

VxWorks

The Leading RTOS for
the Intelligent Edge



VxWorks Security

Firewall SSH & IPSEC

Secure data travelling over network



Truecrypt compatible containers

Encrypt critical device data

VxWorks Safety

Shared memory restriction

Prevent non-critical app sharing same critical resources



Time-partitioned scheduler

Prevent critical app being delayed

IEC 61508

Standard certification electronic device

Safety Certification

DO-178C

Software certification airborne system

VxWorks User Interface

includes frame buffer & GPU acceleration driver for
enhance CPU load towards image processing

Qt Company

Use QT meta language
to animate object
movement

Tilcon User Interface

Suitable for 2D animation
and no GPU acceleration
hardware and used
directly with frame buffer



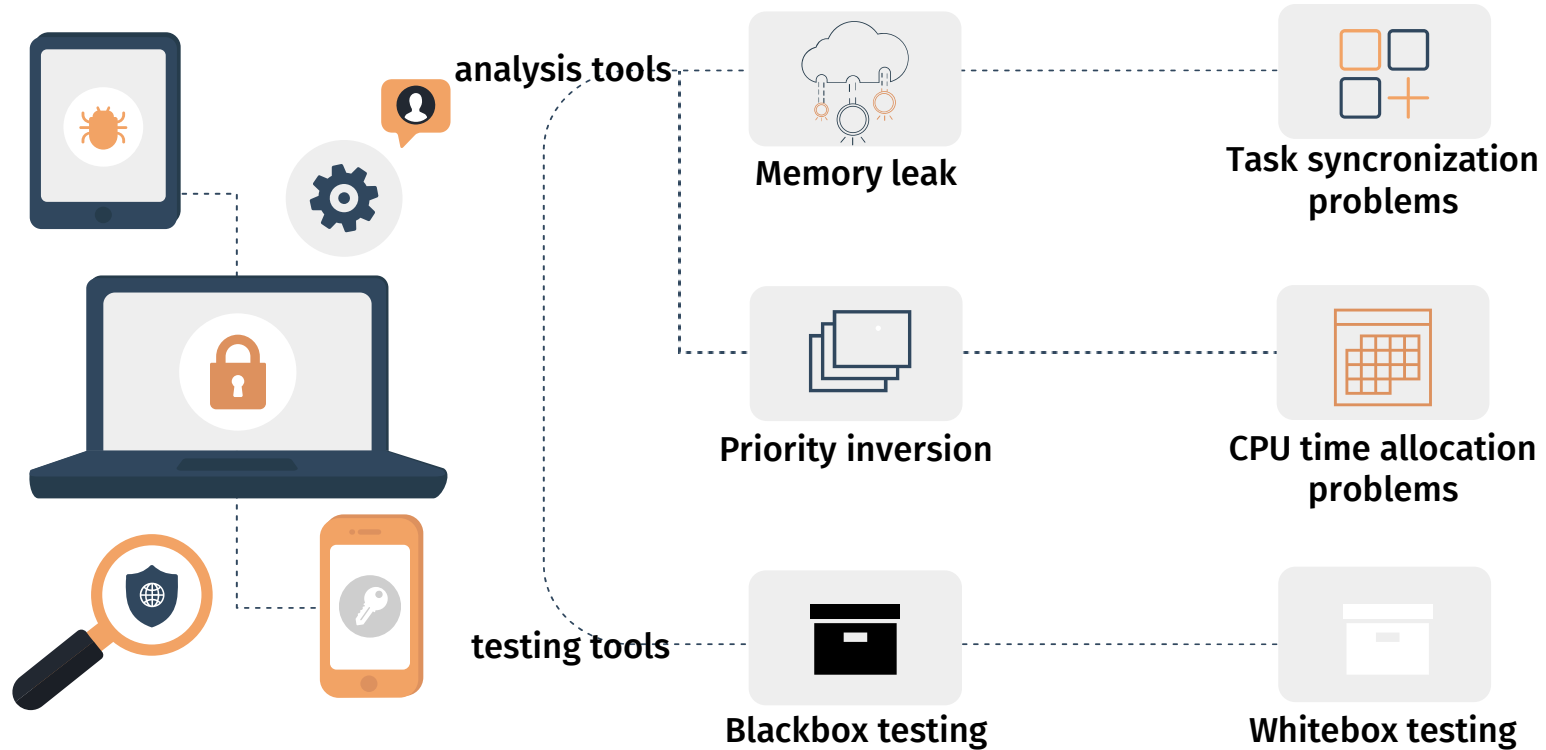
CoreAVI

Provide graphical
packages for safety-
based system

Touch Screen Driver

Allow modern field
device

VxWorks Workbench Analysis Tool



Conclusion

Core Attributes

Security

Protect data theft and reverse engineering



Safety

Ensure safety critical app



Scalability

Scale functionality and across applications

Connectivity

Applicable for Read-Write & Internet of Things (IoT) adaptation



Graphic

Provide some features for user interface

Virtualization

Able to take different subsystems & combine into one



Platform Features