JANUARY—2008 INFOLETTER

LATEST ARTICLES

WHAT NEXT AFTER 8051?

Some facts

1. People are using microcontrollers as per their work of domain.
   a. Ex: In Energy Meters TI's MSP430 Processors are used. (MSP430 is 16 bit processor)
   b. In Industrial and Mission critical applications Freescales's PowerPC processors are used. (PowerPCs are 32 bit processors)
   c. In mobile/handheld devices ARM processors are used. (ARMs are also 32 bit processors)
   d. In Low and medium application market is using mainly 8051 processors, PIC and AVR.
2. There is no any doubt that 8 bit processors will always there in market.
3. It is also fact that switching from one microcontroller to another of same category is not a difficult task, I mean if you know 8051 then no need to go through AVR and PIC. Unless you may not find something special in them which suite to your project.

That is about industry.

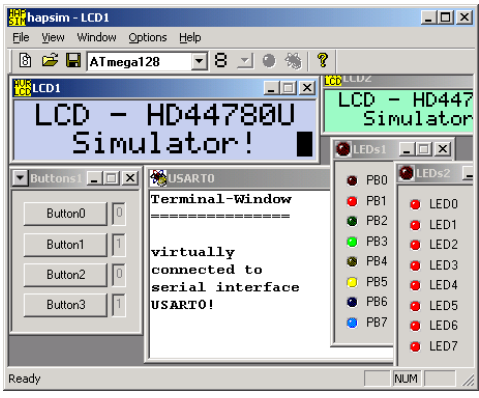
And as per me for beginning we should that is in market and tools to use it easily available and free. By considering all these I found ARM best for next. Specially ARM7. Because of following

- Easy to study.
- Study material and books are easily available.
- Free/Open source Software development tool chain is also available.
  - **Compiler** = gcc
  - **Debugger** = gdb
  - **IDE** = eclipse
- Development board is also available at cheap rates.

List of all development tools for ARM Click Here

TOOL CHAIN FOR AVR

AVR Studio (from ATMEL)



Features

- Integrated Development Environment for Writing, Compiling and Debugging Software
- Configurable Memory Views, Including SRAM, EEPROM, Flash, Registers, and I/Os
- Trace Buffer and Trigger Control
- Variable Watch/Edit Window with Drag-and-drop Function
- Extensive Program Flow Control Options
- Simulator Port Activity Logging and Pin Input Stimuli
- Support for C, Pascal, BASIC and Assembly Languages

To download AVR Studio Click Here

EmbeddedCraft
crafting of intelligent systems

Subscription to Free InfoLetter