



## RTOS Debugger for DSP/BIOS

### TMS320C55xx OMAP

- Real Time, Non-Intrusive Display of DSP/BIOS System Resources
- Task Related Breakpoints
- Dynamic Task Performance Measurements
- DSP/BIOS Related Pull-Down Menu

The TRACE32 System includes a configurable multitask debugger to provide symbolic debugging in real time operating systems. Our software package contains a ready-to-run configuration for the DSP/BIOS Operating System.

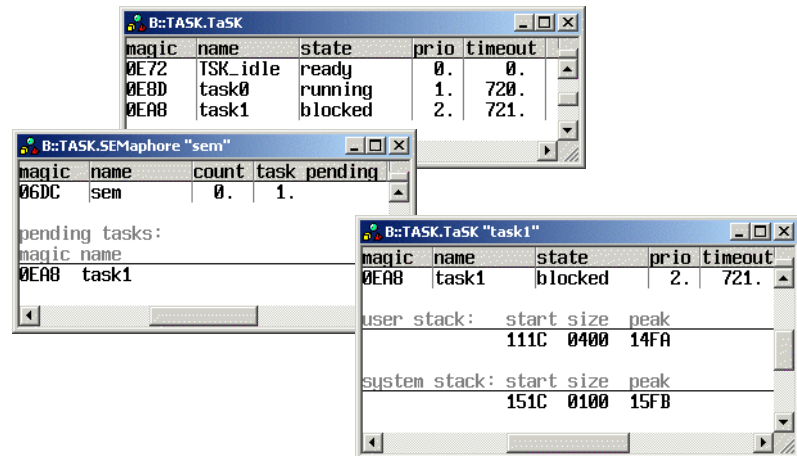
The DSP/BIOS awareness provides easy access to task lists and kernel information, generates performance analysis data and enables to do a most effective debugging with the TRACE32 systems on targets running DSP/BIOS.

## Multitask Debugging on TRACE32 with DSP/BIOS

### Real Time, Non-Intrusive Display of DSP/BIOS System Resources

The TRACE32 multitask debugger for DSP/BIOS provides display functions to show the system resources of DSP/BIOS. All objects, such as tasks, mailboxes, semaphores etc. can be displayed and inspected. In addition, by using the processors capability of read-

ing the target memory, while the application is running, the display of all these regions can be viewed non-intrusively in real time. The tables are updated permanently ("On The Fly"), without affecting the application at all.

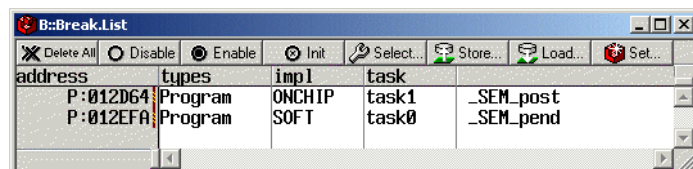


Task list window, detailed task window and detailed semaphore window

### Task Related Breakpoints

Any breakpoint set in the TRACE32 debugger can be set dependent to a specific task. This means, that the

breakpoint will then only halt, if hit by the specified task. This allows task related debugging even in shared code.

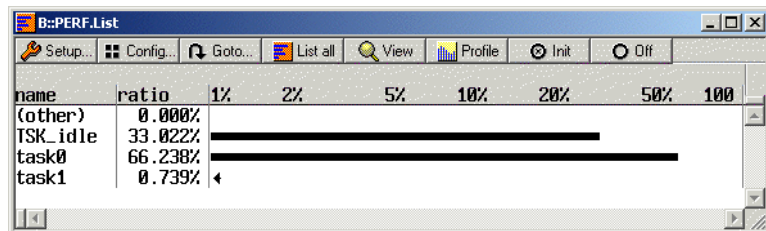


Breakpoint list with task dependent breakpoints

## Dynamic Task Performance Measurement

While DSP/BIOS is running, TRACE32 is capable of recurrently evaluating the current running task and collecting the results. The percentage, each task consumes of the system, is then dis-

played graphically and updated permanently. The longer time you let the measurement run, the more exact are the results. This feature is available even without any hardware trace.

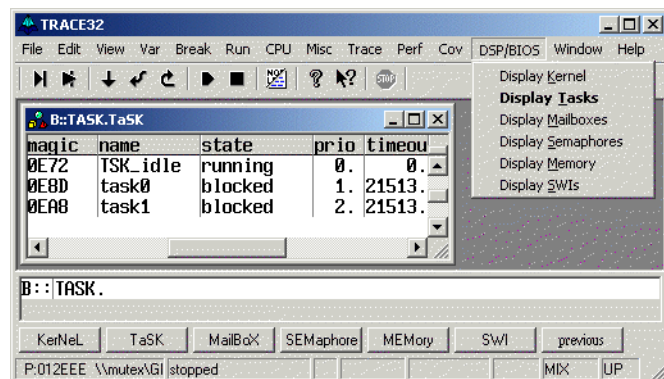


Performance measurement list

## DSP/BIOS related pull-down menu

Because the menu bar of the TRACE32 user interface can be fully customized, you can create a new pull down menu, including operating sys-

tem specific commands. We deliver DSP/BIOS support with an example for such specific menus, which provides fast access to the DSP/BIOS features.



TRACE32 with DSP/BIOS menu

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