Recognising the ARM architecture as potentially the most ubiquitous embedded platform since the 8051, new from IAR Systems Ltd, comes a sub £500 ARM-based Development Environment, which supports for ARM7, ARM9, ARM9E™, ARM10 and XScale™, and provides support for ARM Multi-ICE and other RDI-based JTAG interfaces.

The New ARM “Baby” Kit will allow sub 32-bit design engineers to investigate migrating up to the Atmel AT91, one of the most popular non-bespoke ARM based chips on the market. The kit comprises the MacGraigor® Wiggler, the Atmel® AT91EB40A board, and a 32K byte limited IAR Systems Embedded Workbench Suite. The kit is also supplied with all the cables required, and ships in a sturdy case.

The MacGraigor® Wiggler is a parallel port interface for either JTAG or BDM debugging. Slower than the Raven, it is however a stable, easy to use device and fully compatible with all relevant ARM software. The Atmel AT91EB board Evaluation Board consists of an AT91R40807 together with several peripherals.

Including two serial ports, reset button, three application buttons, three LEDs, 512K bytes 16-bit SRAM (upgradable to 2048K bytes), 128K bytes 16-bit Flash (of which 64K bytes is available for user software) and 20-pin JTAG interface connector. The IAR Embedded Workbench for ARM is based on IAR’s latest compiler and debugger technology — an open architecture that allows plug-in modules from both IAR and its partners to enrich the toolkit continuously. The latest release includes: Extended C++ support including C++ templates, CMX-RTX RTOS plugin, support for ARM Angel, support for EPI Jeeni and is wrapped up in IAR’s new Integrated Development Environment (IDE), which is a modular and extensible IDE running under Windows 98 to XP, that creates projects, edit files, compile, assemble, link and debug your applications within the seamlessly integrated environment and has tool options configurable on global group of source files, or individual source files level.

**Key Elements of the Embedded Workbench are:**

- **C / Embedded C++ Compiler**
- **C-SPY Debugger**
- **C-SPY Hardware debugging support**
- **Assembler**
- **Linker**
- **Librarian**
- **User guides**

As part of the IAR Systems “Pay As You Grow” strategy, the user is invited after time, to trade-in and upgrade to the ARM Full Kit (based on the MacGraigor® Raven, Atmel® AT91EBx board, MacGraigor Flash Programming Tool and Full IAR Systems Compiler Suite. The MacGraigor Raven is a parallel port interface for JTAG or BDM debugging. It is faster than a Wiggler and can run at a clock speed of 8 MHz.

The IAR Embedded Workbench EWARM offers an Integrated Development Environment for these microcontrollers:

- **ARM cores:** ARM7 (ARM7TDI®, ARM7TDMI-S™ and ARM720T™), ARM9 (ARM922T™, ARM922T™ and ARM940T™), ARM9E (ARM946E-S™ and ARM966E-S™), ARM10 (ARM1020E and ARM1022E) and Inter® XScale™
- **Atmel:** AT91-AT91M40400, AT91M40800, AT91R40807, AT91M40807, AT91M42800, AT91M55800, AT91ME3200, AT91M40400
- **OKI:** ML670100, ML671000, ML672300
- **Samsung:** SC3400, S3C44A0A, S3C44BOX, S3C4510B, S3C4610, S3C4640, S3C4650, S3C8800, S3F380D, KS32C6400
- **Sharp:** LH77790B

**MacGraigor Wiggler Supports:**

ARM ARM7 14 pin header (WNP-J-ARM-14), ARM ARM7 20 pin header (WNP-J-ARM-20), Cirrus ARM7 14 pin header (WNP-J-ARM-14), Cirrus ARM7 20 pin header (WNP-J-ARM-20), Intel XScale (WNP-J-ARM-20), Triscend A7 (WNP-J-ARM-20),

For more information visit www.iar.com