



RTOS Debugger for OSEck

- Real Time, Non-Intrusive Display of OSEck System Resources
- Process Related Breakpoints
- Dynamic Process Performance Measurement
- PRACTICE Functions for OS Data
- OSEck Related Pull-Down Menu

TMS320C55xx OMAP

The TRACE32 System includes a configurable RTOS debugger to provide symbolic debugging in real time operating systems. Our software package contains a ready-to-run configuration for the OSEck Real Time Operating System from Enea Embedded Technology.

The OSEck awareness provides easy access to process lists and other kernel information, generates performance analysis data and enables you to do a most effective debugging with the TRACE32 systems on targets running OSEck.

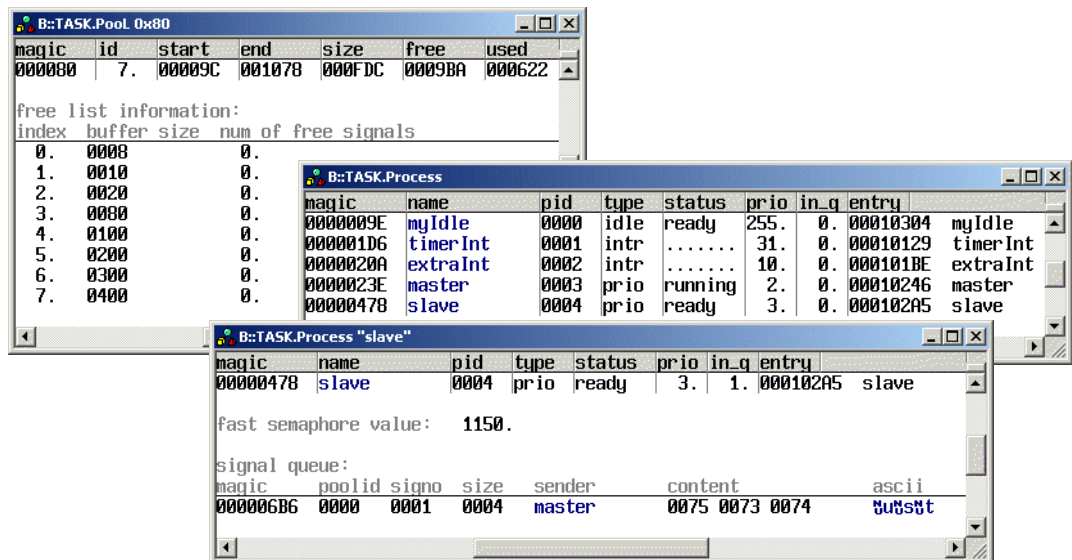
For the OMAP processor, Lauterbach offers a combined ARM & DSP Debugger, which is capable of debugging both cores simultaneously and synchronously. Together with the already available OSE ARM awareness, the developer can work with OSE support on both cores.

Multitask Debugging on TRACE32 with OSEck

Real Time, Non-Intrusive Display of OSEck System Resources

The TRACE32 RTOS debugger for OSEck provides display functions to show the system resources of OSEck. All objects, such as processes and pools, can be displayed and inspected. In addition, by using the processors capability of reading 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.

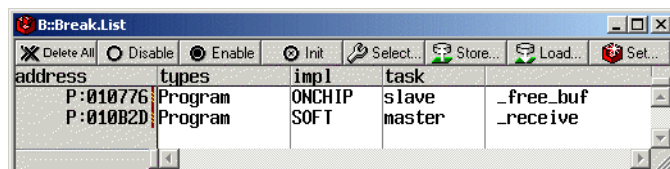


Detailed pool window, process list window and detailed process window

Process Related Breakpoints

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

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

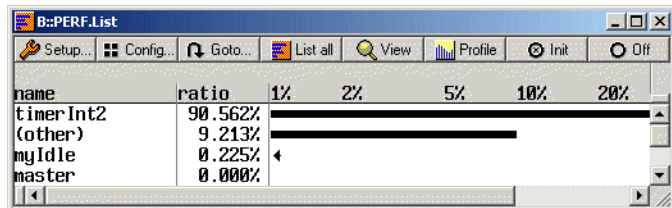


Breakpoint list with process dependent breakpoints

Dynamic Task Performance Measurement

While OSEck 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

PRACTICE Functions for OS Data.

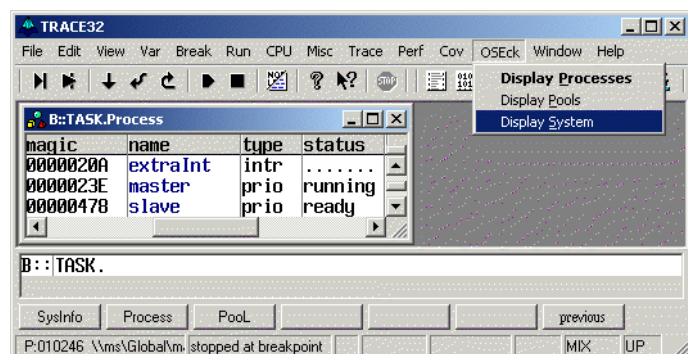
The support includes extended PRACTICE functions for OSEck specific data, to be used in setup and test scripts. E.g. the function "task.config(magic)"

returns the address of the so called magic value, which corresponds to the id of the current executing task.

OSEck 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 system specific commands. We deliver

OSEck support with an example for such specific menus, which provides fast access to the OSEck awareness features.



TRACE32 with OSEck menu

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