



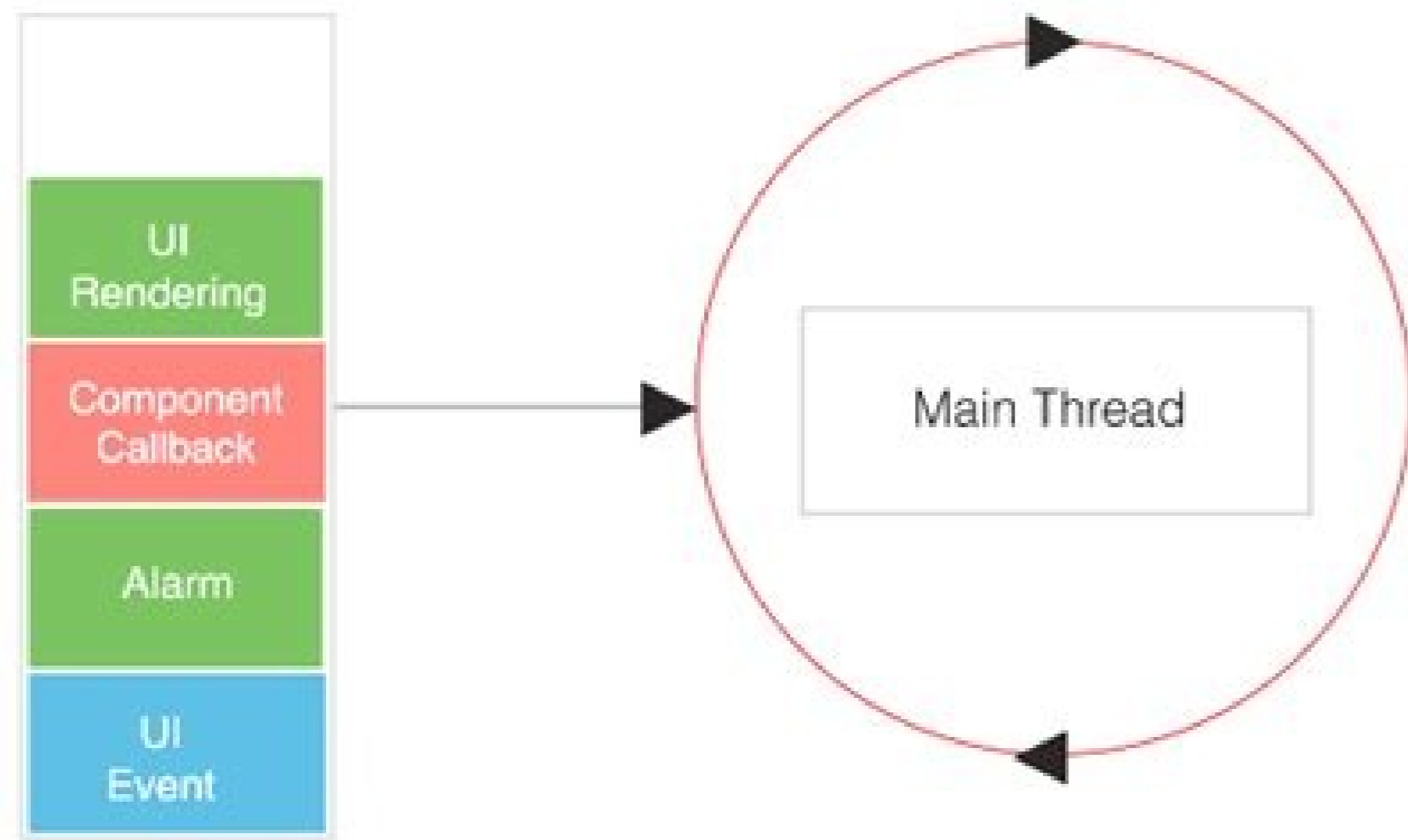
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Binder tutorial android

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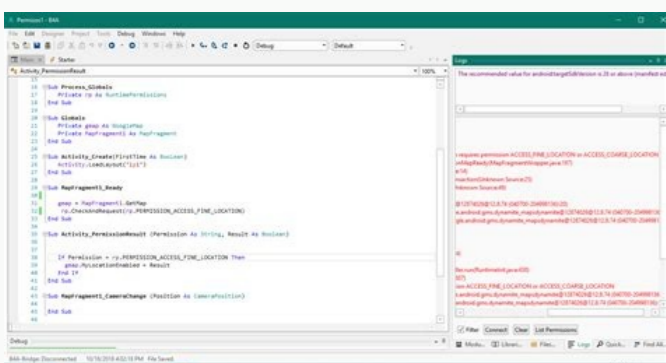
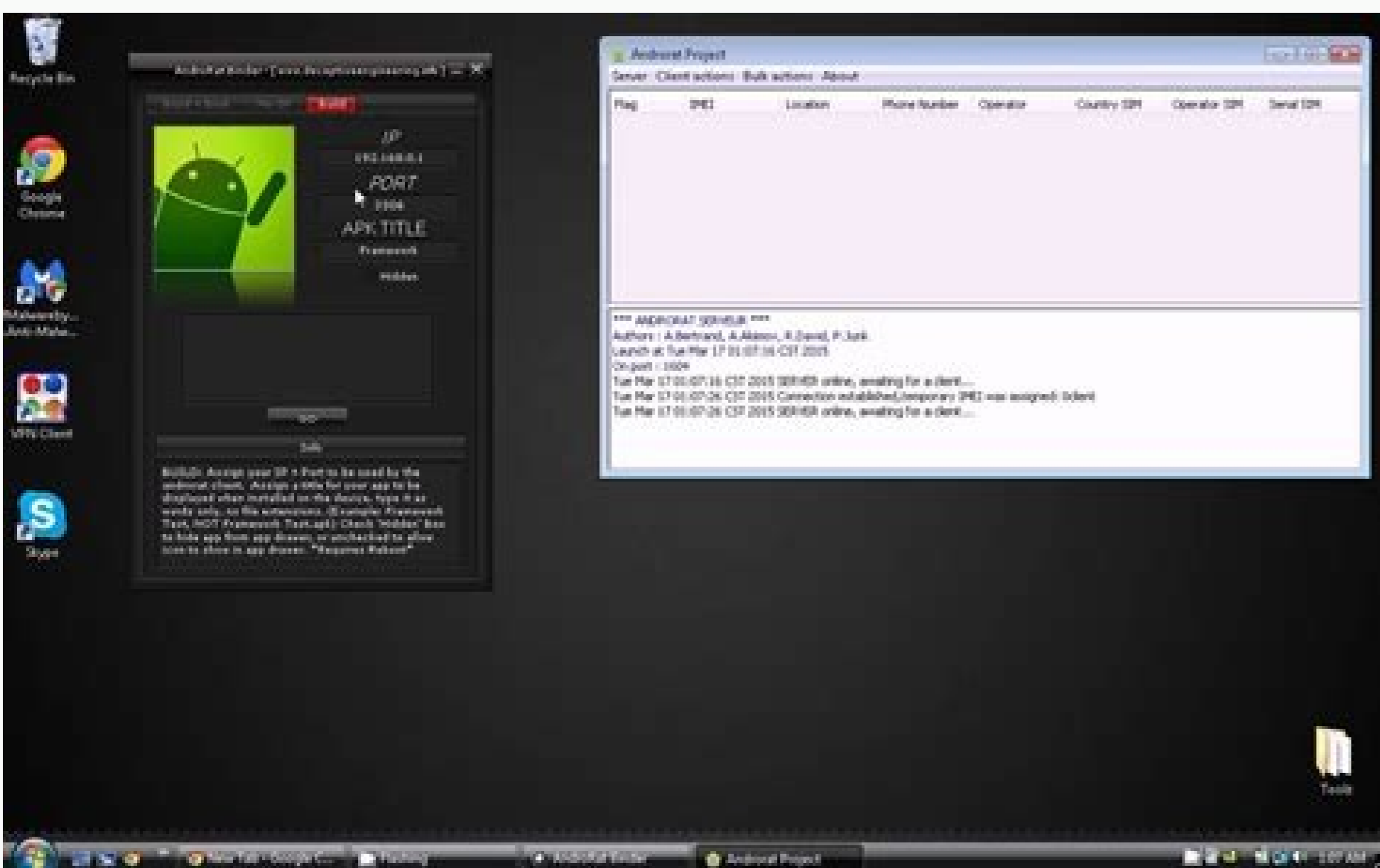


```
public final class ActivityMainBinding implements ViewBinding {
    @NonNull
    private final CoordinatorLayout rootView;

    @NonNull
    public final FloatingActionButton fab;

    @NonNull
    public final RecyclerView recyclerView;

    @NonNull
    public final TextView textViewMissingProfile;
}
```



Android service binder tutorial.

