Linux Rapid Embedded Programming

Rapid Embedded Development with LPCXpresso - Rapid Embedded Development with LPCXpresso 54 minutes - Since the introduction of the first variants in 2009, the LPCXpresso **development**, platform has re-energized the whole MCU ...

The LPCXpresso Ecosystem

LPCXpresso V2 Boards - Debug

The Original LPCXpresso boards

LPCXpresso IDE v7

What is Embedded Programming? #programming #lowcode #tech #codinglessons #security - What is Embedded Programming? #programming #lowcode #tech #codinglessons #security by Low Level 1,076,073 views 1 year ago 48 seconds – play Short - Magic Addresses #Cplusplus #CodingTips #OperatorOverloading #MatrixMultiplication #CodeTricks COURSES Check ...

Linux Device Drivers Development Course for Beginners - Linux Device Drivers Development Course for Beginners 5 hours - Learn how to develop **Linux**, device drivers. They are the essential software that bridges the gap between your operating system ...

Who we are and our mission

Introduction and layout of the course

Sandbox environment for experimentation

Setup for Mac

Setup for Linux

Setup for Windows

Relaunching multipass and installing utilities

Linux Kernel, System and Bootup

User Space, Kernel Space, System calls and device drivers

File and file ops w.r.t device drivers

Our first loadable module

Deep Dive - make and makefile

lsmod utility

insmod w.r.t module and the kernel

rmmod w.r.t module and the kernel

modinfo and the .mod.c file

proc file system, system calls

Exploring the /proc FS

Creating a file entry in /proc

Implementing the read operation

Passing data from the kernel space to user space

User space app and a small challenge

Quick recap and where to next?

Junior vs senior python developer ? | #python #coding #programming #shorts @Codingknowledge-yt - Junior vs senior python developer ? | #python #coding #programming #shorts @Codingknowledge-yt by Coding knowledge 599,292 views 10 months ago 18 seconds – play Short - Junior vs senior python developer | #python #**coding**, #javascript #**programming**, @Codingknowledge-yt @Codingknowledge-yt ...

Introduction to Embedded Linux Part 1 - Buildroot | Digi-Key Electronics - Introduction to Embedded Linux Part 1 - Buildroot | Digi-Key Electronics 25 minutes - Linux, is a powerful operating system that can be compiled for a number of platforms and architectures. One of the biggest draws is ...

Why Hardware Abstraction Layers are AMAZING #EmbeddedRust #UnsafeCode #InterruptDriven #Programming - Why Hardware Abstraction Layers are AMAZING #EmbeddedRust #UnsafeCode #InterruptDriven #Programming by Low Level 226,932 views 1 year ago 1 minute – play Short - ?? Curious about **embedded**, rust code? Learn why it inevitably includes unsafe code and how it differs from unsafe C.

10 years of embedded coding in 10 minutes - 10 years of embedded coding in 10 minutes 10 minutes, 2 seconds - Want to Support This Channel? Use the \"THANKS\" button to donate :) Hey all! Today I'm sharing about my experiences in ...

Intro

College Experience

Washington State University

Rochester New York

Automation

New Technology

Software Development

Outro

Making Simple BIOS From Scratch (x86) - Making Simple BIOS From Scratch (x86) 12 minutes, 45 seconds - In this video I will demonstrate how to create a simple BIOS for QEMU that prints hello to the console. Installations: See the ...

Linux Operating System - Crash Course for Beginners - Linux Operating System - Crash Course for Beginners 2 hours, 47 minutes - Learn the basics of the **Linux**, Operating System in this crash course for beginners. **Linux**, is a clone of the UNIX operating system, ...

Intro

Install Linux

Desktop Environment

Terminal

Working with Directories

Working with Files

Working with File Content

Linux File Structure

Networking

Linux Package Manager

Text Editor

Outro

Stop Wasting Time - 10 Docker Projects You'll Actually Want to Keep Running - Stop Wasting Time - 10 Docker Projects You'll Actually Want to Keep Running 22 minutes - In this video I'm walking you through 10 Docker projects (containers) you can spin up in a single weekend and actually put to use ...

Introduction

Gitea

Netdata

Nginx Proxy Manager (NPM)

Bitwarden

Watchtower

Dozzle

Portainer

OpenWebUI and Ollama

HomeAssistant

n8n

Wrapping up Docker Projects

How Does Linux Boot Process Work? - How Does Linux Boot Process Work? 4 minutes, 44 seconds - Get a Free System Design PDF with 158 pages by subscribing to our weekly newsletter: https://bytebytego.ck.page/subscribe ...

How Microcontroller Memory Works | Embedded System Project Series #16 - How Microcontroller Memory Works | Embedded System Project Series #16 34 minutes - I explain how microcontroller memory works with a code example. I use my IDE's memory browser to see where different variables ...

Overview

Flash and RAM

From source code to memory

Code example

Different variables

Program code

Linker script

Memory browser and Map file

Surprising flash usage

Tool 1: Total flash usage

Tool 2: readelf

git commit

Secret History #1: How Power Works - Secret History #1: How Power Works 1 hour, 11 minutes - In this lecture, Professor Jiang proposes that by studying geo-politics we can develop analytical frameworks that permit us to ...

Every LINUX DISTRO Explained in 4 minutes - Every LINUX DISTRO Explained in 4 minutes 4 minutes, 3 seconds - Welcome to : Every **LINUX**, DISTRO Explained in 4 minutes i hope you enjoyed this video about the Top **linux**, distros and their ...

