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QEMU Ultibo Bare Metal TextEditor 07/23/21

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<https://en.m.wikipedia.org/wiki/QEMU>

QEMU is a [hosted virtual machine monitor](#): it emulates the machine's [processor](#) through dynamic [binary translation](#) and provides a set of different hardware and device models for the machine, enabling it to run a variety of [guest operating systems](#). It also can be used with [Kernel-based Virtual Machine](#) (KVM) to run virtual machines at near-native speed (by taking advantage of hardware extensions such as [Intel VT-x](#)). QEMU can also do emulation for user-level processes, allowing applications compiled for one architecture to run on another.[\[3\]](#)

**Note : Additional software is needed to run QEMU “sudo apt-get install qemu-system-arm”.
The following programs are added.**

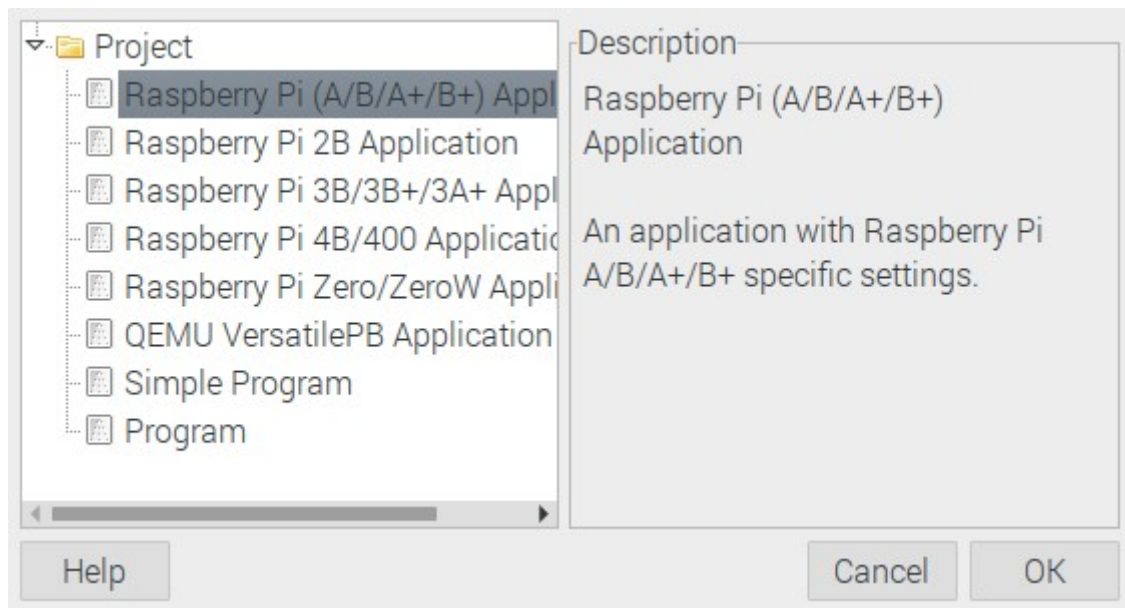
**/usr/bin/qemu-img /usr/bin/qemu-nbd /usr/bin/qemu-system-aarch64
/usr/bin/qemu-io /usr/bin/qemu-pr-helper /usr/bin/qemu-system-arm**

The command line for starting **Lazarus IDE (Ultibo Edition)** “~/ultibo/core/lazarus.sh”

