



**MicroProcessor
Engineering Limited**

Company: MPE Microprocessor Engineering

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MPE enables quick start into Embedded Design with Free Forth LITE Compilers for ARM Cortex M and TI MSP430 Kits

Southampton, UK – 29 April 2014 – MPE today announced the availability of new free LITE Compilers in Forth for ARM Cortex M and TI MSP430 cores, targeted at standard Development Kits. Forth as a special programming language is used in niche applications where interactive programming, fast time to prototypes and incremental code generation are needed – or when it gets difficult. High Integrity System requirements are increasing in Medical, Rail and Robot applications, where the most resilient and robust development processes are called for and Forth is well suited. In contrast to other languages all of the tools are integrated and the LITE compiler will reside on the microcontrollers targeted – no additional tools required; the PC connected is mainly used as a terminal function, making remote servicing easier. Code generated is directly compiled into FLASH. A USB connection, or even RS232, are sufficient for in the field changes; software can be adapted, code changed, without using any additional tool chain. Ideal for service or testing.

C programmers often neglect the advantages of this approach, the entry into starting with Forth, or combining the advantages of both. MPE decided to lower the entry level cost to zero; and targets the well introduced development boards from ST and TI as a first step: STM32F072B Discovery Board and MSP430G2553 Launchpad, others will follow.

Many of these boards are in designer's hands now, ready to just download the new software and try it out. More starting-up support will be added soon on the MPE website.

LITE versions are just limited in code size compared to the full Forth compilers, sufficient for small to medium size applications. And if the limit of code size as been reached, there is the cost effective path to the full Forth Compiler version. For details please see <http://www.mpeforth.com/xc7.htm>

About MPE Microprocessor Engineering

MPE is a privately held company based in Southampton UK, founded in 1981 to develop and sell software tools such as compilers, specialising in real-time embedded systems.

Professional and Standard compilers are available for: ARM and Cortex-M0/M1/M3/M4, ARM/StrongARM/XScale, 386/486/Pentium, H8S, H8/300H and H8/Tiny, Coldfire, 9S12/68HC12, MSP430 and 8051.

LITE compilers: for ARM Cortex-M and MSP430.

In addition MPE offers hardware and software consultancy. We have particular expertise in high-performance Forth systems and rapid compilation.

Our products are used in application areas such as glass-grinding, payment terminals, vending machines, bomb-disposal and construction planning. It has been used in products all over the world and as far as comets and Mars.

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