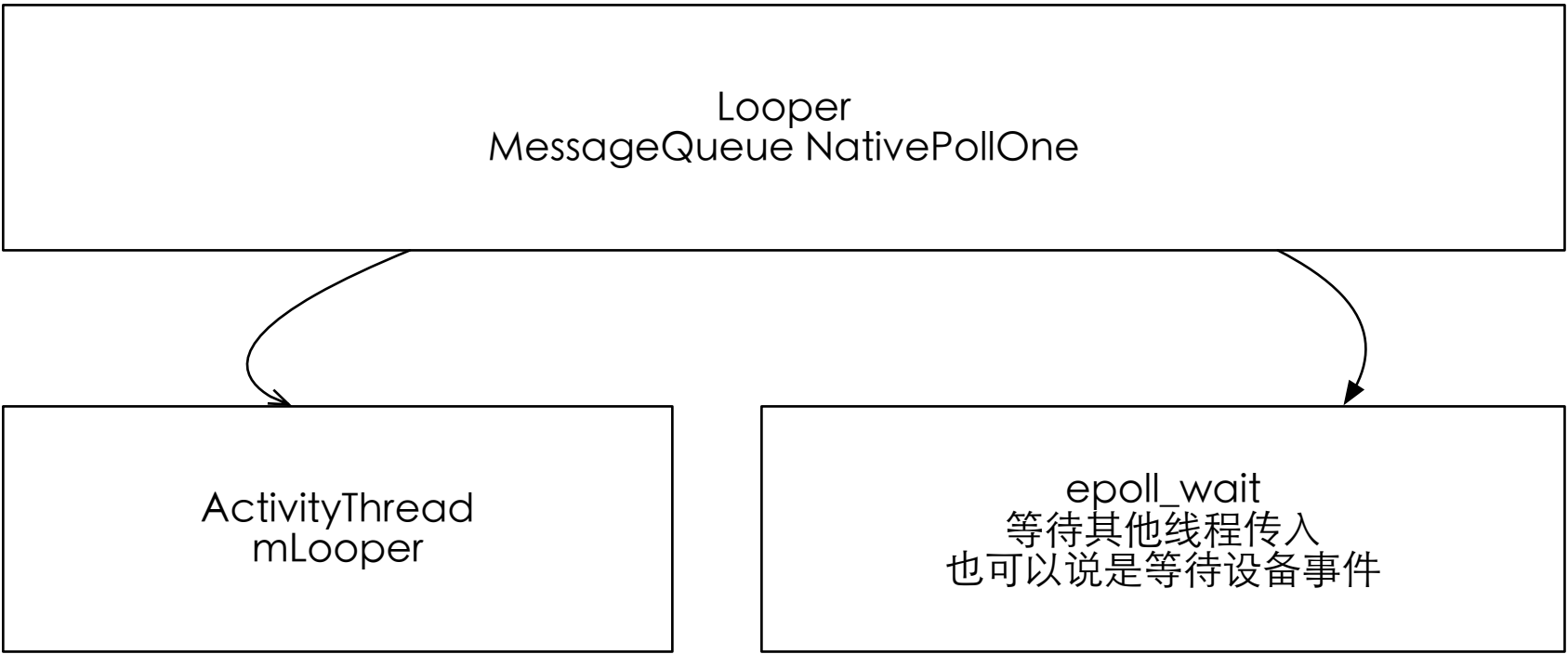
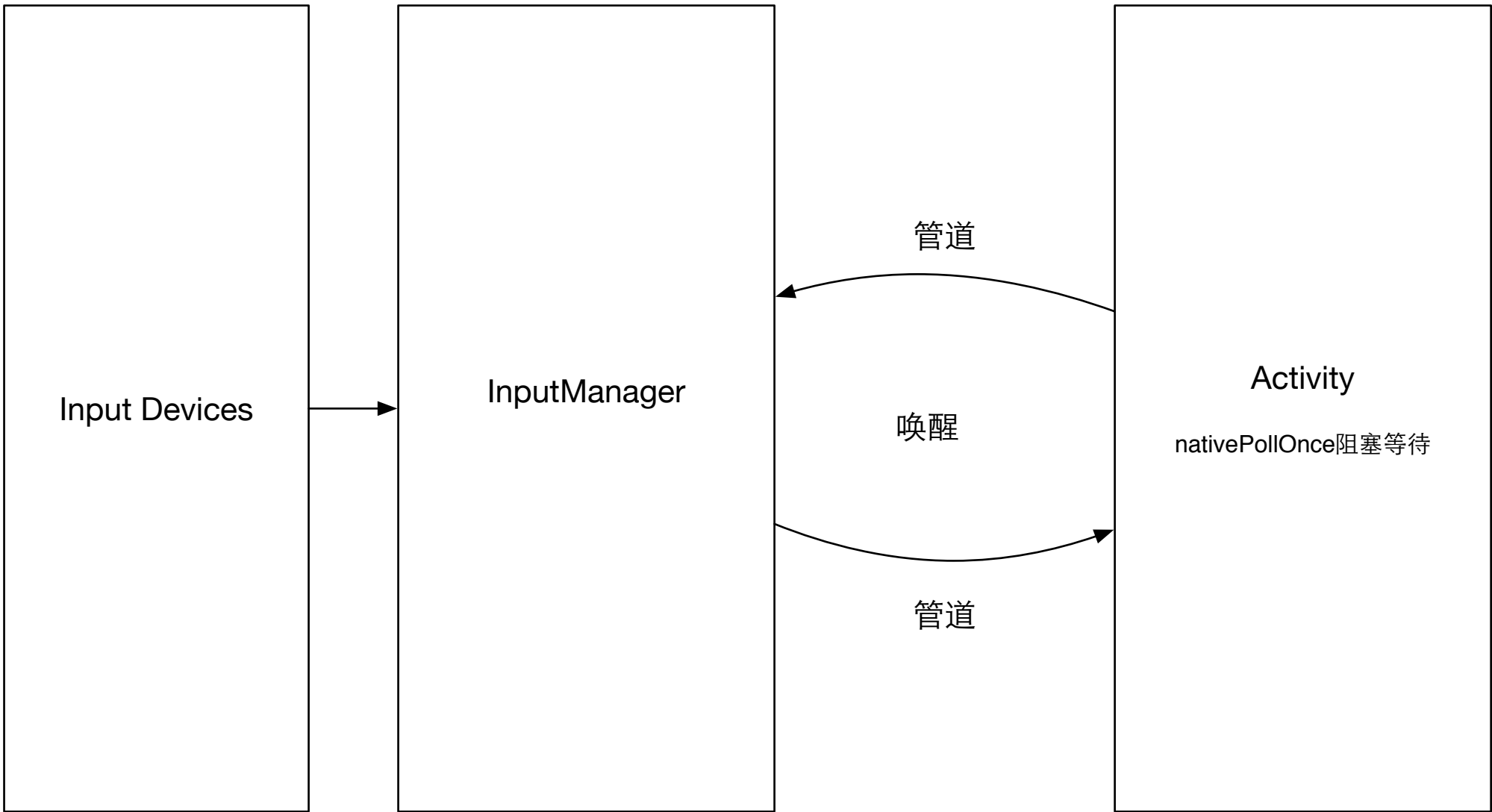


