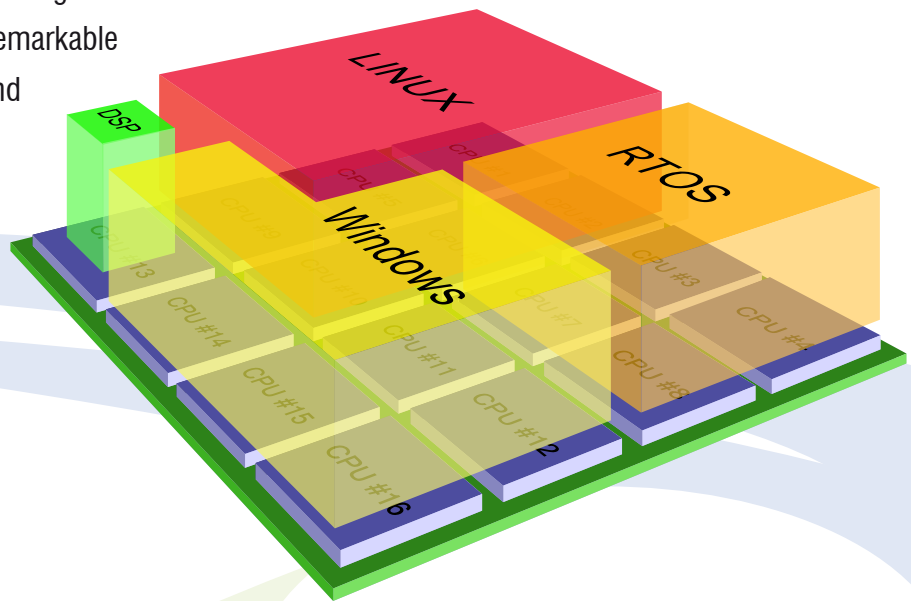


Harness the Power of Today's Multicore Processors

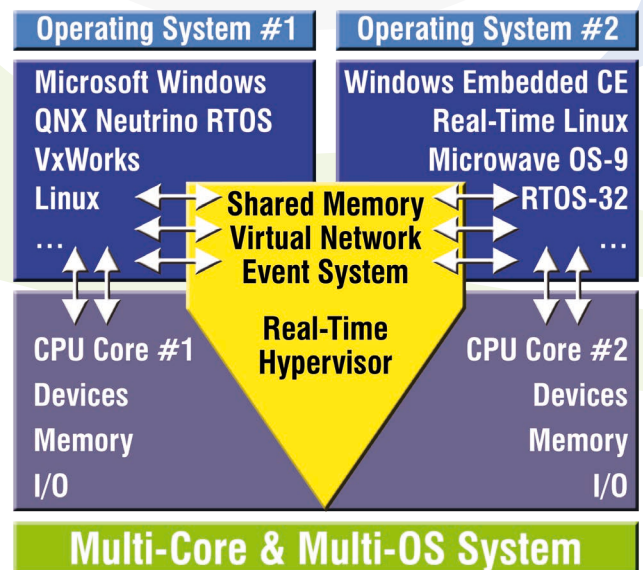
Real-Time Hypervisor

The innovative Real-Time Systems Hypervisor permits multiple operating systems – both real-time (RTOS) and general purpose operating systems (GPOS) like Microsoft™ Windows® or Linux – to run concurrently on multicore x86 processors. By utilizing this powerful and cost-effective software solution, designers attain increased flexibility in system design and remarkable enhancements to functionality and performance – at the same time reducing overall system cost.



Hard Real-Time Performance Multiple Operating Systems in Perfect Harmony

- Combine real-time operating systems like VxWorks®, QNX Neutrino or Real-Time Linux, with e.g. Microsoft™ Windows®
- Operating systems reside simultaneously on an x86 computer while maintaining the hard real-time characteristics of an RTOS
- User-definable boot sequence
- Reboot any operating system anytime during undisturbed execution of other operating systems
- Communication via high performance virtual TCP/IP network and flexible shared memory



ADVANTAGES

- ✓ Reduced system costs and physical size through Hardware consolidation
- ✓ Hard real-time performance
- ✓ Maximum flexibility in system functionality
- ✓ Increased reliability (MTBF) as no additional hardware is required for additional operating system
- ✓ Works seamlessly with COTS and proprietary operating systems
- ✓ Proven in thousands of systems worldwide

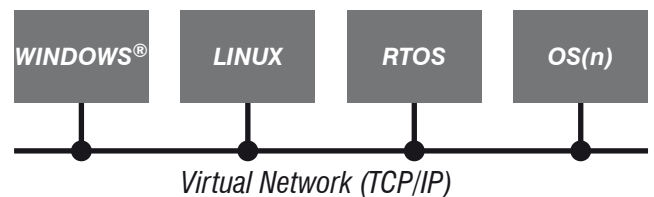
ABOUT OUR HYPERVISOR

- ✓ All operating systems operate completely independent
- ✓ User defined startup sequence of operating systems
- ✓ Any operating system can reboot without affecting other operating systems
- ✓ All operating systems safely separated and protected
- ✓ Standard development tools can be used (supplied by the operating system vendors)
- ✓ Standard drivers can be used ~ no special development required
- ✓ NUMA (Non-Uniform Memory Access) fully supported
- ✓ OS independent Drive Sharing

OPERATING SYSTEMS SUPPORTED

- ✓ Microsoft™ Windows® (all current versions)
- ✓ Windows® Embedded Compact (incl. CE 6)
- ✓ Wind River VxWorks
- ✓ QNX Neutrino RTOS
- ✓ Microware OS-9
- ✓ On Time RTOS-32
- ✓ Linux, Real-Time Linux
- ✓ T-Kernel
- ✓ Proprietary OS or stand alone "C-Code"
- ✓ ... others upon request

MEANS OF INTERNAL COMMUNICATION



- ✓ The RTS Hypervisor provides easy communication via high performance internal virtual network (TCP/IP)
- ✓ Shared memory with an easy to use API can be configured for direct data exchange
- ✓ Time Synchronization between Operating Systems
- ✓ High-Performance Event System
- ✓ APIs to monitor, start and stop Guest Operating Systems
- ✓ Rights Management for all APIs and Shared Memories



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