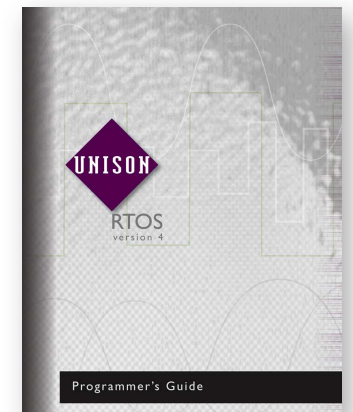# RoweBots
Research Inc.

Software Data Sheet

Unison RTOS version 4

for Renesas R32

Features

- Tiny Tiny Embedded Linux or POSIX compatible RTOS
- Open Standards
- Open Source
- R32 Family
- Complete integrated development using HEW
- Seamless integration of target components
- POSIX Nano Kernel
  - Fast
  - Tiny
  - Compliance tested
- Total Integrated I/O
  - Networking options
  - Serial I/O
  - File Systems
  - Bus Support
  - Touch Screen and Graphics
- Tiny footprint software components
- Off the shelf evaluation board support
- Single click install
- Complete documentation including:
  - Index and Release Notes
  - Tutorial Guide for Unison V4
  - Programmer's Guide for Unison V4
  - Reference Guide for Unison V4

- FREE source code

- FREE development

- Royalty FREE with low volume licences

- Interface compatible with DSPnano V2

Overview

The key benefits from this approach are significant for developers.

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1. Unison is a tiny tiny Linux or POSIX compatible RTOS with complete System on Chip (SoC) support for 32 bit processors.   It eliminates training and supports standards based development on tiny processors where other Linux variants or larger RTOS solutions don't run.

2. Unison provides integrated support for Explorer 16 and PICtail boards, and an IDE based on MPLAB with integrated compiler, assembler, linker, librarian, in circuit emulation and optional software debugging. Users can create and execute a new project in minutes without errors or configuration issues. It is fast and easy to learn and to use!

3. Integrated software components with complete I/O can save significant time in OEM application development. Today, all systems are networked in some way and the integration of Nanoexec along with various networking support, serial support and more will allow them to build whatever they need quickly.

4. With a single click install on Windows, Unison is always simple to deploy and get people started without questions or early difficulties.

5. With extensive documentation which walks the user through the system from conceptual understanding of the system through to actual hands on operation on standard hardware, users come up to speed quickly and develop confidence with the system before encountering more challenging problems.

6. Interface compatibility with other Unison V4 versions or DSPnano V2 versions which provides seamless upgrade and downgrade paths to more or less powerful processors without source code changes.

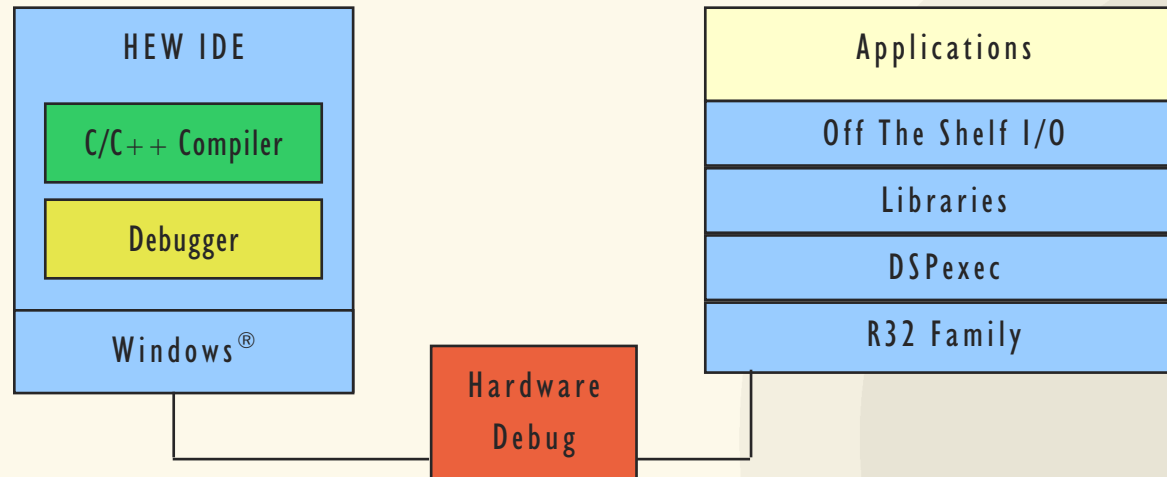| Supported Hosts | • Windows XP™
• Windows Vista™ |
Supported Processors	• R32 Family
Software Version	• Unison V4
Availability	• Beta • Q4, 2008

DSPnano Operating System Architecture

HEW IDE

C/C++ Compiler

Debugger

Windows®

Hardware Debug

Applications

Off The Shelf I/O

Libraries

DSPexec

R32 Family

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