialInfo" : {
  "rollouts" : [
    {
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      "factorPackIds" : [
        "65a855f5f087695cfac03d1f"
      ],
      "deploymentId" : 240000267
    },
    {
      "rolloutId" : "64b21a7351cbb02ce3442e4e",
      "factorPackIds" : [
        "6647f0f7b6a75d3dc32993e7"
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      "deploymentId" : 240000042
    }
  ],
  "experiments" : [
  ]
}
}
}

```

Model: MacBookPro18,3, BootROM 18000.101.7, proc 8:6:2:0 processors, 32 GB, SMC  
 Graphics: Apple M1 Pro, Apple M1 Pro, Built-In  
 Display: Color LCD, 3024 x 1964 Retina, Main, MirrorOff, Online  
 Memory Module: LPDDR5, Hynix  
 AirPort: spairport\_wireless\_card\_type\_wifi (0x14E4, 0x4387), wl0: Jan 20 2026 17:44:15 version  
 20.140.13.0.8.7.224 FWID 01-b2a3fd0d

IO80211\_driverkit-1555.23 "IO80211\_driverkit-1555.23" Mar 5 2026 21:45:55

AirPort:

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

Network Service: Wi-Fi, AirPort, en0

Thunderbolt Bus: MacBook Pro, Apple Inc.

Thunderbolt Bus: MacBook Pro, Apple Inc.

Thunderbolt Bus: MacBook Pro, Apple Inc.