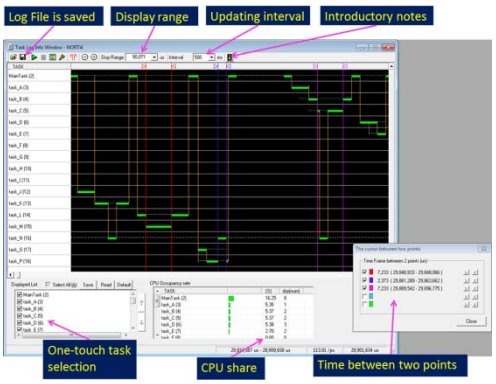
WATCHPOINT MAIN FUNCTIONS LIST

Sohwa & Sophia Technologies

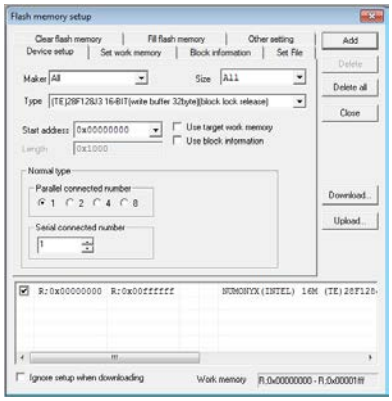
RTOS Task Transitions Graphic Display



The OS task transitions display allows you to view time-series transition data for each task of OS and to review the occupancy rate of each task graphically. By profiling, it can be used as an indicator for the task flow optimization measures including improvement of task execution time and modification of the priority so that each task may be completed within the setting time. *1

*1: Refer to our web site for detailed information about the latest supporting CPUs.

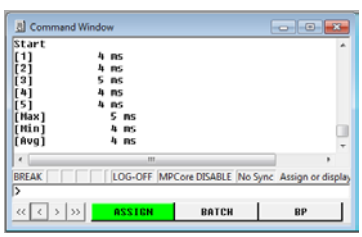
Flash Memory Download



By only choosing a device of flash memory from pre-defined menu and set start address, the number of bit and the number of memory to be connected etc., you can download programs directly from debugger to flash memory on target system. It is not necessary to prepare another program such as software for flash programming or PROM writer. *2

*2: Special program for writing is required for NAND type.

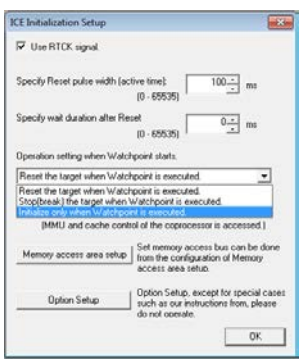
Easy Performance Measurement



Easy Performance measurement records the CPU execution time for a specified range and can be used to measure the program execution time. The measurement cycle can be repeated a number of times, so Easy Performance measurement result displays each execution time along with an average of all execution cycle times. It can also record for CPUs that do not have trace capability. *4

*4: Supports CPUs of ARM series and RX600 series

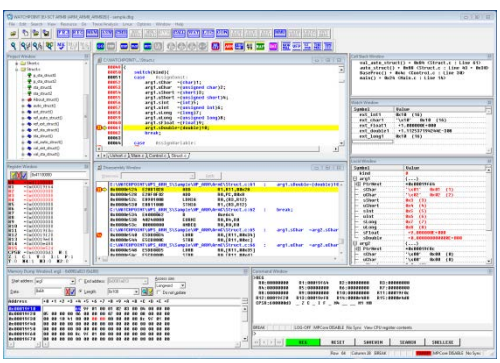
Starting without Reset



When using hot plug adapter together, you can start WATCHPOINT (WP) without reset of CPU, and can start debugging smoothly after a problem occurs. *5

