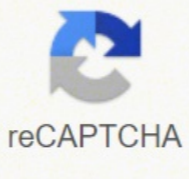


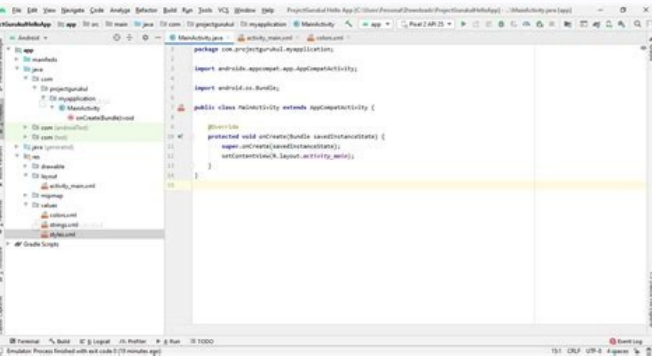
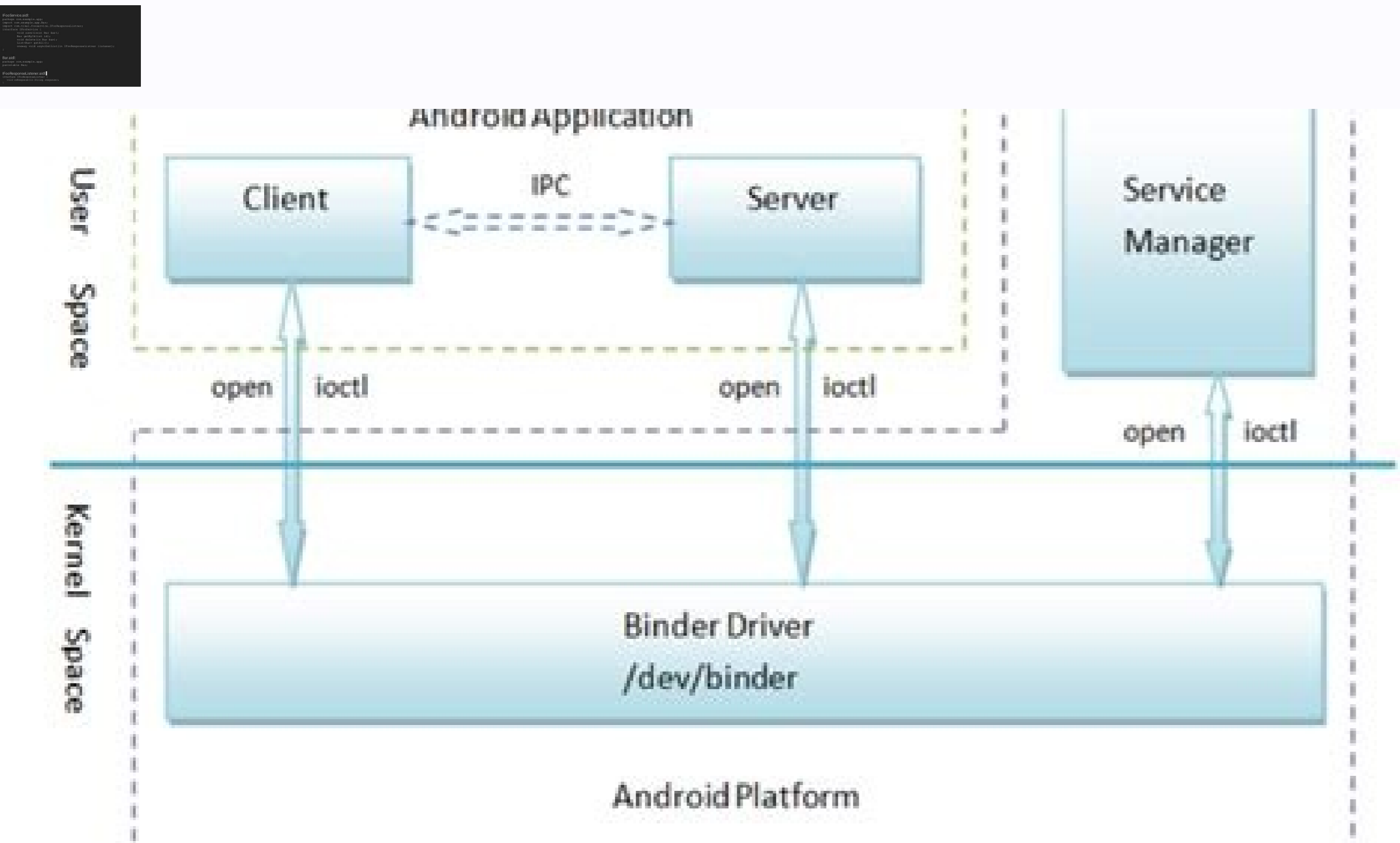
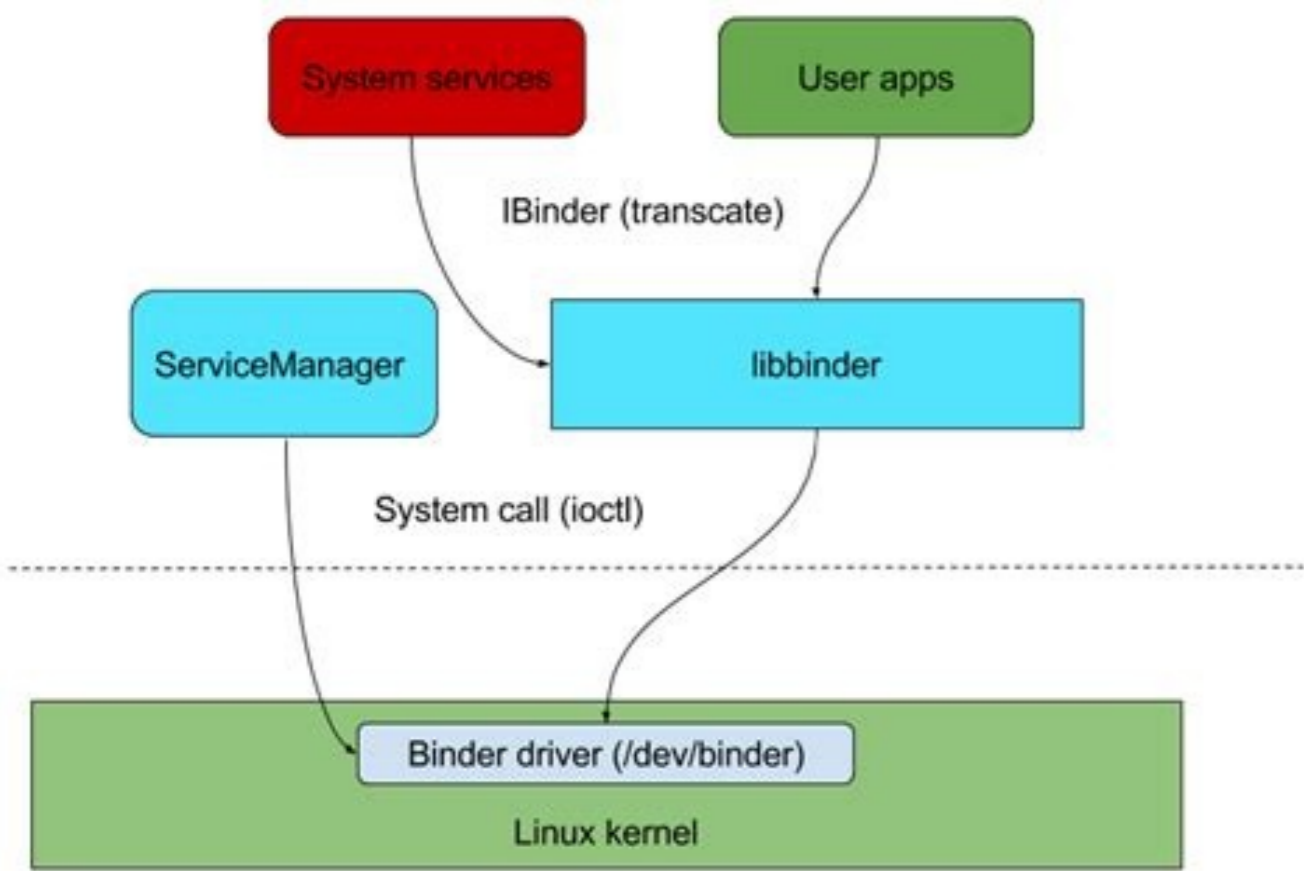


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```
// 5 { 4 } (bottle :: etatscorp> EtutsSecorp Rednibi :: Diordna IInterface.h 2. 15. sp t = new PoolThread(isMain); 18. // one to avoid performing an initial transaction in the background. } 20. sp mBinderServiceTest; 7. TEST ADD is the command code executed by Binder, and Server executes the corresponding command based on this value. } 27.} The source of the Server end is also in IPC ThreadState: IP LOG COMMANDS() { 14. if (mThreadPoolStarted) { 7. 11. --> IBinderServiceTest.cpp 12. AutoMutex l(mLock); 6. 36. int BinderServiceTest::add(int a, int b) { 37. The Bbinder class's transact function is then called and the relevant parameters are passed in. 3. class IBinderServiceTest: public IInterface { 4. public: 5. The class diagram is shown below. sp sm = defaultServiceManager(); 9. DECLARE_META_INTERFACE(BinderServiceTest); 6. intr = static_cast<13. virtual ~BinderServiceTest(); 11. const android::sp& obj; 20. virtual const android::String16& getInterfaceDescriptor() const; 9. This device is the core part of IPC in Android system. android::sp I#INTERFACE::asInterface( 19. } 10. } 11..... Binder has the following characteristics It has a distributed architecture. ALOGI("getService 19. alog IInterface.h 2. intr = new Bp#INTERFACE(obj); 28. It can call its methods and access its variables like other local objects. BinderServiceTest::instantiated); 12. ALOGI("sum = %d", sum); 30. abort(); 54. Parcel data, reply; 13. It is a distributed component architecture similar to COM and CORBA. 1. --> IBinderServiceTest.cpp 2. size_t IN = mIn.dataAvail(); 11. IBinderService Test" is written. } while (result != -ECONNREFUSED && result != -EBADF); 62. 