STRATON Real Time Kernel, optimized for multiprocessor PCs and Windows Vista.

Dual-core and Quad-core processors are getting established in modern industrial PCs (IPCs). At the same time, more and more systems are running Windows Vista. COPA-DATA has already prepared the real-time Soft-PLC STRATON for that.

In order to ensure a perfect operation on multi processor systems, it was necessary to make certain adaptations, especially for the initialization phase and the blue screen handling. Product manager Jürgen Resch explains: „We took some special precautions for the inter-processor interrupts, so that the system cannot reach any undefined states."

Multi-processor IPCs are very suitable when using zenOn and STRATON. The user can run the Soft-PLC on one core, while the other core is used for Windows applications like the zenOn visualization. It is very simple to configure that: In the CDrtHAL configurator, the user can simply choose the CPU on which the Soft-PLC is supposed to run.
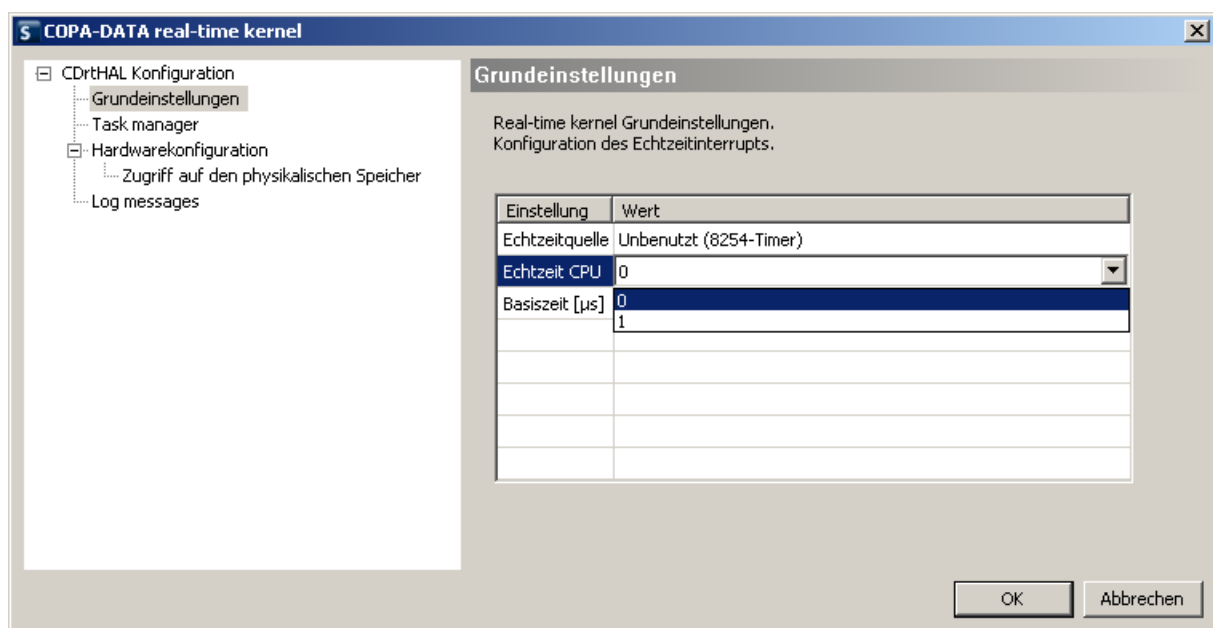
COPA-DATA also made sure that the runtime extensions of STRATON run smoothly in Windows Vista. For this, the extensions were adapted to the requirements of Vista's UAC (User Account Control) and the High Precision Event Timer (HPET). This ensures perfect communication between STRATON and Windows Vista.

Jürgen Resch: „STRATON runs reliably and safely on IPCs with Dual-core or Quad-core processors, even in Windows Vista."