- 1、消息机制与触摸处理的机制是类似的最关键的时异步线程的唤醒。当然如果是自己就没必要了
- 2、`void` `Looper::wake()` { `nWrite` = `write(mWakeWritePipeFd, "W", 1);`}
- 3、记得是唤醒。不可能无缘无故就有办法访问另一个线程，只是由另一个线程向当前线程写东西，然后唤醒
- 4、Handler发送消息的实质是同过Looper来进行的，Looper与相应线程绑定，绑定哪个线程，唤醒哪个。



Handler发送消息（子线程向主线程发送）
先发送，然后唤醒，不是直接执行，窗口事件的监听是其他线程唤醒主线程

```
final Message next() {  
    int pendingIdleHandlerCount = -1; // -1 only during  
    first iteration  
    int nextPollTimeoutMillis = 0;  
  
    for (;;) {  
        if (nextPollTimeoutMillis != 0) {  
            Binder.flushPendingCommands();  
        }  
        nativePollOnce(mPtr, nextPollTimeoutMillis);  
    }  
}
```

Handler对应Thread于Looper如果一个线程中没有Looper，就不必有Handler

```
1. int pid = Process.start("android.app.ActivityThread",  
2.     mSimpleProcessManagement ? app.processName : null, uid, uid,  
3.     gids, debugFlags, null);
```

Handler是不是与触摸事件不太一致

```
1.  
2. enqueueMessage(Message msg, long when) {  
3.     .....  
4.  
5.     final boolean needWake;  
6.     synchronized (this) {  
7.         .....  
8.  
9.         msg.when = when;  
10.        //Log.d("MessageQueue", "Enqueing: " + msg);  
11.        Message p = mMessages;  
12.        if (p == null || when == 0 || when < p.when) {  
13.            msg.next = p;  
14.            mMessages = msg;  
15.            needWake = mBlocked; // new head, might need to wake up  
16.        } else {  
17.            Message prev = null;  
18.            while (p != null && p.when <= when) {  
19.                prev = p;  
20.                p = p.next;  
21.            }  
22.            msg.next = prev.next;  
23.            prev.next = msg;  
24.            needWake = false; // still waiting on head, no need to wake up  
25.        }  
26.  
27.    }  
28.    if (needWake) {  
29.        nativeWake(mPtr);  
30.  
31.    }  
32.}
```

可以看出其实和其他InputManager通知的原理是一样的

```
1. void Looper::wake() {  
2.     .....  
3.  
4.     ssize_t nWrite;  
5.     do {  
6.         nWrite = write(mWakeWritePipeFd, "W", 1);  
7.     } while (nWrite == -1 && errno == EINTR);  
8.  
9.     .....  
10. }
```

