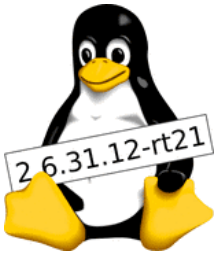
EmbeddedCraft
crafting of intelligent systems

FEBRUARY 2010 INFOLETTER

LATEST NEWS



Real Time Linux

» **Latest Real Time Linux 2.6.31.12-rt21**
Real Time Linux Kernel Patch
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» **ARM adds DSP to Cortex microcontrollers**
Cortex-M3 core with digital signal processing (DSP) instructions
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» **Finger Print Authentication IC with ARM7TDMI core**
MK67Q5250 from OKI Semiconductor haveARM7TDMI core
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» **IBM Unveils New POWER7 Systems To Manage Increasingly Data-Intensive Services**
Multi-core, 45 nanometer design, speeds= 4.1 GHz, 8-cores per socket, upto four threads per core
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i.MX51 Eval Kit

» **An 8.9″ Touchscreen Panel PC**
PDX-089T with 8.9" TFT LCD with support of Linux, Windows CE, DOS and Windows XP
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» **IAR Embedded Workbench 5.41 Released**
Added enhanced support for Cortex-R4F, trace triggers J-Trace for Cortex-M3
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» **Freescale i.MX51 Evaluation Kit**
i.MX51 is based on Cortex-A8 core, Board Support Packages (BSP) for Linux and Windows Embedded CE
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LATEST ARTICLES / TUTORIALS

MICROCHIP PIC18FXXX

Microchip Inc. Offers wide range of 8-bits Microcontroller from 6 pin to 100 pin, Different Memory Sizes from less than 1KB to 128 KB having PIC10, PIC12, PIC16, PIC18 series as per Application.

BASELINE ARCHITECTURE 12-bit instruction word (e.g., 12C5XX, 16C5X)

MID-RANGE ARCHITECTURE 14-bit instruction word (e.g., 16F8X, 16F87X)

HIGH PERFORMANCE ARCHITECTURE 16-bit instruction word (e.g., 18C7XX, 18C2XX, 18FXX

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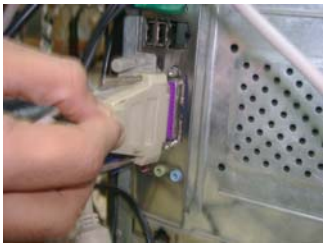
MICROCONTROLLER ISP PROGRAMMER FOR AT89S51/52 / AVR



Discrete components such diode, transistors and resistances and Digital ICs easy to use. Because discrete components and Digital ICs we can solder and check there working. But when we talk about microcontroller programming or embedded programming field, there is one hardware device necessary to test working to microcontroller on target board is called “Microcontroller Programmer”. Without that we can’t check code on target hardware.

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EMBEDDED ARM DEVELOPMENT USING ECLIPSE AND GCC

Every student and hobbyist always looks for free software development tools. In Embedded System field we have so many free and open source tools for different microcontrollers. For example he have free tools for ARM, 8051, PIC, POWER (formally PowerPC) etc.

In this article we will discuss software development tools for ARM processor family. The tools which we will discuss here are also used professionals.

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UPCOMING EVENTS

» IMBUENT EMBEDDED SYSTEM TECHNOLOGY DAY 20 MARCH -2010 INDIA
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» Embedded System Conference - 2010 INDIA
To read more **Click Here**

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MICROPROCESSOR TO WATCH

i.MX512 from Freescale (ARM Cortex –A8)

The i.MX512 multimedia applications processor offers high performance processing optimized with the lowest power consumption for HMI, printers, medical devices and eBooks. It features Freescale's advanced and power-efficient implementation of the ARM Cortex™-A8 core, which operates at speeds up to 800 MHz. Extended temperature is available for industrial focused devices running at up to 600 MHZ.

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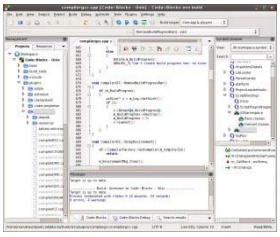
FREE DOWNLOAD

Code::Blocks IDE



Code::Blocks is a free C++ IDE built to meet the most demanding needs of its users. It is designed to be very extensible and fully configurable. Finally, an IDE with all the features you need, having a consistent look, feel and operation across platforms. Built around a plugin framework, Code::Blocks can be extended with plugins. Any kind of functionality can be added by installing/coding a plugin. For instance, compiling and debugging functionality is already provided by plugins!

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