



Ultimate project support for the Texas Instruments MSP430 - edit, compile, debug and trace in one development environment

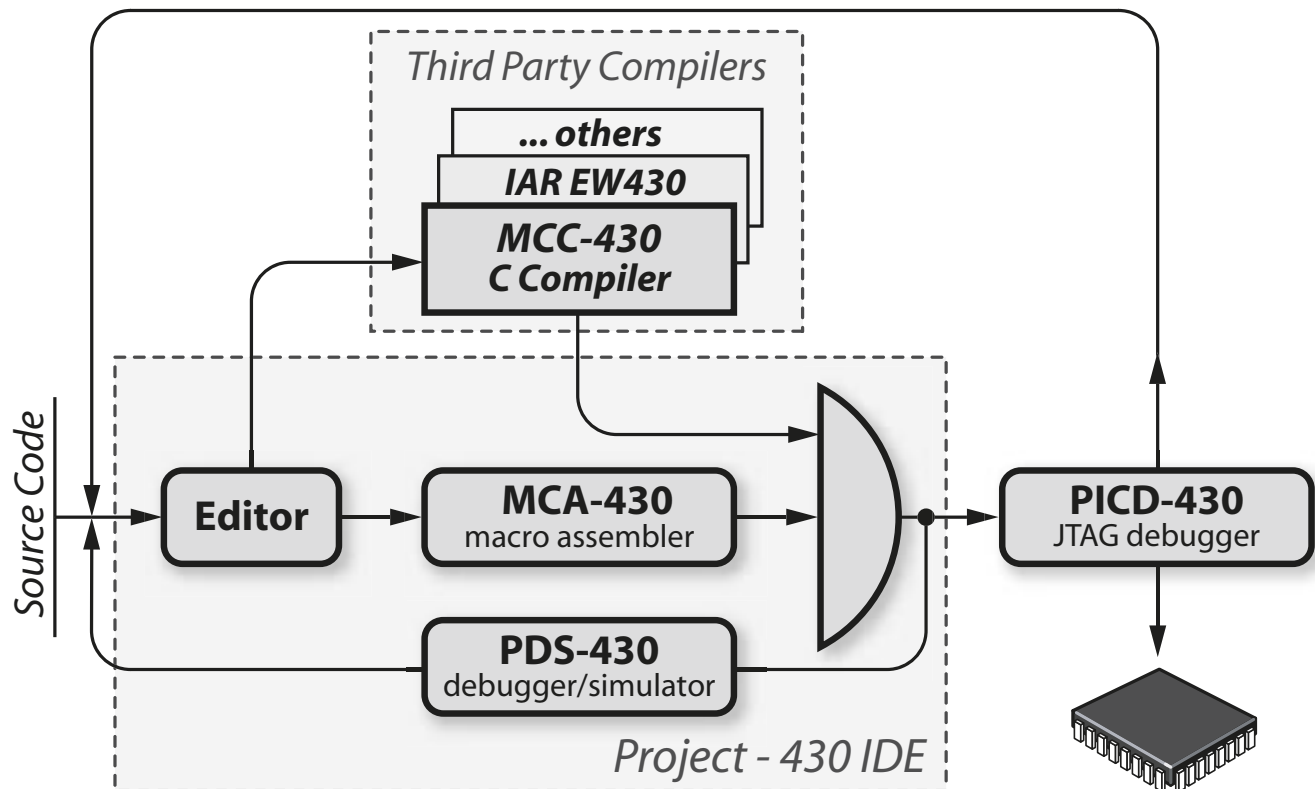
- Supports entire MSP430 family and future derivatives*
- IDE shell with a project manager and MCA-430 macro assembler available at no charge*
- Integrates MCC-430 C compiler from MicroCOSM-ST or IAR MSP430 C compiler and provides project management for these tools
- TI MSP430 Flash Emulation Tool (MSP-FET430) can be hooked up to the system and featured by a C compiler and enhanced emulation and tracing functions
- PDS-430 command set software simulator for all popular C compilers
- PICD-430 in-circuit JTAG debugger provides in-system flash programming, real-time run and single step program execution, breakpoints, and real-time tracing**
- High-level steps for C programs and low-level steps for assembly code
- Up to 8 unconditional breakpoints at the address, or the range of addresses, in code memory
- Up to 8 breakpoints on access to data memory - read, write or read/write
- Up to 8 breakpoints on a cycle type
- Four complex breakpoints/triggers that can be programmed to get a complex (AND, OR, and Sequential) condition for the program break or trace control
- Enables to examine and modify internal resources of the target MSP430 MCU when execution is stopped
- For some MSP430 derivatives internal clock can be enabled after the break so the target MCU will continue generate tact signals for an external LCD or other peripherals
- Trace buffer records 40-bit frames displaying real-time signals on the internal MSP430 bus: 16 lines of address, 16 lines of data and 8 controls
- Depth of the trace buffer is defined by a particular MSP430 type (8 frames min)
- Filtering and searching trace frames
- Several tracing modes: forward (start on trigger, stop on the buffer overflow), reverse (start on command, stop on trigger) and dynamical (start on one trigger, stop on another)
- Target MCU status can be monitored on-the fly without stopping real-time run
- Interfaces to a PC via a high-speed USB port
- Works under control of Windows 9x/ME/2000/NT/XP

* Visit <http://www.phyton.com> to get the newest software update and list of supported devices

** Tracing is available only for some MSP430 derivatives

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Phyton offers a complete development tool solution for the MSP430 microcontrollers produced by Texas Instruments



A full Project-430 package includes the MCC-430 C compiler (or the IAR MSP430 C compiler), MCA-430 macro assembler, PDS-430 command set debugger/simulator and PICD-430 in-circuit JTAG debugger integrated under control of the project IDE. Instead of the Phyton PICD-430 debugger the IDE can integrate a very popular TI MSP430 Flash Emulation Tool (MSP-FET430). This tool set provides a complete development cycle, from editing source texts to getting debugged code burned into the target microcontroller. You can select only those tools you need and order the configuration that fits your needs and your budget.