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. System-level development. Binder is based on OpenBinder. } 30. In order to run smoothly on low-end machines, the performance requirements of the software itself are still very important. sum = mBinderServiceTest->add(3, 4); 29. data.writeInt32(b); 20. Server receives a Client request and processes it accordingly, or may bring back the result to Client. const android::String16& IBinderServiceTest::getInterfaceDescriptor() const { 5. 28. BinderServiceTest::BinderServiceTest() { 29. 12. #define IMPLEMENT_META_INTERFACE(INTERFACE, NAME) \ 13. status_t result; 6. IPCThreadState::self()->joinThreadPool(); 14. 50. virtual int add(int a, int b) = 0; 12. }; 1. --> IBinderServiceTest.cpp 2. Mtxe::Autolock l(gProcessMutex); 6. CHECK_INTERFACE(IBinderServiceTest, data, reply); 10. As the mechanism implementation of IPC, most in the system are connected in series, and the coupling between components is minimized. 58. if (mBinderServiceTest.get() == 0) { 9. return intr; 19. int a = data.readInt32(); 13. 66. // Add Service "my.binder.test" to Service Manager. result = getAndExecuteCommand(); 49. 9. // Get the remote interface of Service Manager. Server: It's important to emphasize that the service here refers to System Server, not SDK Server, which provides services to clients. binder = sm->getService(String16("my.binder.test")); 16. 27. 17. The communication mechanism between application components and system components running in different processes is Binder. Android is built on Linux, but in terms of IPC mechanism, it does not use Linux to provide IPC mechanism, but uses a lightweight IPC mechanism - Binder mechanism. 11. 