The Go Programming Language

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2024/10/11

Introduction

The ***gccgo***, a compiler for the ***Go*** language, is a new frontend for ***GCC***. Note that gccgo is not the gc compiler, normally it used as part of GCC. The GCC 9 releases include a complete implementation of the Go 1.12.2 release. Building gccgo is just like building GCC with one or two additional options. When run configure, add the option ***--enable-languages=c,c++,go*** to support Go language support.

Introduction

// A 'Hello, 世界' program written in Go language

```
package main

import "fmt"

func main() {
   fmt.Println("Hello, 世界")
}
```

Using gccgo

1. Open a Terminal window
2. Add Go cross compiler to the PATH
   $ export PATH=/path/to/buildroot/output/host/bin:$PATH
3. Compile a Go source file
   $ aarch64-linux-gccgo hello.go

Patching Buildroot to support Go language

1. Obtain the patch *enable-go-language-support-in-buildroot-2021.patch* for **Buildroot 2021**, the patch *enable-go-language-support-in-buildroot-2024.patch* for **Buildroot 2024**.
2. Put the patch in the root directory of Buildroot.
3. Apply the patch
   $ git apply –verbose *enable-go-language-support-in-buildroot-2021.patch*
   or
   $ git am < *enable-go-language-support-in-buildroot-2024.patch*

Configuring Buildroot to support Go language

Perform ***make menuconfig*** to configure Buildroot to enable Go language support.

→Toolchain

[*] Enable Go support

It should clean build before generating the cross compiler go by performing the command in shell command line

$ make clean && make

References

- The Go Programming Language
  https://go.dev/

- Go by Example
  https://gobyexample.com/

Joy of innovation

NUVOTON

谢谢

謝謝

Děkuji

Bedankt

Thank you

Kiitos

Merci

Danke

Grazie

ありがとう

감사합니다

Dziękujemy

Obrigado

Спасибо

Gracias

Teşekkür ederim

Cảm ơn