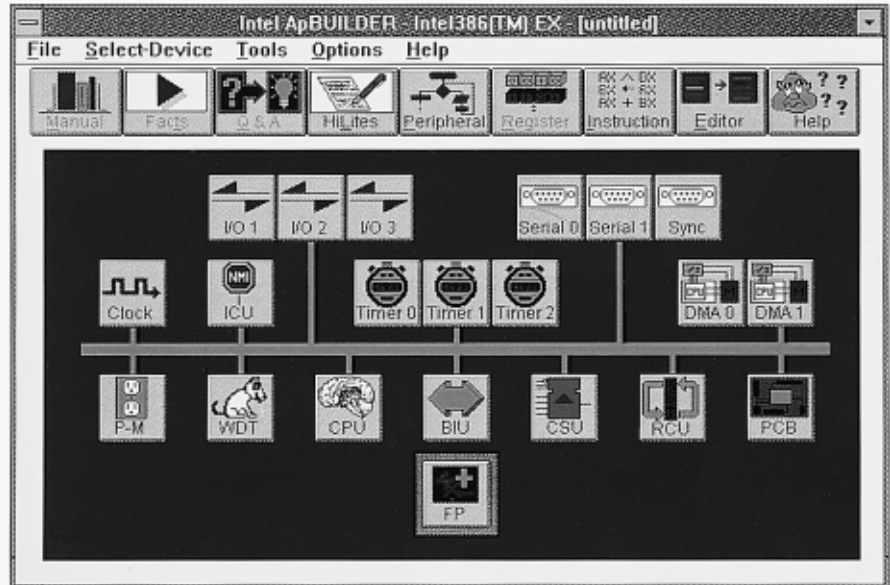# *Ap*BUILDER

- Interactive Programming Software For Embedded Applications
- Windows* Interface For Ease of Use
- Program Without Prior Knowledge of the Architecture
- Generate Microcontroller Peripheral Initialization Code With the Click of Your Mouse
- Code Generation in Assembler or C
- Context Sensitive Screens Interface Directly to Hypertext Device User's Manuals and Data Sheets
- Supports the Embedded Intel386™ Processor, MCS® 251, MCS 51, 186 and 196 Microcontroller Architectures
- Always Being Expanded and Improved to Cover New Devices
- FREE on Intel Bulletin Boards
- Generates Source Code in Assembler or C
- Design Section Generates Initialization Code For Integrated Peripherals Based on System Functionality
- Simple on Screen Templates Allow For Register Programming and Prevent Mistakes
- Instruction Editor Confirms Proper Instruction Syntax. Code Execution Clock Timing Calculations For Optimization are Also an Editor Feature
- Code Generation as a Function With Embedded Macro's For Ease of Configuration.
- Pull Down Windows Give You All Available Options of Each Device, and Automatically Checks For Invalid Configuration Combinations
- On Screen Help Text Provides Brief Explanations of Peripheral Last Touched by Mouse
- Hypertext Manuals Maps in Depth Technical Information to Each Screen. Scan Megabytes of Information in a Moment
- System Requirements: Windows 3.1, 386 PC or Above, VGA Monitor, 2 MB Hard Disk (Minimum), 1.4 MB Floppy and 4 MB RAM Memory

*Ap*BUILDER is a powerful tool for programming Intel's Embedded Processors. It was developed by Intel's factory Applications Engineers to reduce your learning curve and shorten the total design time. You can develop peripheral initialization code without prior knowledge of the architecture with just the click of your mouse! *Ap*BUILDER is your system expert on a disk. The software provides you with an interactive instruction and register editor, peripheral design capabilities, code optimization timing plus context sensitive links to the hypertext device user's manuals and data sheets.
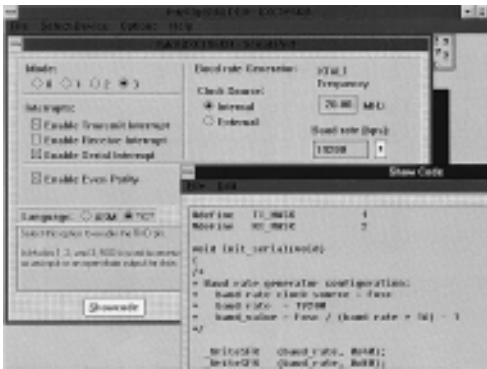
*Ap*BUILDER maps everything a programmer needs to each screen. All the options and configuration parameters for the device are displayed screen by screen. By simply pointing your mouse, you select only the valid options for the device. and it's flexible too. There's a design section that allows you to select the functionality of each integrated

