SynthOS

SynthOS™ is a new software tool that generates a small, fast real-time operating system, customized for your embedded applications. Just add a few simple SynthOS statements to your existing C code for the tasks that do the real work. Then specify the basic parameters to describe the type of RTOS, and SynthOS rewrites the task code and generates the C source code for a complete RTOS. You no longer need to fool with semaphores and mutexes. SynthOS allows you to use all of your current tools — compilers, debuggers, interpreters, and emulators — for executing and debugging the resulting synthesized code. SynthOS produces small, fast code and performs checking to ensure that race conditions cannot occur and that tasks have the correct priorities and timing.

Advantages for Customers

- **Shortens development time**

  Lower development costs
  Faster time to market

- **Reduces ownership costs**

  No royalties
  10% of off-the-shelf RTOSes
  Can be used on multiple projects

- **Makes debugging easier**

  Source code in, source code out
  RTOS expertise is not necessary

- **Uses patented technology**

  Eliminates race conditions
  Optimizes the output code
  Results in a small memory footprint
  Very low latency times

- **Squeezes performance out of smaller, simpler processors**

  Lower hardware costs
  Lower power consumption

- **Portable**

  Runs on any workstation or PC
  Integrates with your current tools

Advantages for Processor Vendors

- **Requires minimal support**
- **Immediately works for all new processors**
- **Leverages existing compiler technology**
- **Speeds task switching without hardware assistance**

For more information, including white papers and application notes, contact us at:
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ZEIDMAN TECHNOLOGIES