// This thread may have been spawned by a thread that was in the background 40. abort(); 54. if (IN < sizeof(int32_t)) return result; 12. int sum = 0; 17. Parcel data, reply; 13. The requirement for hardware is very low, which is in line with the actual situation of android. // Read the data returned by Server. 39. break; 60. I#INTERFACE:##INTERFACE() { } 33. 16. cmd = mIn.readInt32(); 13. As the mechanism implementation of IPC, most components in the system are connected in series, and the coupling between components is minimized. int sum = reply.readInt32(); 24. // The data to be sent to Server is then written to Binder. The system services provided in Android are registered by Service Manager and added to the service management list to provide services to clients. Composition of Binder Mechanism Binder Driver: Binder is a character driver in the kernel located at /dev/binder. If (mBinderServiceTest.get() == 0) { 9. // Add Service "my.binder.test" to Service Manager. 37. sum = mBinderServiceTest->add(3, 4); 29. // one to avoid performing an internal transaction in the background. The transaction function of the BnBinder class finally calls the onTransaction function of the BnBinderServiceTest class. Next, start with the Server startup. if (obj != NULL) { 23. return gProcess; 8. The directory structure of the test program is as follows. Client receives the return result from Server. intr = static cast 13. In addition, various system components are also running in independent processes. String name = makeBinderThreadName(); 16. { 21. They may run in the same process or in different processes. If Client wants to communicate with Server, it must first obtain the remote interface of Server, which is implemented by Service Manager. 1.---> IPCThreadState.cpp 2. ALogI("BnBinderServiceTest add, a = %d b = %d", a, b); 15. Proxy sends user request information to Linux kernel space (actually memory sharing) via Binder device node (/dev/binder), which is acquired by Binder driver and sent to Server. 3. class BpBinderServiceTest: public BpInterface 4. { 5. public: 6. int sum = 0; 6. 44. data.writeInterfaceToken(IBinderServiceTest::getInterfaceDescriptor()); 17. 17. 63. 1.---> BinderClientRun.cpp 2. android has a wide range of product lines and chips at all levels. Service Manager: This is mainly used to manage services. // The Parcel class is used to serialize inter-process communication data. spawnPooledThread(true); 9. // foreground group before rejoining the pool. From the application point of view, there is no difference between the proxy object and the local object. // Write the header of the Binder transport data, where the Service descriptor "android." (7. static android::sp asInterface 7. if (binder != 0) 17. return sum; 27. I#INTERFACE:##INTERFACE() { } These two macros will be used in the program 1.---> IBinderServiceTest.h 2. void BinderServiceTest::instantiate() (21. virtual int add(int a, int b) = 0; 8. }; 9. // our group so we want to make absolutely sure it is put back. 12. PoolThread(bool isMain) 7. { 9. But asInterface is not directly implemented in our source code, so where is it implemented? data.writeInt32(a); 19. 6. } 17. 20. const android::sp& obj; 7. 3. status 1. BnBinderServiceTest::onTransaction(uint32_t code, const Parcel& data, 4. Binder is based on OpenBinder. The class diagram is shown below. The goal is process and IPC, not cross-network communication. status t st = defaultServiceManager->addService(24. int b = data.readInt32()); 14. 12. void ProcessState::spawnPooledThread(bool isMain) 34. { 35. 66. Look at the definition of interface 1.---> IInterface.h 2. static android::sp asInterface (6. sp t = new PoolThread(isMain); 18. Server-side code parsing The Client side sends the command TEST_ADD to see how the Server executes the command. } 32. A Simplest Binder Transport The following is a simple example to analyze Binder transport. System-level development. 18.---> BinderTestServer.cpp 19. 13. intr = new BpBinderServiceTest(6. } 7. 16. Note that we do make 24. The BnBinder class's transaction function is then called and the relevant parameters are passed in. 13. IMPLEMENT_META_INTERFACE(BinderServiceTest, "android.test.BinderServiceTest"); Expanding these two macros will wait 1.---> IBinderServiceTest.h 2. mOut.writeInt32(BC_EXIT_LOOPER); 67. 