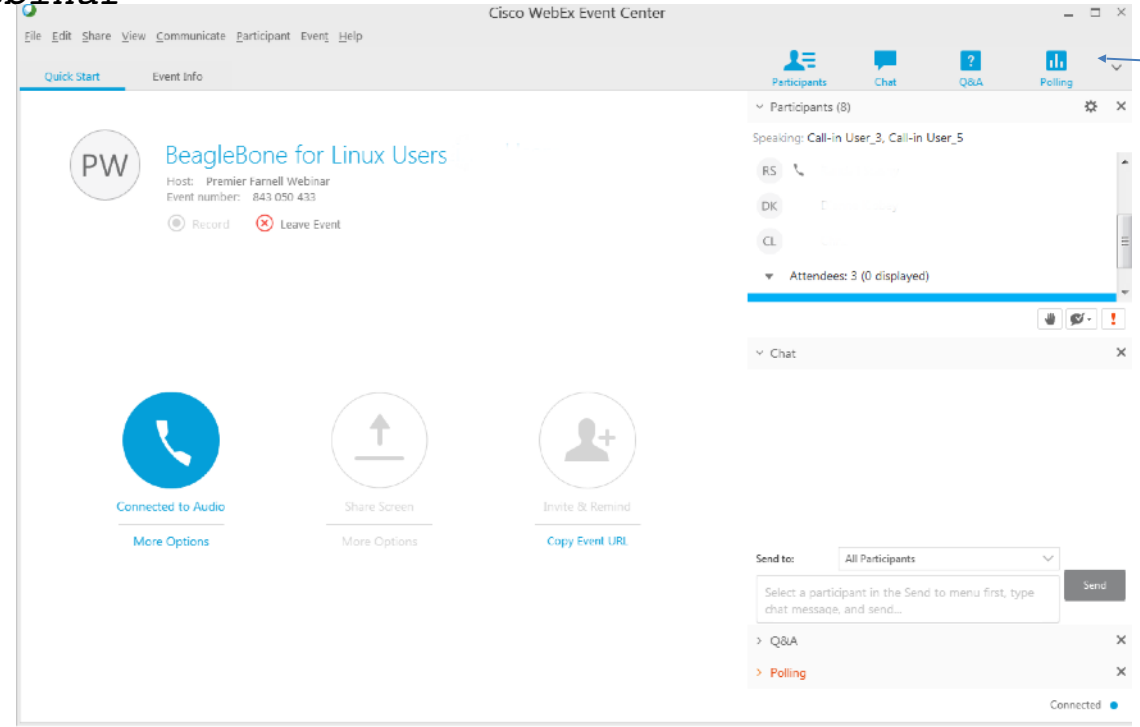
Welcome to "BeagleBone for Linux Users"
This webinar will begin on the hour.

- We invite you to join in the Chat, Q&A and Polls during this live webinar -



Join the Chat, Q&A and Polls Here

Farnell element14 Newark element14 element14 element14 COMMUNITY

beagleboard.org®

Training BeagleBoards

with Jason Kridner

Webinar 03 -
BeagleBone for Embedded Developers

Jason Kridner
Co-founder and board member at
BeagleBoard.org Foundation

Your DEVELOPMENT DISTRIBUTOR

Webinar Series

BeagleBone Webinar Series

Date	Time (UTC)	Topic
~~10th May~~	~~11:00 (CT) / 17:00 (UK)~~	~~Introduction to BeagleBoard.org and BeagleBone~~
~~24th May~~	~~11:00 (CT) / 17:00 (UK)~~	~~BeagleBone for Linux Users~~
6th June	11:00 (CT) / 17:00 (UK)	BeagleBone for Embedded Developers
21th June	11:00 (CT) / 17:00 (UK)	BeagleBone for Web Developers
12th July	11:00 (CT) / 17:00 (UK)	BeagleBone Blue for Robotics
26th July	11:00 (CT) / 17:00 (UK)	BeagleBone in the Classroom

Today's Topics

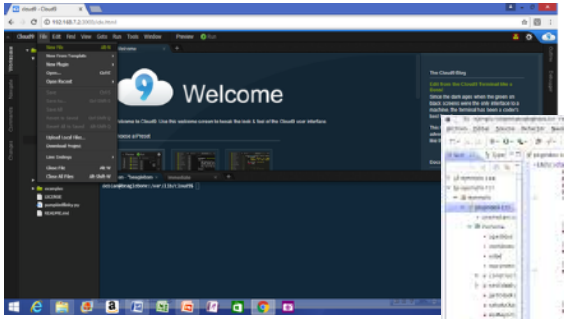
- Topics
  - What do we mean by Embedded Development ?
  - Which Languages are involved in Embedded Development?
  - Why use Assembly / C instead of something like Python
  - What are some tools for getting started in C/C++?
  - How to control the PRUs and hardware in low level languages
  - How to embed a BeagleBone into a product as a controller.