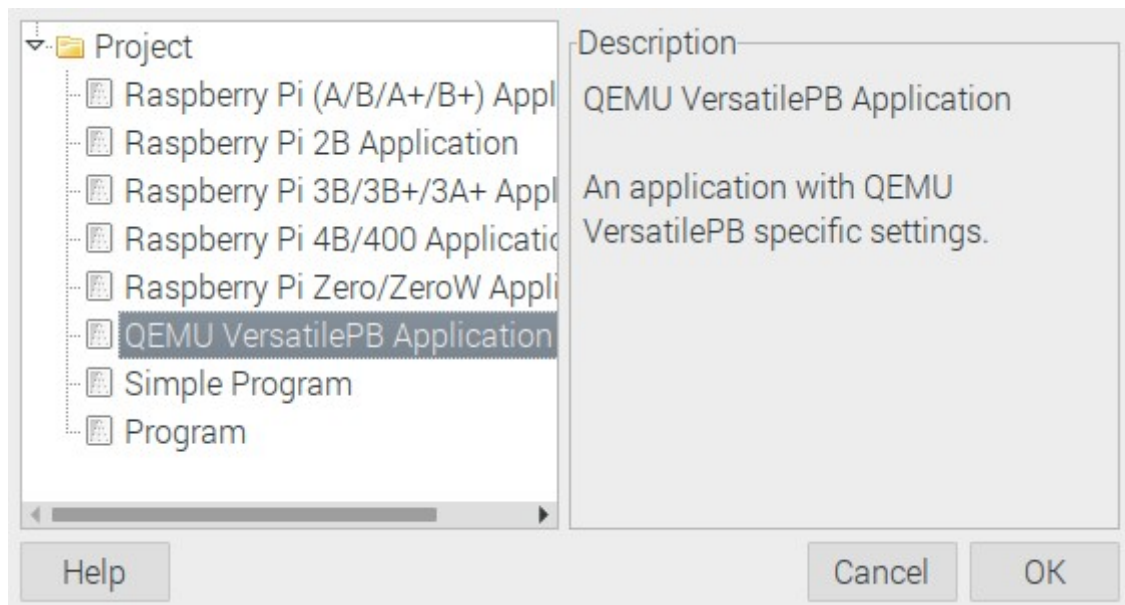
Requires Ultibo RTL installed with ultiboinstaller.sh

ultibo/core/fpc/source/rtl/ultibo/core/globalconst.pas

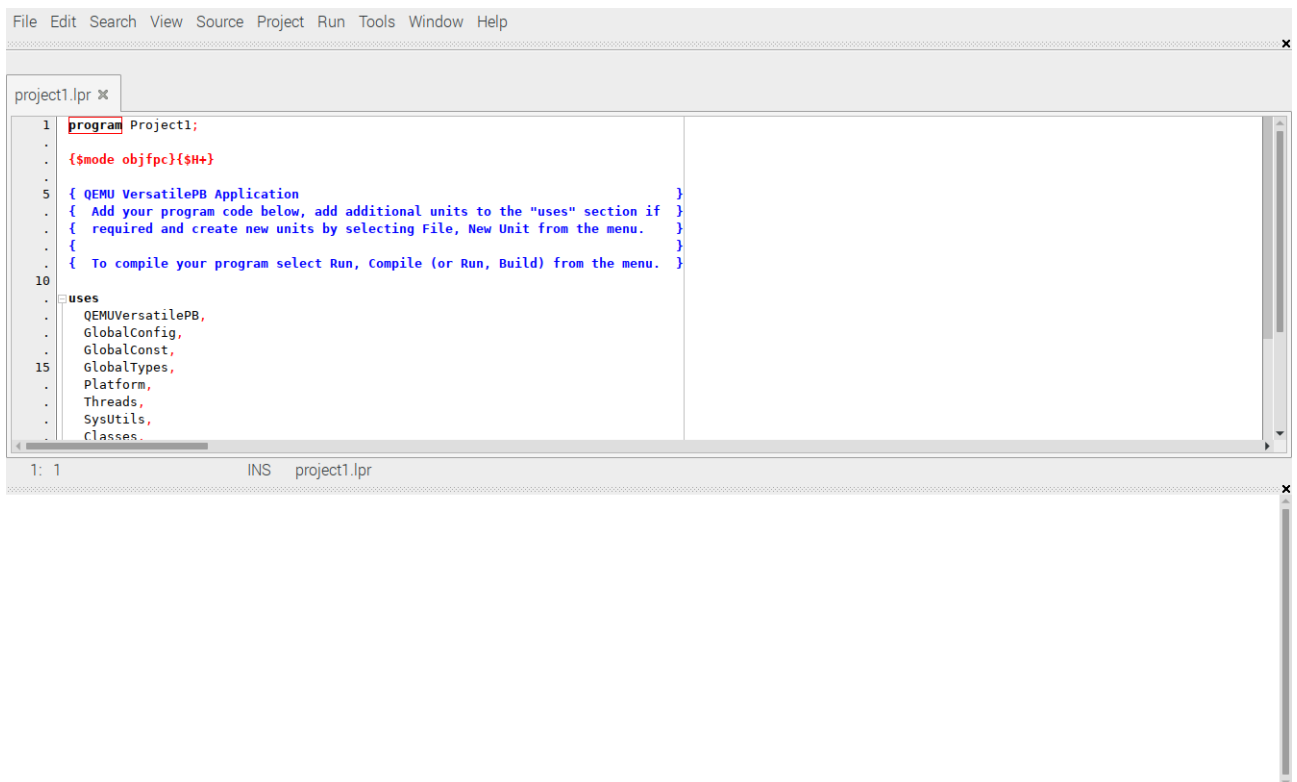
```
{Global constants}
const
  {Version constants}
  ULTIBO_RELEASE_DATE      = '21 July 2021';
  ULTIBO_RELEASE_NAME      = 'Beetroot';
  ULTIBO_RELEASE_VERSION   = '2.1.079';
  ULTIBO_RELEASE_VERSION_MAJOR = 2;
  ULTIBO_RELEASE_VERSION_MINOR = 1;
  ULTIBO_RELEASE_VERSION_REVISION = 079;
```