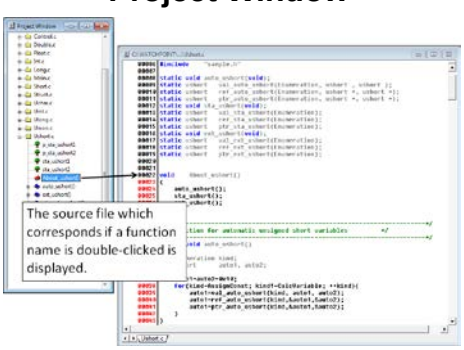
*5: In case that WP does not support hot plug adapter, by choosing “Initialization only” in “Setting when starting ICE”, WP can be started again without reset of CPU after a problem occurs at target

Docking of Windows



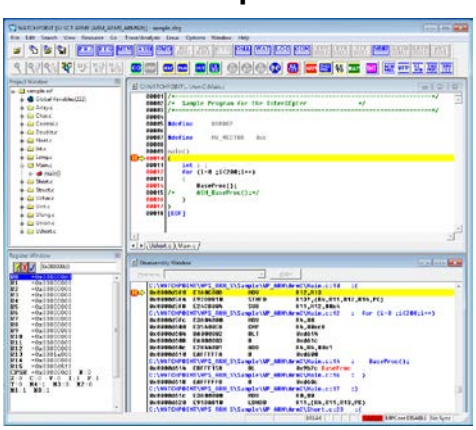
The child window inside WATCHPOINT (except for the source window) is available to be fixed by pasting to any of the four directions (sides) and to be placed on the outside of the main window.

Project Window



The project window displays the file name of currently downloaded module, the linked source-files and source file’s functions, etc. in a tree format. Double-clicking on a source file name automatically opens a Source Window, and double-clicking on a function name automatically moves cursor to the location where the function is defined and displays the code, so you can quickly move onto specific areas of your code.

Breakpoint



You can set hardware breakpoints in detailed hardware level such as breaks by access of memory or I/O. The number of software breakpoints is unlimited and it is possible to set to RAM or flash memory.

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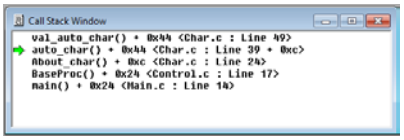
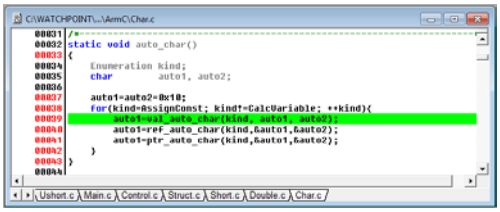
Call Stack Window
(The back trace of executed functions)

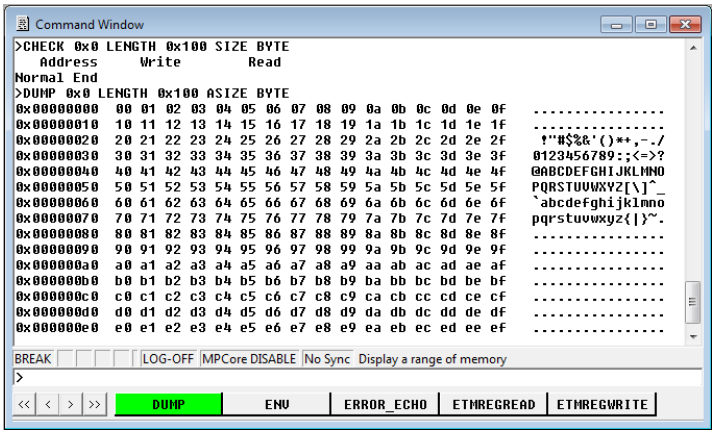


Double-clicking on a function name on the stack will open the Source window and display the calling source code.



