Gdb for android

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p	rocedure Example is
	subtype Nat is Integer range 0 Integer Last;
	<pre>type Rec (N : Natural) is tagged record S : String (1 N); end record;</pre>
	type Money_Type is delta 0.01 digits 14;
	<pre>generic with procedure Put_Line (5 : String); package Things is procedure Process (5 : access Wide_String) with Pre = 5 /= null and then S'Length &gt; 0 and then (for all I in 5.all'Pange ⇒ S.all (1) / ASCII.Nul);</pre>
	end Things;
	package body Things is

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Install gdb on android. Gdb binary for android. Gdb for android arm. Gdb server for android. Compile gdb for android.

Stay organized with collections Save and categorize content based on your preferences. The NDK includes a shell script named ndk-gdb to start a command-line native debugging in Android Studio instead. Requirements For command-line native debugging to work, these requirements must be met: Build your app using the ndk-build script. The ndk-gdb script does not support using the legacy make APP= method to build. Enable app debugging in your Android Manifest.xml file by including an element that sets the android:debuggable attribute to true. Build your app to run on Android 2.2 (Android API level 8) or higher. Debug on a device or emulator running Android 2.2 or higher. For debugging purposes, the target API level that you declare in your Android Manifest.xml file does not matter. Develop your app in a Unix shell. On Windows, use Cygwin or the experimental ndk-gdb-py Python implementation. Use GNU Make 3.81 or higher. Usage To invoke the ndk-gdb script, change into the application directory or any directory under it. For example: cd \$PROJECT \$NDK/ndk-gdb Here, \$PROJECT points to your NDK installation path. When you invoke ndk-gdb, it configures the session to look for your source files and symbol/debug versions of your generated native libraries. On successfully attaching to your application process, ndk-gdb outputs a long series of error messages, noting that it cannot find various system libraries. This is normal, because your host machine does not contain symbol/debug versions of these libraries on your target device. You can safely ignore these messages. Next, ndk-gdb displays a normal GDB prompt. You interact with ndk-gdb in the same way as you would with GNU GDB. For example, you can use b to set breakpoints, and c (for "continue") to resume execution. For a comprehensive list of commands, see the GDB manual. If you prefer using the LLDB Debugger, use the --Ildb option when invoking the ndkgdb script. Note that when you quit the GDB prompt, the application process that you're debugging stops. This behavior is a gdb limitation. ndk-gdb handles many error conditions, and displays an informative error message if it finds a problem. these checks include making sure that the following conditions are satisfied: Checks that ADB is in your path. Checks that your application is declared debuggable in its manifest. Checks that, on the device, the installed application with the same package name is also debuggable. By default, ndk-gdb searches for an already-running application process, and displays an error if it doesn't find one. You can, however, use the --start or --launch= option to automatically start your activity before the debugging session. For more information, see Options. Options To see a complete list of options, type ndk-gdb --help on the command line. Table 1 shows a number of the more commonly used ones, along with brief descriptions. Table 1. Common ndk-gdb options and their descriptions. Option Description> -lldb If set, the script will use the LLDB Debugger for the session instead of gdb. --verbose This option tells the build system to print verbose information about the native-debugging session setup. It is necessary only for debugging problems when the debugger can't connect to the app, and the error messages that ndk-gdb displays are not enough. -force By default, ndk-gdb aborts if it finds that another native debugging session is already running on the same device. This option kills the other session, and replaces it with a new one. Note that this option does not kill the actual app being debugged, which you must kill separately. --start When you start ndk-gdb, it tries by default to attach to an existing running instance of your app on the target device. You can override this default behavior by using --start to explicitly launch the application on the target device before the debugging session. Starting ndk-gdb with this option specified launches the first launchable activity listed in your application manifest. Use --launch= to start the next launchable activity. To dump the list of launchable activities, run --launch-list from the command line. --launch-list from your application. This feature is only useful if your manifest defines multiple launchable activities. --launch-list from your application. all launchable activity names found in your app manifest. --start