



# news

## Unveiling Mentor-DSP

ni2 breaks technological boundaries with new Mentor-DSP software tool for Digital Signal & Image Processing applications.

The DSP market is where most disruptive technologies are created and evolved into broader commercial products. Digital Signal Processing offers technologies for innovative system development and application design.

*"Our customers demand blend of performance and learning resource, beyond what current DSP softwares alone can deliver."*

Responding to the demand from engineers wanting to become more familiar with DSP, ni2 is launching an easy-to-use, interactive tool that helps engineers progress their designs from inspiration to implementation.

Working with Mentor-DSP's interactive tools viz Speech Synthesis, Image Processing, Filters, Modulations, Discrete Transforms etc; dovetails nicely into existing DSP applications for engineers to provide accelerated and optimum solutions.

With the variety of applications utilizing digital signal processing, the number of first-time DSP designers needing guidance on getting started with DSP is expanding. ni2's Mentor-DSP reduces complexity, and leaves engineers with a clear roadmap of actions and activities to master DSP.

## Releasing Real Time Application Interface of 20-sim with ARM9

ni2 now brings you Real Time Application Interface of 20-sim using ARM9 based prototyping board (TS-7260). This board can be easily interfaced with 20-sim software for execution and testing of Real Time Application Interface (RTAI) of dynamic models. With powerful ARM9 processor you can run complex math crunching models which is not possible on other series of processors available.

The TS-7260 board offers a compact full featured Single Board Computer (SBC) based upon the Cirrus EP9302 ARM9 CPU, which provides a standard set of on-board peripherals. The EP9302 features an advanced ARM920T 200 MHz processor design with MMU. TS-7260 includes software power consumption control for on-board peripherals, making this board ideal for use in power sensitive designs, such as battery-powered systems. In addition, the TS-XDIO standard feature can be replaced by either 2 extra serial ports or an SD Card socket, which enables fast boot to Debian Linux from a SD Card.

TS-7260 will accompany with 'ForSee' toolchain, which can Connect, Configure, Command and Control the board through Ethernet port. 'ForSee' toolchain is developed by 20-sim developers used for porting dynamic models from 20-sim on the RTLinux OS of the TS-7260 board.

20-sim is a software to model and simulate the behavior of dynamic systems, such as electric, mechanical, thermal or hydraulic systems, or any combination of these.

The above said RTAI between ARM and 20-sim will allow designers and researchers to implement their Dynamic models in real time, real life.

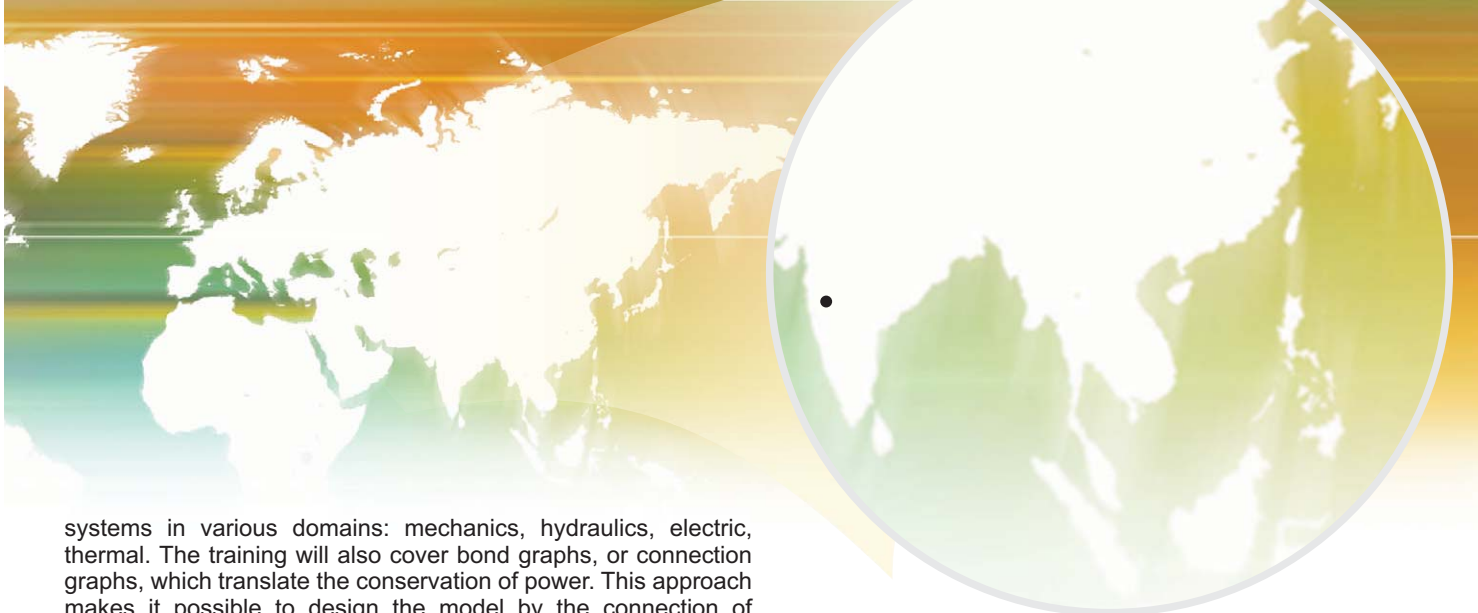
## 20-sim® Asia Pacific Technical Training in Bangkok

