

- Install Cygwin with the arm gcc libraries make, and python modules listed in Micropython documentation.

<https://docs.micropython.org/en/latest/develop/natmod.html>

Cygwin found here:

<https://www.cygwin.com/install.html>

- Use the default install options until you reach the package install menu and install the following packages.

Package	Current	New	Src?	Categories	Size	Description
binutils	2.42-1	2.43-1	<input type="checkbox"/>	Devel	8,610k	GNU assembler, linker, and similar utilities
ca-certificates	2023.2.62_v7.0.401-2	2024.2.66_v8.0.302-1	<input type="checkbox"/>	Net	845k	CA root certificates
libgcc1	11.4.0-1	12.4.0-3	<input type="checkbox"/>	Libs	40k	GCC C runtime library
libpkgconf5	2.2.0-1	2.3.0-1	<input type="checkbox"/>	Libs	24k	pkgconf library implementation
libstdc++6	11.4.0-1	12.4.0-3	<input type="checkbox"/>	Libs	531k	GCC C++ runtime library
mintty	3.7.1-1	3.7.4-1	<input type="checkbox"/>	Base, Shells	765k	Terminal emulator with native Windows look and feel
pkg-config	2.2.0-1	2.3.0-1	<input type="checkbox"/>	Devel	6k	Package compiler and linker metadata tool (alternative to pkg-config)
pkgconf	2.2.0-1	2.3.0-1	<input type="checkbox"/>	Devel	37k	Package compiler and linker metadata tool (alternative to pkg-config)
python36	3.6.13-1	3.6.15-1	<input type="checkbox"/>	Interpreters, Python	5,636k	Py3K language interpreter

- Download Micropython v1.23.0 source.

<https://github.com/micropython/micropython/tree/v1.23.0>

- Files are built in native module examples:

micropython-1.23.0\examples\natmod\...

Run the make command to build any of the native module examples.

- To allow for RP2350 compilation, replace the following files with those contained in this archive:
  - micropython-1.23.0\tools\mpy\_ld.py
  - micropython-1.23.0\tools\mpy-tool.py
  - micropython-1.23.0\py\dynruntime.mk
- In any make file, change the arch to the following:  
ARCH = armv8m