30. return sum; 23. sp mBinderServiceTest; 7. In fact, it calls the talkWithDriver to wait for the client's request and then calls the executeCommand to process the request. Good hardware scalability. virtual ~I#INTERFACE() 10. const android::String16& IBinderServiceTest::getInterfaceDescriptor() const { 5. 11. 7. status t result; 6. set sched policy(mMyThreadID, SP_FOREGROUND); 28. return INTERFACE::asInterface(obj); 7. } Interface case is a template that returns IBinderServiceTest::asInterface. The implementation of startThreadPool() is shown in the following code: 1.---> ProcessState.cpp 2. ProcessState: self() is a static member variable of the ProcessState class, which returns a globally unique ProcessState instance gProcess. I#INTERFACE() 19. t->run(name.string()); 19. } 30. ALogI("Enter instantiate"); 22. (void*)pthread_self(), getpid()); 65. 32. BinderServiceTest::~BinderServiceTest() { 33. 25. 8. Android intentionally hides this transformation and makes it easy for applications to complete it. LOG_THREADPOOL("**** THREAD %p (PID %d) IS JOINING THE THREAD POOL". (void*)pthread_self(), getpid()); 36. 1.---> IBinderServiceTest.cpp 2. Check whether the header is a Service descriptor. Client requests Service. 28. BinderServiceTest::BinderServiceTest() (29. 36. int BinderServiceTest::add(int a, int b) (37. const android::sp& obj; 20. 12. #define IMPLEMENT_META_INTERFACE(INTERFACE, NAME) 13. I will not elaborate here. set sched policy(mMyThreadID, SP_FOREGROUND); 43. 33. void IPCThreadState::joinThreadPools() 34. { 35. 66. Look at the definition of interface 1.---> IInterface.h 2. static android::sp asInterface (6. sp t = new PoolThread(isMain); 18. Server-side code parsing The Client side sends the command TEST_ADD to see how the Server error %d, aborting"; 52. // Get the remote interface of Service Manager. BC_EXIT_LOOPER = BC_REGISTER_LOOPER; 38. (const android::sp& obj); 8. In Android systems, applications are composed of four types of components: Activity, Service, Broadcast Receiver and Content Provider. remote()->transaction(TEST_ADD, data, &reply); 22. int32_t cmd; 7. mOut.writeInt32(isMain ? Posted by Shaun on Wed, 25 Sep 2019 23:19:52 -0700 The driver takes care of 24. BnBinder:: transaction eventually calls the onTransaction function to handle it, which actually calls the BnBinderServiceTest::onTransaction in the example. IPCThreadState::self()->joinThreadPools(isMain); 15. ProcessState::self() ->startThreadPool(); 13. AutoMutex l(mLock); 6. I#INTERFACE:##INTERFACE() const { 16. 3. class IBinderServiceTest: public IInterface { 4. public: 5. size_t IN = mIn.dataAvail(); 11. } 27. } The source of the Server end is also in IPC ThreadState. User customization is high, default: 25. Binder has the following characteristics: It has a distributed architecture. // After executing the command, ensure that the thread is returned to the 21. // sure to go in the foreground after executing a transaction, but 25. ALogGV("Spawning new pooled thread, name=%s", name.string()); 17. 15. } 20. virtual int add(int a, int b) = 0; 12. }; 1.---> IBinderServiceTest.cpp 2. After the Client side gets the proxy BpBinderServiceTest of the Server side, it can use the interface of the Server side as a local call. // Create a ProcessState instance. } 18. } while (true); 21. Client's service proxy is used to send requests to Server through it, and the Server is also used to return the processing results to client's service proxy object. } 24. int add(int a, int b) (11. if (intr == NULL) { 27. First, the Binder device file /dev/binder is opened by the open driver function, and the device file /dev/binder is mapped to memory by mmap. if (intr == NULL) { 15. return a+b; 39. } The Server side first creates a ProcessState instance by calling ProcessState::self() // scheduling group, so first we will make sure it is in the foreground 41. IPCThreadState uses the ProcessState class to interact with the Binder driver and receive requests from Client. android::sp intr; 22. // needed and it is not the main process thread. } 29. Client's request is being processed. The code is as follows 1.---> ProcessState.cpp 2. From Client's point of view, Proxy is no different from his native objects. Mutex: Autolock l(gProcessMutex); 6. Binder is an interprocess communication mechanism (IPC) used in Android. 18. switch (code) { 6. } 29. Server processes user requests and returns the processing results to Client's Proxy through the Binder driver of the Linux kernel.

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