



## On-Chip Debug for Computer System Development



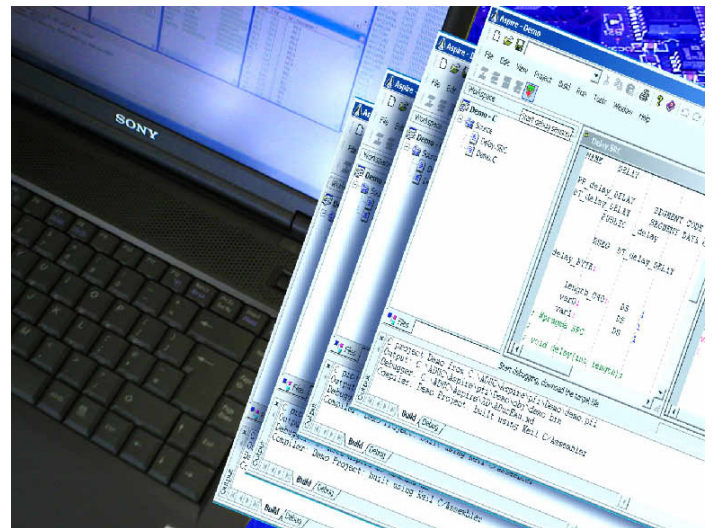
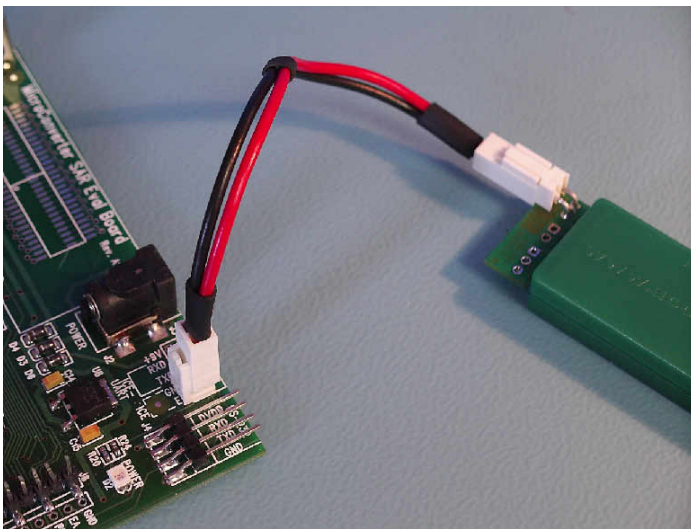
**Type of Project**  
Product Development

### Client Brief

For microprocessor system development, debug hooks are needed to access the microprocessors internal structures, so special chips must be fabricated at a high cost. By building these hooks on to the silicon, and accessing them serially through a new processor pin, a standard microprocessor IC could then be used for debug.

### Accutron Solution

Accutron designed on-chip debug hooks, which was then made available on the standard IC part. In addition, it designed and implemented the hardware (USB-based) and software (IDE, compiler, debugger) to exploit these debug features. The end-product was used by the client's customers worldwide to develop computer-based products.



### Skills Employed

- Concept and System Design
- IC Design
- USB System Design
- C/C++ Programming