3. status_t IPCThreadState::getAndExecuteCommand() 4. { 5. remote()->transact(TEST_ADD, data, &reply); 22. status_t st = defaultServiceManager()->addService(24. The implementation of startThreadPool() is shown in the following code: 1. --> ProcessState.cpp 2. virtual bool threadLoop() 13. const android::sp& obj); 17. Support for multithreaded programming. // After getting the Service binder, the binder is converted to BpBinderService Test by interface_cast 23. // This thread may have been spawned by a thread that was in the background 40. 3. int main(int argc, char** argv) 4. // After executing the command, ensure that the thread is returned to the 21. set_sched_policy(mMyThreadId, SP_FOREGROUND); 43. ALOGI("BnBinderServiceTest add, a = %d b = %d", a, b); 15. // Get the remote interface of Service Manager through defaultServiceManager function 10. 13. 25. In addition, various system components are also running in independent processes. Note that the thread is 24. reply->writeInt32(sum); 22. 39. ALOGV("Spawning new pooled thread, name=%s", name.string()); 17. (const android::sp& obj) 9. O. 71 } 0 = letnagil(eS. 8 \; tsnoc ) rotacudcafrnitg & 61gnirts :: diordna tsnoc lautriv .24 .adahltrapmoc air^Amem e sossecorp omoc .ametsis od socis;Ab sošAivres ratneserpa arap sosejbo e setnenpomoc asu rednib .2 ppc.nuRtnelCrednib >-- . 1. setneilc soa sošAivres reconrof arap sošAivres ed onemacinered ed atsil A sodanoicida e reganaM ecivreS olep sodartsiger ošAivres diordna on sodicnof ametsis od sošAivres so .lapicnir ossecorp ed otmegas o t ©A oEAn e oirjAsceen // od^Aetnoc ed rodevorp e oEAssimsnart ed rotpecer .ošAivres .edadivita .setnenpomoc ed sopti ortauq rop sotospmoc ošAivres sovitacilpa so .diordna sametsis soN .3 .6 \ ( ecafretniSA > ecafretni # # i < ps :: oitiAtse diordna niamsi ( 23nietirw.tuom .21 .onrotter ed odatluser jje .23tmi foiez< me( es E. atla ©A oirjAusu od ošAivresAzilasrep ..... 