Ubuntu

CentOS

Fedora

Debian

RedHat

Mint

OpenSUSE

Manjaro

Elementary

ZorinOS

kali Linux

Arch Linux

How to Avoid Writing Device Drivers for Embedded Linux - Chris Simmonds, 2net - How to Avoid Writing Device Drivers for Embedded Linux - Chris Simmonds, 2net 41 minutes - How to Avoid Writing Device Drivers for **Embedded Linux**, - Chris Simmonds, 2net Writing device drivers is time consuming and ...

Intro

About Chris Simmonds

Conventional device driver model

How applications interact device drivers

A note about device trees

GPIO: General Purpose Input/Output

Two userspace drivers!

The gpiolib systs interface

Inside a gplochip

Exporting a GPIO pin

Inputs and outputs

Interrupts

The gpio-cdev interface

gpio-cdev example 22

PWM: Pulse-Width Modulation

The PWM systs interface

Exporting a PWM

PWM example

12C: the Inter IC bus

The 12c-dev driver

Detecting 12c slaves using cdetect

12C code example - light sensor, addr 0x39

Other examples

What are you missing?

Getting to Know the Linux Kernel: A Beginner's Guide - Kelsey Steele \u0026 Nischala Yelchuri, Microsoft - Getting to Know the Linux Kernel: A Beginner's Guide - Kelsey Steele \u0026 Nischala Yelchuri, Microsoft 42 minutes - Getting to Know the **Linux**, Kernel: A Beginner's Guide - Kelsey Steele \u0026 Nischala Yelchuri, Microsoft \"Getting to Know the **Linux**, ...

Introduction

What is the Linux Kernel

Subsystem Structure

Kernel Tree

Linux Kernel Archives

Customize Your Kernel

Modifying Code

Building the Kernel

Testing the Kernel

Config Flags

Upstream

Long Term Support

Mailing Lists

Getting Started

Reporting Bugs

Documentation

Nuvoton Chili board with Linux OS, featured in it's compact size, rapid in development - Nuvoton Chili board with Linux OS, featured in it's compact size, rapid in development 1 minute, 30 seconds - Nuvoton provides a new **development**, platform, Chili. Chili is designed by NUC980 family. A user can begin application ...

Chili features a 64MB DRAM density

chili supports Ethernet, USB

RS-485 and GPIO controls

5 life-changing Linux tips - 5 life-changing Linux tips by Fireship 1,425,888 views 10 months ago 46 seconds – play Short - Here are five **Linux**, command tricks that will change your life if you're a **programmer**,. mkdir { } cd - touch {1..100} tail -f history ...

Getting started with Embedded Linux - System on a module \u0026 my plans for a Embedded Linux Tutorial - Getting started with Embedded Linux - System on a module \u0026 my plans for a Embedded Linux Tutorial 8 minutes, 28 seconds - foss #gnu #**linux**, #embedded_systems #forlinx Here is my intro to a new series of videos. I want to show you how to get started ...

Intro

System on a module

Whats the catch

Carrier board

My plans

Rapid Embedded Prototyping with SiFive Software - Rapid Embedded Prototyping with SiFive Software 1 hour - Learn how to develop **embedded**, software for RISC-V processors using the SiFive Freedom E SDK. We will review the ...

Introduction

SiFive Background

SiFive Software

Embedded Software Ecosystem

Freedom SDK

Freedom SDK Structure

Design Metadata

Command Line Interface

Metal Library

Metal Directory

Tips Tricks

Conclusion

Setup

Toolchain

XE3S Pro

Software Development

Hardware Setup

Creating Your Own C Program

Demonstration

The Ultimate Road Map to Embedded Linux Development - The Ultimate Road Map to Embedded Linux Development 20 minutes - The Video provides complete roadmap to **Embedded Development**,. The various learning Tracks are discussed in this Video to ...

Fundamentals of Embedded Linux - Chris Simmons - NDC TechTown 2022 - Fundamentals of Embedded Linux - Chris Simmons - NDC TechTown 2022 1 hour, 4 minutes - Linux, is **embedded**, into many of the devices around us: WiFi routers, the navigation and entertainment system in most cars, smart ...

(Embedded) Linux Practice #4: Interrupt and Device Driver based I/O - (Embedded) Linux Practice #4: Interrupt and Device Driver based I/O by ??? 1,806 views 6 years ago 17 seconds – play Short

Embedded linux| core domain| Linux| kernal #youtubeshorts #youtubevideos #youtube #ytshort - Embedded linux| core domain| Linux| kernal #youtubeshorts #youtubevideos #youtube #ytshort by Shiva Embedded Linux 1,982 views 2 months ago 16 seconds – play Short

The Heaviest Linux Distro! - The Heaviest Linux Distro! by Reluctant Anarchist 1,131,095 views 1 year ago 1 minute – play Short - Everyone is talking about the most lightweight **Linux**, distro, but what about the heaviest one?

Advanced Linux Multi-Processing - Advanced Linux Multi-Processing 2 hours, 48 minutes - Streamed Live on Twitch: https://twitch.tv/tsoding Enable Subtitles for Twitch Chat Chapters: - 00:00:00 - Intro - 00:01:30 ...

Intro

Definition of the problem we have

Process Group API

Employing Process Groups in nob.h

Limitations of the Process Groups in nob.h

Checking the Legacy Invariant

RACE CONDITION DISCOVERED

Block the Child

Block the Parent

Alternative Solutions

Pipes Synchronization

posix_spawn

Employing Pipes Synchronization in nob.h

Testing the Corner Cases

Running the Benchmark

Something went wrong...

Another Benchmark Run

Investigation

Another Benchmark Run

It just worked fine!

ROOT CAUSE FOUND

Outro

Footnote

Easy Vim Motion - Easy Vim Motion by ThePrimeagen 836,711 views 1 year ago 28 seconds – play Short - #**coding**, #neovim #typescript #**programming**, #vim #softwareengineering #codinglife #webdesign #webdevelopment #webdev ...

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