**NDK-provided function macros:**

The following are GNU Make 'function' macros, and must be evaluated by using '$(call <function>)'. They return textual information.

my-dir

Returns the path of the last included Makefile, which typically is the current Android.mk's directory. This is useful to define

LOCAL\_PATH at the start of your Android.mk as with:

LOCAL\_PATH := $(call my-dir)

IMPORTANT NOTE: Due to the way GNU Make works, this really returns the path of the \*last\* \*included\* \*Makefile\* during the parsing of

build scripts. Do not call my-dir after including another file.

For example, consider the following example:

LOCAL\_PATH := $(call my-dir)

... declare one module

include $(LOCAL\_PATH)/foo/Android.mk

LOCAL\_PATH := $(call my-dir)

... declare another module

The problem here is that the second call to 'my-dir' will define LOCAL\_PATH to $PATH/foo instead of $PATH, due to the include that

was performed before that.

For this reason, it's better to put additional includes after everything else in an Android.mk, as in:

LOCAL\_PATH := $(call my-dir)

... declare one module

LOCAL\_PATH := $(call my-dir)

... declare another module

# extra includes at the end of the Android.mk

include $(LOCAL\_PATH)/foo/Android.mk

If this is not convenient, save the value of the first my-dir call into another variable, for example:

MY\_LOCAL\_PATH := $(call my-dir)

LOCAL\_PATH := $(MY\_LOCAL\_PATH)

... declare one module

include $(LOCAL\_PATH)/foo/Android.mk

LOCAL\_PATH := $(MY\_LOCAL\_PATH)

... declare another module

all-subdir-makefiles

Returns a list of Android.mk located in all sub-directories of the current 'my-dir' path. For example, consider the following

hierarchy:

sources/foo/Android.mk

sources/foo/lib1/Android.mk

sources/foo/lib2/Android.mk

If sources/foo/Android.mk contains the single line:

include $(call all-subdir-makefiles)

Then it will include automatically sources/foo/lib1/Android.mk and sources/foo/lib2/Android.mk

This function can be used to provide deep-nested source directory hierarchies to the build system. Note that by default, the NDK

will only look for files in sources/\*/Android.mk

this-makefile

Returns the path of the current Makefile (i.e. where the function is called).

parent-makefile

Returns the path of the parent Makefile in the inclusion tree, i.e. the path of the Makefile that included the current one.

grand-parent-makefile

Guess what...

import-module

A function that allows you to find and include the Android.mk of another module by name. A typical example is:

$(call import-module,<name>)

And this will look for the module tagged <name> in the list of directories referenced by your NDK\_MODULE\_PATH environment

variable, and include its Android.mk automatically for you.

Read docs/IMPORT-MODULE.html for more details.