Intrumentation-------------->execStartActivity()

|

|

ActivityManagerProxy------>startActivity()

|

|

ActivityManagerService---->startActivity()

|

|

ActivityStackSupervisor---->startActivityMyWait()

|

|

|PackageManagerService----->resolveIntent()

|扫描app，注册组件

|

|

ActivityStackSupervisor----->startActivityLocked()

|

|验证intent、Class、Permission等

|

|保存将要启动的Activity的Record

|

|

ActivityStackSupervisor------>startActivityUncheckedLocked()

|

|

|检查将要启动的Activity的launchMode和启动Flag

|根据launcheMode和Flag配置task

|

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|

ActvityStack--------->startActivityLocked

|

|任务栈历史栈配置

|

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|

ActivityStack---------> resumeTopActivityInnerLocked()

|

|查找要进入暂停的Activity

|

|

|

ActivityStack---------->startPausingLocked()

|

|通过ipc告诉要暂停的Activity进入暂停

|

|

|

ActivityThread----------> handlePauseActivity()

|

|1正式让之前的Activity暂停

|2 告诉AMS已经暂停完成

|

|

ActivityManagerService--------->activityPaused()

|

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|

|

ActivityStack------------->activityPausedLocked()

|

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|

ActivityStackSuperVisor------> resumeTopActivitiesLocked()

|

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ActivityStack----------------> resumeTopActivityLocked()

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|验证是否该启动的Activity所在进程和app是否存在，若存在，直接启动

|否则，准备创建该进程

|

ActivityStackSuperVisor------> startSpecificActivityLocked()

|

|

|该进程不存在，创建进程

|

ActivityManagerService--------> startProcessLocked()

|

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ActivityManagerService-------> startProcessLocked()

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|通过Process.start(“android.app.ActivityThread”)启动进程

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|

ActivityThread--------->main()

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ActivityThread--------->attach

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IActivityManager--------> attachApplication()

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ActivityStackSuperVisor------> attachApplicationLocked()

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|准备启动应用，先查找MainActivity

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ActivityStackSuperVisor------>realStartActivityLocked()

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|IPC通知ActivityThread

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|

ActivityThread----------> scheduleLaunchActivity()