

OSEK/VDX Support With HiTOP

Functions

- Display: OS
Tasks
Stacks
- Task Specific Breakpoints
- Event Trace: Running Task
Current Service

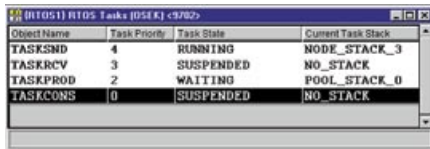
Functions Of HiTOP's OSEK/VDX Debug Support

Display: OS

Displays general information: The name of the currently running task and – whilst executing OSEK/VDX kernel code – the name of the service the kernel is requested for.

Display: Tasks

Displays the name of all tasks of the OSEK/VDX application. For each task is indicated the priority and the current state of the task (i.e. running, waiting, suspended, ready) and the name of the stack currently used by the task.



Display: Stacks

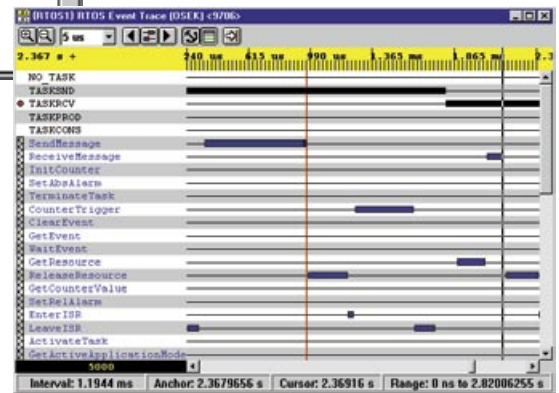
Display the stacks present. The Tasks window displays which stack is currently used by which task.



Via the local menu of the Stacks window the content of the stacks are revealed. Furthermore, the stack memory area can easily be filled with a user defined pattern. This is a simple but effective way to get the amount of stack space used after (a part of) the application was run and helps in optimising the size of the stacks.

Task Specific Breakpoints

Breakpoints (and Triggers) can be defined for specific tasks only. If a task specific breakpoint is set in shared code (i.e. code executed by several tasks), this breakpoint halts the emulation only if the code is executed on behalf of the specified task. Similar, the trigger action of a task specific trigger is only executed if the trigger event occurs whilst the specified task is running.



Event Trace

The Event Trace shows the sequence of the running tasks and the services requested from the operating system whilst a task was running. The additional recording of time stamps with each system event allows for sophisticated time measurement (task activation intervals, duration of service requests, etc).

Availability

Function	Motorola OSEK 68HC12	Motorola OSEK 68HC08	3soft Std_core 68HC12
Display			
OS	👍	👍	👍
Tasks	👍	👍	👍
Stacks	👍	👍	–
Task specific breakpoints*	👍	👍	👍
Event Trace**			
Running Task	👍	👍	👍
Current Service	👍	👍	–

OSEK/VDX Membership

Hitex is member in OSEK's Technical Committee. Hitex is committed to a standard for interoperability of OSEK/VDX implementations and debuggers from different manufacturers.

* For task specific breakpoints, an in-circuit emulator featuring sequence levels or at least condition programs is required

** For the event trace feature, an in-circuit emulator with trace/trigger system is required.



Main Office Germany

Greschbachstraße 12 Tel. +49-721-9628-0
 D-76229 Karlsruhe Fax +49-721-9628-149
 E-mail sales@hitex.de

Visit us on the internet! www.hitex.com or www.hitex.de

Hitex USA

2062 Business Center Drive, Suite 230 Irvine, CA 92612
 Tel. 800-45-HITEX
 Tel. +1-949-863-0320
 Fax +1-949-863-0331
 E-mail info@hitex.com

Hitex UK

Warwick University Science Park GB-Coventry CV4 7EZ
 Tel. +44-24-7669-2066
 Fax +44-24-7669-2131
 E-mail info@hitex.co.uk

Hitex Asia

25 International Business Park, #04-62A German Centre Singapore 609916
 Tel. +65-6566-7919
 Fax +65-6563-7539
 E-mail sales@hitexasia.com.sg

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