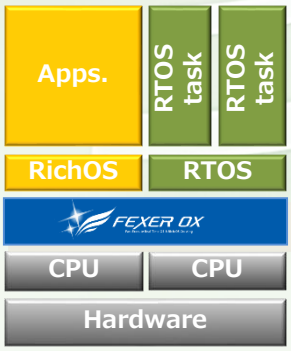
FEXER OX

Fast Execute Real Time OS & Rich OS Crossing

" *FEXEROX* " is a Secure & Lightweight Multi-OS Platform, can provide the following user benefits;

Multiple-OS	・RichOS and RTOS can operate on a single CPU (Additional OS can be loaded according to the memory bandwidth)
Security	・Trusted application execution on secure domain (MIPS VZ)
Cost Reduction	・Low Electrical BoM with multiple-OS operation on a single CPU ・Low cost SW development using free SW IPs (Linux and OS Applications)
Reusability	・Legacy RTOS (iTRON etc.) SW properties can be fully utilized
Real Time Execution	・Real Time Signal Processing using an RTOS in parallel

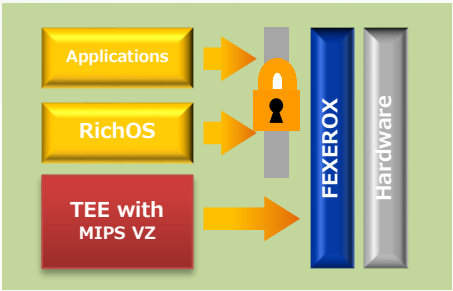
◆ "*FEXEROX*" Key Advantages

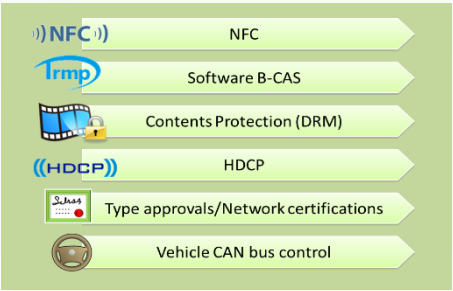


- "Hypervisors as bare-metal tools (Type I)" Architecture
  - ・Specifically developed for Embedded System (Not reuse from full VZ technology for PC and Server systems)
  - ・Advanced abstraction design minimizes the overheads such as reading different memory domains caused by I/O virtualization, Inter-OS communications, System call and Context switching
- Lightweight / Fast Benchmark
  - ・32 Kbytes of Footprint design
  - ・Achieved up to 99% performance with LMBench
- Minimize side effect against OS
  - ・Minimal code change and Kernel dependency
- Can be used as Secure platform (SecureOS)
  - ・Runs on the MIPS Warrior M-class M5150, an MCU-class CPU with hardware virtualization

    MIPS by Imagination
  - ・ Provides TEE (Trusted Execution Environment), a「Global Platform」compliant secure interface

    GLOBALPLATFORM
- Flexible Platform
  - ・MIPS/ARM/Intel/PowerPC/SH/FPGA CPUs
  - ・Multi-Core/Single-Core (SMP/AMP)
  - ・RichOS～RTOS (combinations of more than two OSs)





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