

Compiler: Android Compilers

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Use this page to configure the behavior of the [Android dx tool](#) and the [ProGuard tool](#). This tool converts compiled `.class` files to executable `.dex` files in the [Dalvik](#) format for further execution in the Android environment.

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- [DEX](#)
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DEX

In this area, configure the behaviour of the [Android dx tool](#) that converts the `.class` files to Dalvik byte code.

Item	Description
Maximum heap size	Use this spin box to control the size of the heap available to the process that launches the compiler. If you are compiling a particularly large or complex project, you may get out-of-memory errors and be required to increase the amount of memory allocated to the compiler.
Additional VM options	<p>In this text box, specify the string to be passed to the Dalvik Virtual Machine for launching the Android application. If necessary, click  and type the desired string in the Android DX Compiler VM Options dialog.</p> <p>When specifying the options, follow these rules:</p> <ul style="list-style-type: none">■ Use spaces to separate individual options, for example, <code>-client -ea -Xmx1024m</code>.■ If an option includes spaces, enclose the spaces or the argument that contains the spaces in double quotes, for example, <code>some "arg or some arg"</code>.■ If an option includes double quotes (e.g. as part of the argument), escape the double quotes by means of the backslashes, for example, <code>Dmy.prop=\"quoted_value\"</code>.
Optimize	<ul style="list-style-type: none">■ Select this check box to have the <code>.dex</code> file converted into a <code>.odex</code> file (optimized). The optimized <code>.odex</code> version of a <code>.dex</code> file is stored <i>outside</i> the application package (<code>.apk</code>). During the booting of the Android operating system, <code>.odex</code> files make the basis for building a cache for the <i>Dalvik</i> virtual machine. As a result, the operating system in advance knows what applications will be loaded.■ When this check box is cleared, the generated <code>.dex</code> file is not optimized. By default, the check box is selected.
Force jumbo mode	Select this check box to increase the default number of strings allowed in <code>.dex</code> files. By default, the check box is cleared.

Item	Description
Add "--core-library" flag	Select this check box to enable containing classes from certain packages as input files. The packages are as follows: java, javax.accessibility, javax.crypto, javax.imageio, javax.management, javax.naming, javax.net, javax.print, javax.rmi, javax.security, javax.sound, javax.sql, javax.swing, javax.transaction, javax.xml.

ProGuard

In this area, configure the behaviour of the [ProGuard tool](#).

Item	Description
VM options	In this text box, specify the additional options for running the ProGuard tool. For example, to increase the default ProGuard heap size, type <code>-Xmx<required maximum heap size></code> .

See Also

Procedures:

- [Android](#)

Reference:

- [Android Reference](#)

Web Resources:

- [Developer Community](#)