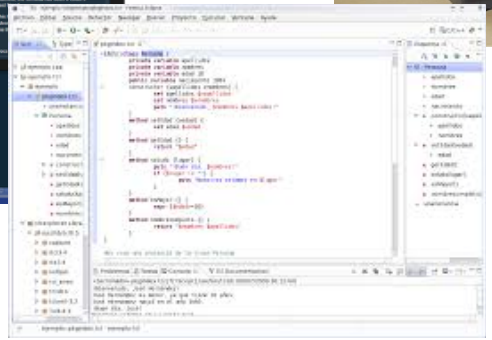
- Q&A
  - Posted Questions
  - Questions from chat

What do we mean by Embedded Development ?

beagleboard.org®

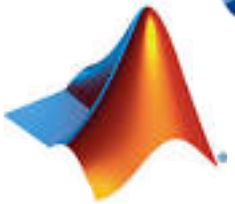
element14 COMMUNITY





Images from https://en.wikipedia.org

Which Languages are involved in Embedded Development?



Why use Assembly / C instead of something like Python?

beagleboard.org®
element14 COMMUNITY

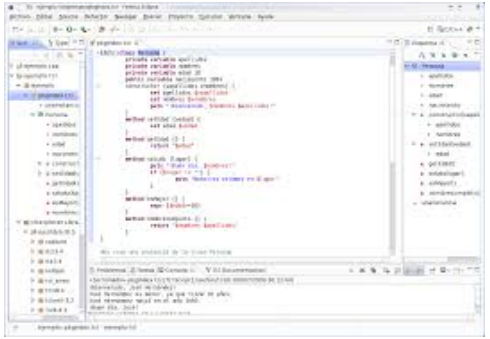
Images from https://en.wikipedia.org/

What are some tools for getting started in C/C++?

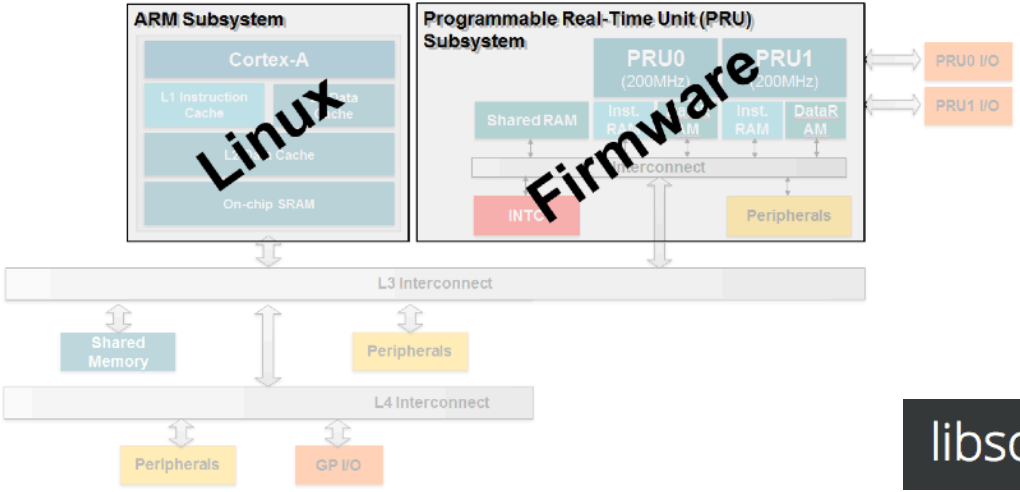
beagleboard.org®
element14 COMMUNITY

Qt

bbb.io/qt



How to control the PRUs and hardware in low level languages.

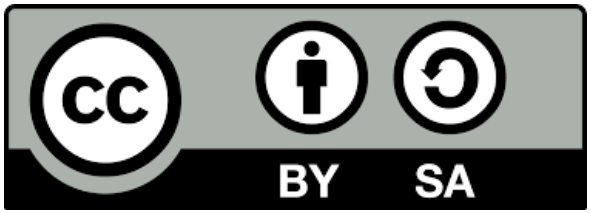


libsoc

PyPRUSS

How to embed a BeagleBone into a product as a controller.

beagleboard.org®
element14 COMMUNITY



Questions posted on the element14.com Community

- How do you interface with the GPIO within C / Assembly
- Which Languages would you recommend
- Would it be possible to explain the procedure of how to configure ADC with sampling rate clocked by some internal timer with data being transferred to a memory location using DMA? Or another example involving similar 3 connected components, including DMA?
- How to interface the 'Qt' framework on the beaglebone
- How do I start with configuring an analogue to digital converter with sampling rate clocked by some internal timer (of one exists) with data being transferred to a memory location using DMA?

Questions from the Webinar Chat.

Next Webinar Dates

beagleboard.org®
element14 COMMUNITY

Date	Time (UTC)	Topic
~~10th May~~	~~11:00 (CT) / 17:00 (UK)~~	~~Introduction to BeagleBoard.org~~
~~24th May~~	~~11:00 (CT) / 17:00 (UK)~~	~~BeagleBone for Linux Users~~
~~6th June~~	~~11:00 (CT) / 17:00 (UK)~~	~~BeagleBone for Embedded Developers~~
21th June	11:00 (CT) / 17:00 (UK)	BeagleBone for Web Developers
12th July	11:00 (CT) / 17:00 (UK)	BeagleBone Blue for Robotics
26th July	11:00 (CT) / 17:00 (UK)	BeagleBone in the Classroom

Other Resources

www.beagleboard.org

www.element14.com/beagleboard