

ENABLE SAFETY COMPLIANT DEVELOPMENT PERFORMING MULTI-CORE REAL-TIME ANALYSIS

Multi-core Microcontrollers are popular for developing Safety-critical embedded systems thanks to their high performance and efficiency. Universal Debug Engine (UDE), the trace-enabled debugger with a powerful user interface is the essential tool to help developers identify and solve issues quickly and efficiently.



MULTI-CORE DEBUGGING

Debugging a multi-core application is challenging, as developers need to track the behavior of each core independently.

A Synchronization Analysis, executed on trace data captured from multiple cores simultaneously, enables developers to identify issues, trace their roots and solve them in a faster and a more efficient manner.

REAL-TIME ANALYSIS

Hard real-time and multi-core applications, often based on a Real-Time Operating System, need to be analyzed to perform a comprehensive testing and validation of the software, and to ensure that it meets the required Safety standards.

High-resolution timing data provided through trace capability, can be used to identify potential issues and optimize the system's behavior.