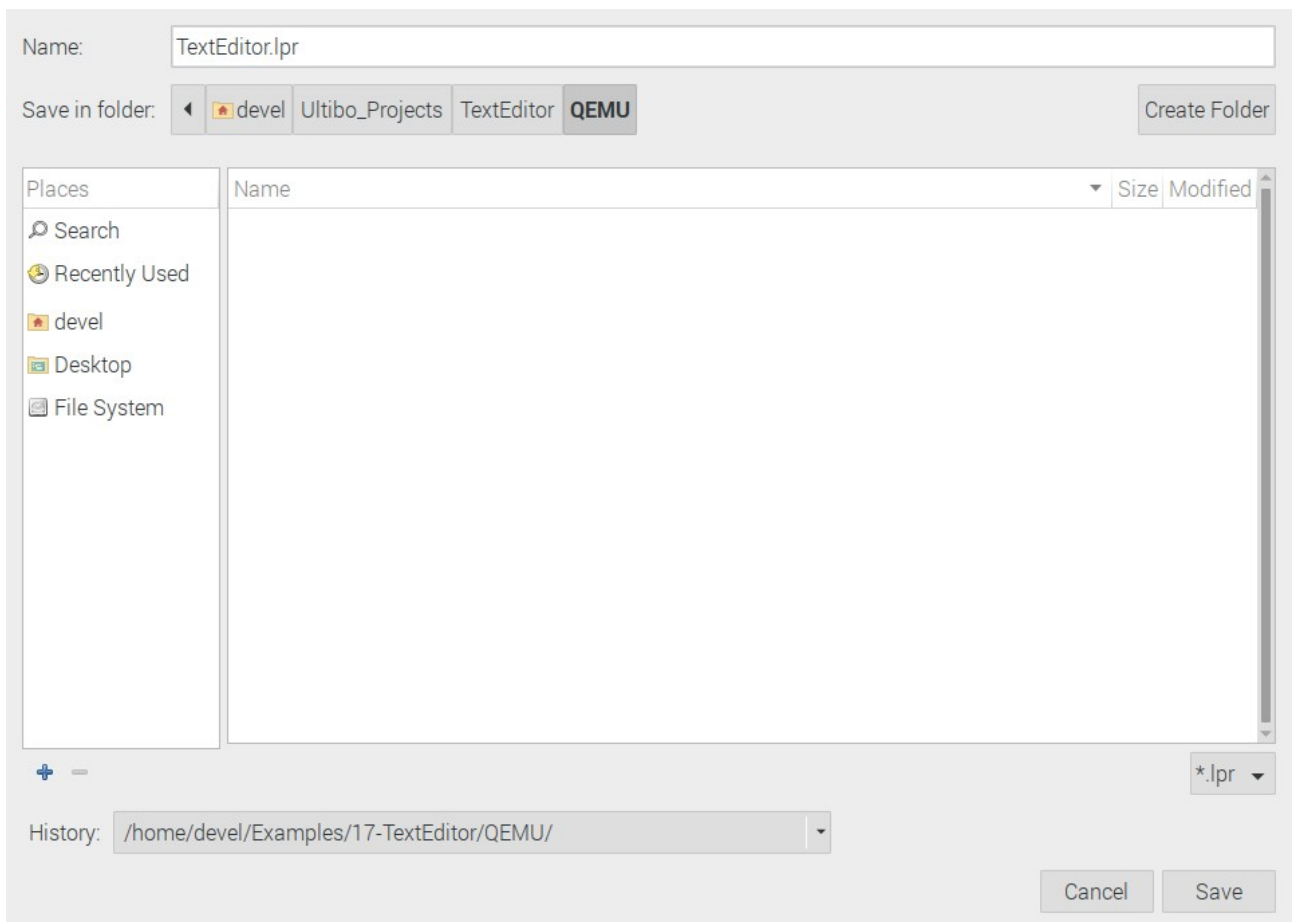
Select QEMU VersatilePB Application.