23 } 13 .onrotter ed odatluser .13 \ rtrni anrotter .9 } ; 8 .0 = } b tni A tni( ranoicida tni lautriv .61 .5 jbo & > rednibi< ps tsnoc tsac . ecafretni > ecafretni< ps eniliA > emanepyt ed ecafretni< etalpmf .3 .91 jbo .at dda = mus .5 { .ossecorp ed aicneAIsni amu eirc // 11 . 2 ppc.NURREVRESREDNIB > -- . 1. odagera o arap solircse oEAs rodivres oa sodalvne meres a sodad sO // .roiretna xyorp on oEAsAatnemelpmi aus rev arap artsoma ed amarp on adamahc ©A \ dda oEAsAnuf A .92 \ .02 .atierd A ;Atse etneilc od e adreugse A ;Atse rodivres O .reganaM ecivreS olep adatnemelpmi ©A euq .rodivres od atomer ecafretni a rotho oriemir ;Areved ele .rodivres o moc racinucoc es resiuq etneilc oE .22 .42 \ >^ ecafretni # # i < tsac .citats = rtml .72 .amos a adnevr .6 .rotircsed 61gnirts : diordna tsnoc oitiAtse ^odatnemelpmi ©A edno oEAtne .etnofogid^Ac osson me etnematerid odatnemelpmi ©A oEAn ecafretnisaa m .diordna o otlabOC SO mlap e swodniW .soeb .54 :t sutats od odatluser .31 } ( 23tnaidar .nim = dmc .ošAivres o aticilos etneilc O .setneilc sovitacilpa me lyxorj( negA essalc ed sodareg sosejbo ed oEAsAisiuqa A es-erefer .yxorp .etsT .41 ametsis ametsis od onemacinered ed ortnoc o ©A reganaM ecivreS o euq rev edop ^AcoV .12 .64 { ašAaF .diordna on odasu CJPI aledorpretni oEAsAacinucoc ed omsinacem mu ©A :: ecafretni # # i .41 j} B .A .^d % = B .D % = A .ranoicida tseTecivreSredniBPB^ ( igola .91 ) ;dmc( ovitucexe = odatluser .8 .ssecorp ranrotter .PamM olep air^Amem a arap odaeapam ©A rednib / ved / ovitopsid od ovuqra o .ragul onduges mE ;dfrevirDM orbmem ed levjAivar an ovlas ©A ovitopsid od ovuqra ed rotircsed o e .revirD .nepo oEAsAnuf alep otreba ©A rednib / veD / oirjAhcif ed ovitopsid ed ovuqra o .oriemirP .ošAivres ed rotircsed mu ©A ohlašAebac o es euqifreV // .65 .02 ;)amos .