[AOSP] assigned

Fixed Bug P3







STATUS UPDATE No update yet. Edit

DESCRIPTION Ii...@xiaomi.com created issue #1

+ Add Hotlist

1. What happened

```
In android 11, the host dex2oatd64 gets aborted when compiling boot image
    dex2oatd64 E 12-30 12:34:58 46752 46752 image_writer.cc:2172] Image object without assigned bin slot: java.lang.reflect.InvocationTargetException 0x15580000
    dex2oatd64 E 12-30 12:34:58 46752 46752 image_writer.cc:2172] Image object without assigned bin slot: java.lang.Object[] 0x15580020 Type=RootJNILocal thread_
    \tt dex2oatd64~F~12-30~12:34:58~46752~46752~image\_writer.cc:2176]~Found~2~objects~without~assigned~bin~slots.
    Runtime aborting...
    All threads:
   DALVIK THREADS (1):
    "main" prio=5 tid=1 Runnable (still starting up)
       group="" sCount=0 dsCount=0 flags=0 obj=(ni1) self=0x56185db201e0
        sysTid=46752 nice=0 cgrp=user.slice sched=0/0 handle=0x7ffac94a1740
          state=R schedstat=( 20154329193 2124965744 957 ) utm=1871 stm=143 core=4 HZ=100
          stack=0x7ffd41588000-0x7ffd4158a000 stackSize=8176KB
       | held mutexes= "abort lock" "mutator lock"(shared held)
       native: #00 pc 000000000093fef6 out/soong/host/linux-x86/lib64/libartd.so (art::DumpNativeStack(std:: 1::basic ostream<char, std:: 1::char traits<char>
       native: art::DumpNativeStack(std::_1::basic_ostream<char, std::__1::char_traits<char> >&, int, BacktraceMap*, char const*, art::ArtMethod*, void*, bool)
                          art/runtime/native_stack_dump.cc:337
       native:
       native: #01 pc 00000000000a96c0c out/soong/host/linux-x86/lib64/libartd.so (art::Thread::DumpStack(std::_1::basic_ostream<char, std::_1::char_traits<char
                        art::Thread::DumpStack(std::__1::basic_ostream<char, std::__1::char_traits<char> >&, bool, BacktraceMap*, bool) const
       native:
       native:
                          art/runtime/thread.cc:2189
       native: #02 pc 00000000000abbc47 out/soong/host/linux-x86/lib64/libartd.so (art::DumpCheckpoint::Run(art::Thread*)+583)
       native: art::DumpCheckpoint::Run(art::Thread*)
                           art/runtime/thread list.cc:222
       native: \#03 \ pc \ 00000000000ab4b18 \ out/soong/host/linux-x86/lib64/libartd. so \ (art::ThreadList::RunCheckpoint(art::Closure*, \ art::Closure*) + 1000) + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 1000 + 100
                        art::ThreadList::RunCheckpoint(art::Closure*, art::Closure*)
       native:
       native:
                           art/runtime/thread list.cc:383
       native: #04 pc 00000000000ab4470 out/soong/host/linux-x86/lib64/libartd.so (art::ThreadList::Dump(std::__1::basic_ostream<char, std::__1::char_traits<char>
       native: \quad art:: ThreadList:: Dump(std::\_1::basic_ostream < char, \ std::\_1:: char\_traits < char > \&, \ bool)
       native:
                          art/runtime/thread list.cc:266
       native: \#05 \ pc \ 0000000000005f19a \ out/soong/host/linux-x86/lib64/libartd.so \ (art::AbortState::Dump(std::__1::basic_ostream<char, \ std::__1::char_traits<char>
       native: \quad art::AbortState::Dump(std::\_1::basic\_ostream < char, \ std::\_1::char\_traits < char > \&) \ constructions = (article article article
                          art/runtime/runtime.cc:534
       native:
       native: #06 pc 00000000004a417 out/soong/host/linux-x86/lib64/libartd.so (art::Runtime::Abort(char const*)+567)
       native:
                       art::Dumpable<art::AbortState>::Dump(std::__1::basic_ostream<char, std::__1::char_traits<char> >&) const
                         art/libartbase/base/dumpable.h:38
       native:
                        std::_1::basic_ostream<char, std::_1::char_traits<char> >& art::operator<< <art::AbortState>(std::_1::basic_ostream<char, std::_1::char_traits
       native:
       native:
                          art/libartbase/base/dumpable.h:49
                        art::Runtime::Abort(char const*)
       native:
       native:
                          art/runtime/runtime.cc:657
       native: #07 pc 000000000002f83c out/soong/host/linux-x86/lib64/libbase.so (android::base::SetAborter(std::_1::function<void (char const*)>&&)::$_3::__inv
       native: std::__1::__function::__value_func<void (char const*)>::operator()(char const*&&) const
       native:
                          external/libcxx/include/functional:1799
       native: std::__1::function<void (char const*)>::operator()(char const*) const
       native:
                          external/libcxx/include/functional:2347
       native:
                        operator()
                           system/core/base/logging.cpp:421
       native:
                          invoke
       native:
       native:
                          system/core/base/logging.cpp:421
       native: #08 pc 000000000002f069 out/soong/host/linux-x86/lib64/libbase.so (android::base::LogMessage::~LogMessage()+329)
       native:
                          ~LogMessage
                           system/core/base/logging.cpp:509
       native:
       native: #09 pc 000000000014c015 out/soong/host/linux-x86/bin/dex2oatd64 (art::linker::ImageWriter::LayoutHelper::VerifyImageBinSlotsAssigned()+6469)
       native:
                        art::linker::ImageWriter::LayoutHelper::VerifyImageBinSlotsAssigned()
                          art/dex2oat/linker/image writer.cc:2176
       native:
       native: \quad art:: linker:: Image Writer:: Calculate New Object Offsets ()
       native:
                          art/dex2oat/linker/image writer.cc:2457
       native: #11 pc 00000000012c3dl out/soong/host/linux-x86/bin/dex2oatd64 (art::linker::ImageWriter::PrepareImageAddressSpace(bool, art::TimingLogger*)+3457
                         art::linker::ImageWriter::PrepareImageAddressSpace(bool, art::TimingLogger*)
                          art/dex2oat/linker/image_writer.cc:297
       native:
       native: #12 pc 000000000000be09f out/soong/host/linux-x86/bin/dex2oatd64 (art::Dex20at::WriteOutputFiles( jobject*)+367)
```

```
native: art::Dex20at::WriteOutputFiles(_jobject*)
                                          art/dex2oat/dex2oat.cc:2274
      native: \ \#13 \ pc \ 00000000000006c15 \quad out/soong/host/linux-x86/bin/dex2oatd64 \ (main+3189)
      native: art::CompileImage(art::Dex20at&)
      native: art/dex2oat/dex2oat.cc:3158
      native: art::Dex2oat(int, char**)
                                     art/dex2oat/dex2oat.cc:3378
      native:
      native:
       native:
                                        art/dex2oat/dex2oat.cc:3388
      native: #14 pc 0000000000002083f /lib/x86_64-linux-gnu/libc-2.23.so (__libc_start_main+239)
      native: __libc_start_main
      native: ??:?
      native: \ \#15 \ pc \ 000000000005e538 \quad out/soong/host/linux-x86/bin/dex2oatd64 \ (???)
       (no managed stack frames)
Cmd line: out/soong/host/linux-x86/bin/dex2oatd64 -- avoid-storing-invocation -- write-invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/boot.invocation-to=out/soong/qssi/dex\_bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootjars/system/framework/arm/bootja
```