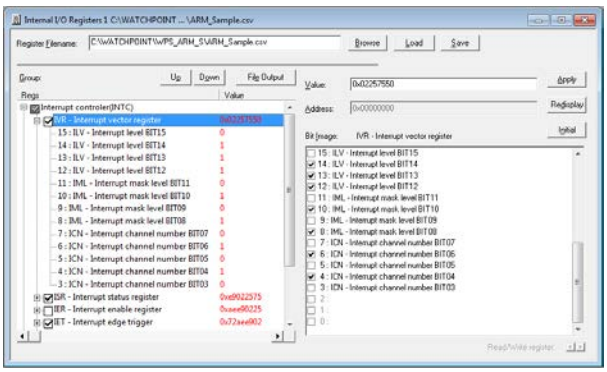
The call stack window displays the back trace of executed C functions from the stack frame. All functions (function name, line number etc.) from the current function back to the main() function are displayed. In addition, you can use the features such as modification of the stack frame and execution to the indicated function.

Command Window



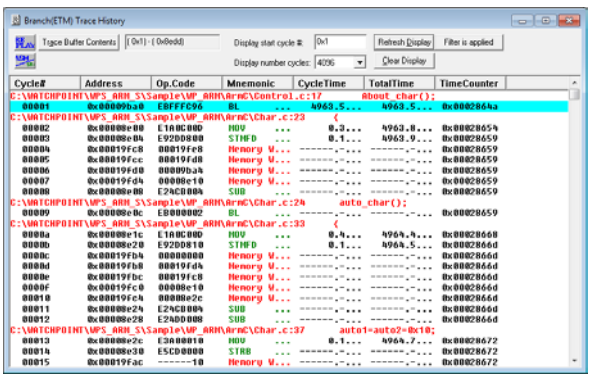
The command line interface allows you to control a debug session from the keyboard in addition to a debug control on Window GUI. Key in the first few letters of a command and Watchpoint will complete the command and its parameters. In addition, you can key in batch files for automatic execution and specify log files for saving the commands and results of a debug session.

Internal Register window



You can view and modify the CPU internal resources (MMU registers, internal I/O registers etc.). Register name, register value and also bit value of each register are displayed in a tree format. Programs can be executed while opening the internal register window. It is helpful to debug while monitoring the status of interrupt and timer.

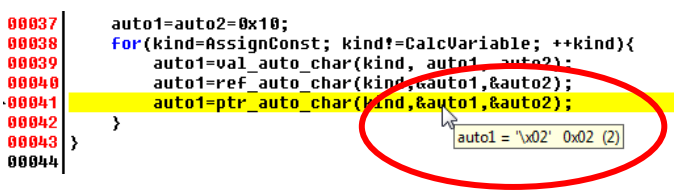
Trace



You can easily setup the trigger conditions and other conditions for trace in dialog box. The result of trace is displayed in special window. Supports ETM trace*6, SWV trace*7 and ETB trace

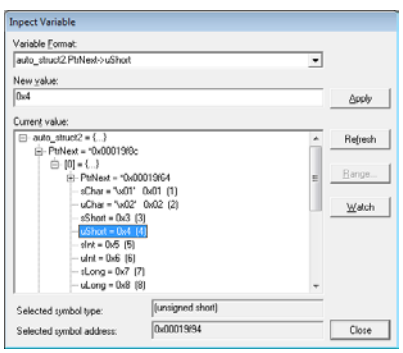
*6, *7 Supported products: *6: Cortex-M3, *7: ARM series

Inspect Tip Variable



WATCHPOINT displays the current value when you position the mouse pointer over variable name in source program. It is useful to refer to the value without opening inspect dialog box.

Inspect Variable



Double click on one variable in source window to view the contents of variable in a tree format. Embedded variables and member in complicated structures are also displayed. In addition, the variable value can be modified. The changes can be monitored in real time by registering the variable indicated in the inspect window into the watch window.

WATCHPOINT is used in combination with the JTAG tool "EJ-SCT"

Features of EJ-SCT

- ☑ Universal tool that supports many CPUs on one common hardware platform
- ☑ Stand-alone writer capability
- ☑ Hot Plug capability

EJ-SCT CLICK