Depress OK

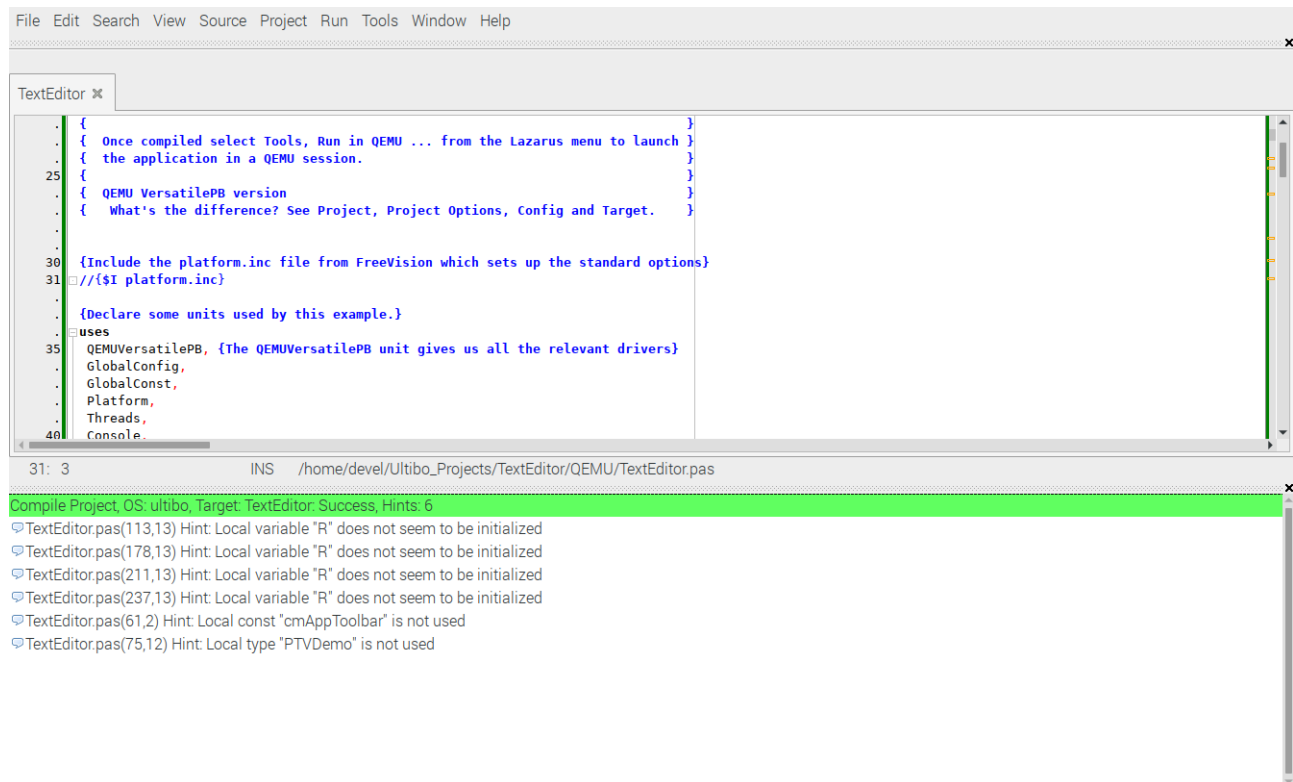


Paste The contents of Examples/17-TextEditor/QEMU/TextEditor.lpr



File/Save As Depress Save

Run/Compile The kernel.bin is created when the Green bar appers.



qemu-system-arm -machine versatilepb -cpu cortex-a8 -kernel kernel.bin -drive file=disk.img,if=sd,format=raw

Machine View

Ultibo Core (Release: Beetroot Version: 2.1.079 Date: 21 July 2021)