2. How to reproduce

- 1. find a framework image class, like "frameworks/base/core/java/android/util/apk/ApkSignatureVerifier.java"
- 2. add a reflection call which implemented by jni in static code block

```
--- a/core/java/android/util/apk/ApkSignatureVerifier.java
+++ b/core/java/android/util/apk/ApkSignatureVerifier.java
@@ -68,8 +68,23 @@ public class ApkSignatureVerifier {
     static {
            Class clazz = Class.forName("android.os.SystemProperties");
            java.lang.reflect.Method getMethod = clazz.getMethod("get", String.class);
            String value = (String)getMethod.invoke(null, "ro.build.type");
        } catch (Exception e) {
            // ignore
        }
    }
```

3. make framework-minus-apex -j8

3. How to fix

In unstarted runtime, reflection methods may cause TransactionAbortError which is the common case in the compiler. For example, most JNI methods are not allowed in unstarted runtime, and a

ht	tps://android-review.googlesource.com/c/platform/art/+/1535797
COMMENTS	
	am@google.com <am@google.com><u>#2</u></am@google.com>
	Assigned to am@google.com.
	Thank you for reporting this issue. We've shared this with our product and engineering teams and will continue to provide updates as more information becomes available.
	vm@google.com <vm@google.com><u>#3</u></vm@google.com>
	Marked as fixed, reassigned to vm@google.com.
	The fix has been submitted.