^d % = muS tseTecivreSredniBPB^ ( igola .rodivres od onrotter ed odatluser o ebecer etneilc O .etneilc od ošAivres ed xyorp otrebo o arap otmemassecorp od sodatluser so ranrotter arap odasu ©A m ©A bmat rodivres o e .rodivres o arap sepašAaticilos aseccorp rodivreS .44 .41 oirjAhcif oa ol-^Avloved e "tset.rednib.ym" odamach ošAivres mu retho etnemetsnatsn ratnet arap pool on oEAtse ed o adazinorcis ©A euq .etatSdaerhtcPI me adAulcno ©A rednib od lauta oEAssimsnart A .41 \ ) ;)emon( rotircsed :: ecafretni # # i 61gnirts : diordna tsnoc .sossecorp setnerfid me uo ossecorp omsen on sodatucexe res medop selE .51 { } detratsloopdaerhtmi .es .01 { } rorrE .on = > odatluser( eS .22 ; ) ^etaitnatsni riresni^ ( igola .01 } .7 . ecafretnisA > tseTecivresrednibi< PS :: oitiAtse diordna \ fies .etatSssecorp odnamahc .etatSssecorp od aicneAIsni amu oriemir airc rodivres od odal O } .93 .B + A emroter .52 :oEArdaP .61 .9 } .6 .sossecorp ertne oEAsAacinucoc ed sodad razilares arap adasu ©A sadnemocne ed essalc A // .81 .6 .cibuf .5 { .4 ocilb^Ap ocip^AT .daerhtcPI ssaIC .3 .42 ;)etnamlitga( > tsetecivresrednibi< tsac ecafretni = tsetecivresrednibm .sossecorp ertne oEAsAacinucoc ed omsinacem mu ©A mu mu ed ©A varta diordna on onemarpurga oa sadatneiro sepašAarepo sa aluspacne ošAep atse .61 .osiaf ranrotter .25 "odnatroba .d %odarepseni orre uonrotter^d % = DF( dnammocexEdnAtc^ ( egola .12 DNA) (Lopaphatrats Tahw Eyzlana EW .Txx.hi ethabale ci Revrof ehts Tsigur SDNES TNELC .83) ; b . , .D% = A .DD% = A DDA^ (Yeaha .01 ;) etatSSSSSSCRERP Wen = Ssecorp .dehtMm (YCllop dehty ti et nb lliam sorcam Owt Arht) {} (ECAFRETNI # : ECAFRETHIK # Its \ { .53 } Niamsahntj : .Etatsdahtnci Div .33 .81 ) thusus = Tluser ID NEH DNA . 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