<https://developer.android.com/topic/performance/memory-overview#:~:text=The%20Zygote%20process%20starts%20when,code%20in%20the%20new%20process>.

What is a daemon in computers?

In computing, a daemon (pronounced DEE-muhn) is **a program that runs continuously as a background process and wakes up to handle periodic service requests, which often come from remote processes**.

What is the Zygote process?

Zygote is a special process in Android which **handles the forking of each new application process**. These processes are simply regular Linux processes. We may think of the Zygote as the template process for each app and service that is started on the device.

The Zygote process starts when the system boots and loads common framework code and resources (such as activity themes). To start a new app process, the system forks the Zygote process then loads and runs the app's code in the new process.

What is Dalvik vs Zygote?

The Dalvik virtual machine is the virtual machine that executes Android applications written in Java. Zygote facilitates using a shared code across the VM, hence, helping to save the memory and reduce the burden on the system.

AOT compilation means Ahead of Time compilation. Again, as the . dex contain the bytecode, it needs to be translated to the machine code to be run. In ART Android Runtime, as it is AOT based, it gets translated before we run the app.

OAT is a file format produced by compiling a DEX file with ahead-of-time compilation (AOT). Before AOT came to Android, dexopt was used to optimize DEX to ODEX (optimized DEX) which contains the optimized bytecode.

What is the OAT file extension?

An OAT file is **an optimized runtime application that Android operating system generates from an APK package**. This is done to speed up application startup/update time and improve user experience. OAT files are saved in Executable Linkable Format. These files are generated by the dex2oat executable on Android platforms.

What are the steps to deploy an app?

**How to Publish an Android App on Google Play Store: A Step-by-Step Guide**

1. Step 1: Create a Google Developer account.
2. Step 2: Add a Merchant Account.
3. Step 3: Prepare the Documents.
4. Step 4: Study Google Developer Policies.
5. Step 5: Technical Requirements.
6. Step 6: Creating the App on the Google Console.
7. Step 7: Store Listing.