peripheral. If you want to program a specific register, *Ap*BUILDER provides the on-line capability of picking and choosing the register bits you want to set. Choose either ASM or C output, hit the "Show Code" button and the source code can be copied to the clipboard. Simply paste the routine from the clipboard to your editor and combine it with your system code. *Ap*BUILDER's code is fully commented and generated as a function or subroutine callable by your system code. In addition, the factory experts have designed the functions with Macros. This programming technique enables the
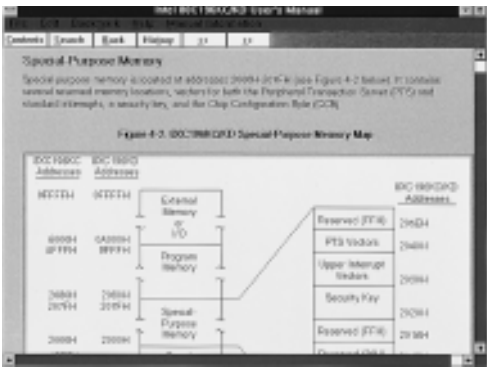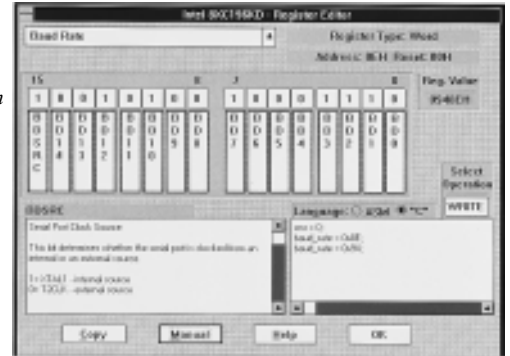
C O N T A C T :

Local Intel Sales Office
WWW: http://www.intel.com/embedded/

Generate peripheral code as easily as a click of your mouse!

Register editor lets you set every bit while checking for invalid configuration combinations.

Hypertext technical manuals and data sheets. Scan megabytes of data in a moment!

ApBUILDER maps everything a programmer needs to each screen.

developer to quickly change some configuration parameters (lets say due to a H/W design change) by just changing one macro flag. Without Macros, the developer must edit the entire code affected by the change parameter.

What this means to you is even faster application development with easier modular code to use.

Learn as you program. Technical information when you want it – as you need it! *Ap*BUILDER screens are context sensitive. Just use your mouse to touch a bit, flag, register or instruction then hit the "Manual" button and the built in hyper-text link will take you right to the paragraph in the device user's manual. *Ap*BUILDER makes it easy to learn while you program. This reduces your learning curve while shortening development time. With Intel's hypertext manuals and data sheets its easy to make copies or share them over a network too. Plus, they're FREE!

Bulletin Board Availability 24 Hrs./Day
Ever need support in the middle of the night, or wonder if you have the most current data sheet? *Ap*BUILDER, the hyper-text device user's manuals and data sheets are all modular and available on Intel's Bulletin Boards 24 Hrs./day.

U.S.A.   (916) 356-3600
Europe 44 (0)-1793-496340

*Ap*BUILDER is constantly being updated with new Intel microcontrollers. Hypertext manuals and data sheets are being added. Updates, improvements and errata fixes assure you that the most current technical information is always accessible from the bulletin board. This gives you FREE updates anytime you need it. Additionally, the BBS S/W is modular so that you only download the product architecture or manual that you want, reducing your phone connection time.