

Android Architecture

1 28.8 Mbps
1 2.3 Mbps



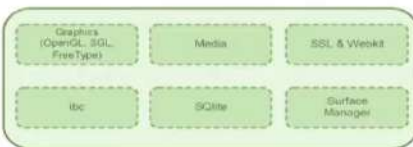
APPLICATION LAYER



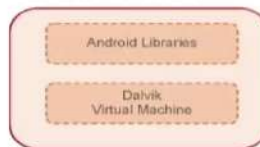
APPLICATION FRAMEWORK



LIBRARIES



ANDROID RUN TIME



LINUX KERNEL



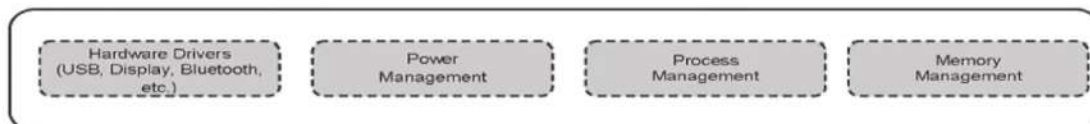
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Linux Kernel

125.2 Mbps
1991.3 Kbps



LINUX KERNEL



- It is like heart of android operating system and present at the bottom of android architecture.
- It contains essential hardware drivers like display, audio, camera, bluetooth, wifi, etc.

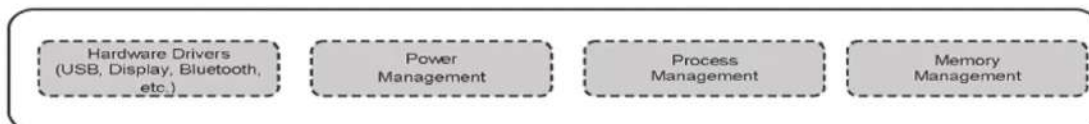


Linux Kernel

131.5 Mbps
1851.6 Kbps



LINUX KERNEL



- It provides functionalities such as power management, process management and memory management.
- It provides a level of abstraction between device hardware and upper layers of Android software stack.

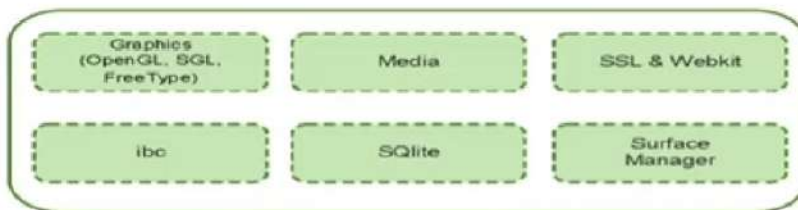


Libraries

17.5 Mbps
1278.9 Kbps



LIBRARIES



- Above Linux kernel there are native libraries such as SQLite, WebKit, OpenGL, SSL, etc.



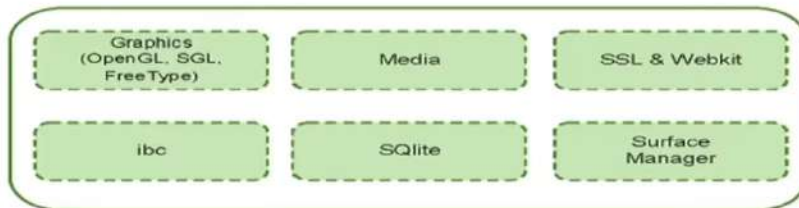
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Libraries

LIBRARIES



- Some of these libraries are briefly explained below.
 - **SQLite** – It provides various classes used for database management.
 - **WebKit** – It is a web browser engine used to play internet content.



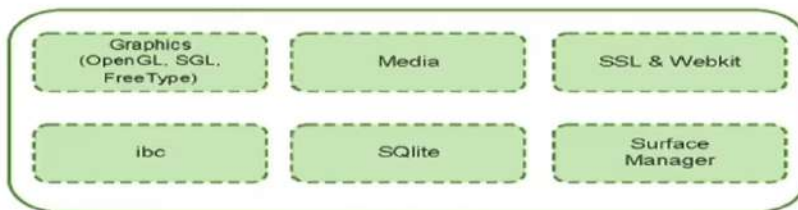
5:36 / 13:19

Libraries

↓ 4.4 Mbps
↑ 122.5 Kbps



LIBRARIES



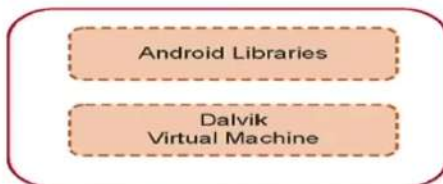
- **SSL** – It provides internet security.
- **OpenGL** – It is a Java interface to the OpenGL ES 3D graphics rendering API.





Android Run Time

ANDROID RUN TIME



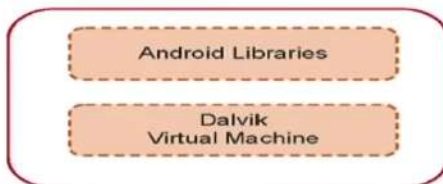
- It is third section which is also present on the second layer from bottom of Android architecture.
- Android runtime provides core libraries and Dalvik Virtual Machine (DVM).



7:05 / 13:19

Android Run Time

ANDROID RUN TIME



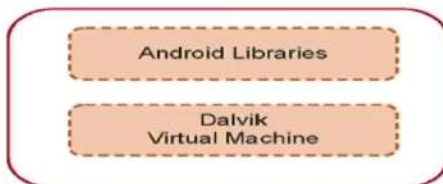
- These core libraries enable Android developers to write Android applications using standard Java programming language.
- DVM is a major component of Android OS. It is same as like Java Virtual Machine (JVM).





Android Run Time

ANDROID RUN TIME



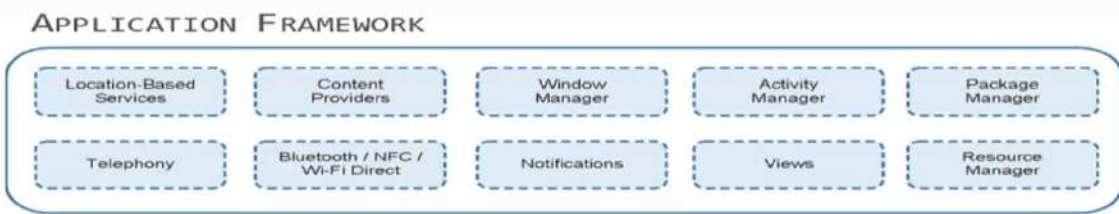
- DVM is responsible for running Android applications. It consumes less memory and provides very fast performance.



9:11 / 13:19



Application Framework



- It is the fourth section and third layer present on the top of native libraries and android runtime.
- It provides various API's like activity manager, resource manager, content providers, telephony manager, et





Application Framework



- These API's are used by Android application developers.



Application Layer

0.3 Kbps
0.0 Kbps



APPLICATION LAYER



- Applications layer is present at the top. Various applications created by developers like games, contacts, browser, etc. are installed on this layer.





Application Layer

APPLICATION LAYER



- This layer consists of 3 main parts:
 - Native apps.
 - Third Party apps.
 - Developer apps.