uses the first activity name. --project = This option specifies the app project directory. It is useful if you want to launch the script without first having to change to the project directory. --port = By default, ndk-gdb uses local TCP port 5039 to communicate with the app it is debugging on the target device. Using a different port allows you to natively debug programs running on different devices or emulators connected to the same host machine. --adb= This option specifies the adb tool executable. It is only necessary if you have not set your path to include that executable. -d -e -s These flags are similar to the adb commands with the same names. Set these flags if you have several devices or emulators connected to your host machine. Their meanings are as follows: -d Connect to a single emulator device. -s Connect to a single emulator. Here, is the device's name as listed by the adb devices command. Alternatively, you can define the ADB SERIAL environment variable to list a specific device, without the need for a specific option. --exec= -x This option tells ndk-gdb to run the GDB initialization commands found in after connecting to the process it is debugging. This is a useful feature if you want to do something repeatedly, such as setting up a list of breakpoints, and then resuming execution automatically. --nowait Disable pausing the Java code until GDB connects. Passing this option may cause the debugger to miss early breakpoints. --tui -t Enable Text User Interface if it is available. --gnumake-flag= This option is an extra flag (or flags) to pass to the ndk-build system when querying it for project information. You can use multiple instances of this option in the same command. Note: The final three options in this table are only for the Python version of ndk-gdb. Thread support If your app runs on a platform older than Android 2.3 (API level 9), ndk-gdb cannot debug native threads properly. The debugger can only debug the main thread, abd completely ignores the execution of other threads. If you place a breakpoint on a function executed on a non-main thread, the program exits, and GDB displays the following message: Program under gdb Download/install gdb Run the commands at an adb command line. This will require a working busybox (tar, wget) in your path. Running under a terminal will require adjusting your paths. cd /data/local/tmp /data/local/tmp /data/local/tmp/bin/gdb [path to program] Below is a sample session, typed commands are in bold Reading symbols from /data/local/tmp/crash...done. (gdb) run Starting program: /data/local/tmp/crash warning: Unable to debug shared library initializers and track explicitly loaded dynamic code. Program received signal SIGSEGV, Segmentation fault. 0x0000859c in main () (gdb) info regi r0 0x1 1 r1 0xbecc6b34 -1093899468 r2 0x0 0 r3 0x0 0 r4 0x8580 34176 r5 0xbecc6b34 -1093899468 r6 0x1 1 r7 0xbecc6b14 -1093899500 r12 0x400d200c 1074601996 sp 0xbecc6b08 lr 0x4012d169 1074975081 pc 0x859c 0x859c cpsr 0x60070010 1611071504 (gdb) x/i \$pc => 0x859c : str r2, [r3] You can see that this program is trying to store the value in r2 (0x0) in the address pointed to by r3 (0x0), which resulted in the segmentation fault. Requisites: Root permissions needed Android sdk with ndk GDB Enhanced Features In this example the packname of the app is: com.example.nativetest Find the right gdb executable for your architecture: \$ find ~/Android/Sdk/.type f -name "gdbserver" ~/Android/Sdk/.ndk-bundle/prebuilt/android-x86/gdbserver bundle/prebuilt/android-arm64/gdbserver/g permissions: adb push ~/Android/Sdk/ndk-bundle/prebuilt/android-arm/gdbserver/ data/local/tmp/gdbserver" adb shell "ls -l /data/local/tmp/gdbserver" adb s -p ~/dbgtmp/ adb pull /system/lib ~/dbgtmp/lib / You must also copy the native library (contained in your target apk ) you want to debug! mkdir tmp unzip -d tmp cp tmp/lib// ~/dbgtmp/lib Before continuing forward the port that will be used for the communication between gdb and gdbserver: adb forward tcp:1337 tcp:1337 Launch the app, but do not trigger the execution of the native code. Become root, disable SELinux and attach gdb to the running process of your app with packagename ): adb shell # su # setenforce 0 # /data/local/tmp/gdbserver :1337 --attach \$(ps | grep | awk '{print \$2}') Start gdb and be careful: use the Android-SDK executable! ~/Android/Sdk/ndkbundle/prebuilt/linux-x86\_64/bin/gdb Connect to the gdbserver instance, specify the directories where gdb must search for the symbols of shared libraries. Then check if the operation has been successfully completed. Lastly, you can tabbing the function name that you want to debug (usually you are looking for some Java\_\* entrypoint), and then you can set a break point on such function: gef> gef-remote :1337 gef> set solib-search-path ~/dbgtmp/lib gef> info sharedlibrary gef> break Java gef> continue Now you can interact with your app and trigger the execution of the native function. I wish you happy debugging

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