ni2 provides training in modern design practices to both professionals and budding engineers in reputed companies and academic institutions across India to spread technological knowledge as well as enabling companies to upgrade their work force skills. Conducting research within a cooperative and global network underpins our long-term technology visions and we cooperate with universities and other industry players to widen the scope of technology.

Today's highly competitive marketplace demands that you use resources effectively, increase productivity, accelerate product development, and get products to market quickly. At the same time, system requirements become more demanding and product life cycles become shorter every year. You need thorough training to meet your goals...

20-sim is the revolutionary package for dynamic simulation and mathematical modeling and ni2 is the authorized distributor for Controllab Products B.V. Netherlands for Asia Pacific region. Both the organizations had jointly arranged a training program for 6 days on Dynamic Simulation Modeling focused on mechatronics and precision engineering for the professionals, engineers, researchers and academicians in the Asia Pacific rim.

20-sim technical training provides you with the knowledge you need to maintain your competitive edge. It combines both technology and methodology content to demonstrate not just the features of 20-sim, but also how to utilize these features in the field of dynamic simulation. This blend of technology and methodology focus creates an indispensable "value-added" course, far beyond any other course providing mere knowledge of the tools. This training and software explains the modeling of dynamic



systems in various domains: mechanics, hydraulics, electric, thermal. The training will also cover bond graphs, or connection graphs, which translate the conservation of power. This approach makes it possible to design the model by the connection of elementary models exchanging energy. The effectiveness of bond graph software and the possibility to create libraries of models contribute to its fast spread in industry.

20-sim has revolutionized the way engineers and scientists do modeling and simulation. You can model and simulate your designs ready for engineering, animation, analysis, prototyping, and manufacturing.

The training program is intended for scientists and engineers who want to use 20-sim for modeling and simulation to analyze the dynamic behavior of systems. The focus is on using 20-Sim as tool for model based design in large design projects and the encapsulation of knowledge in re-usable model libraries. The course has an engineering level with the focus on practical applications.

The audience should have an engineering education with a good knowledge on measurement, control, modeling and dynamics. We invite professors & lecturers from Electronics, Electrical, Instrumentation and Mechanical Engineering; Researchers & scientists working in dynamic system modeling & simulation domain; Control system network & industrial plant controller designers; Research scholars working in bond graph techniques & real-time dynamic model implementation.

The training program will be conducted in a state of the art training facilities of Kinetics Corporation Ltd., Bangkok by experienced engineers with years of hands-on experience. The group leader of the trainers is Ir. C. Kleijn. Mr. Kleijn, Managing Director, Controllab Products B.V., Netherlands, is the chief architect of 20-Sim package with more than ten years of experience as a consultant in power transmission, control engineering and mechatronics.

The program would be conducted in October, 2007 and March, 2008 for 6 days in each schedule at our Asia Pacific Training Centre in BANGKOK. The attendees would be provided with to & fro air tickets, Visa, 3 star accommodation, local conveyance. For more information please contact [manoj@ni2designs.com](mailto:manoj@ni2designs.com)

## Success Story - $\mu$ Wind

In a world where technology increasingly touches every aspect of our daily lives, in a very short span of time we have become a leading solutions provider in the area of VLSI, and aspire to become the most admired company in the education sector.

We offer a comprehensive portfolio of design solutions, training and education services to acquire and optimize your technical skills.

MICROWIND has been one such solution, which changed the way engineers think and do designing in the ever expanding domain of VLSI and ASIC Designs.

*We proudly say, ni2 has been a pioneer in providing solutions and services to more than 500 premiere engineering colleges all across India and Asia Pacific.*

*MICROWIND is a complete solution for deep sub micron Transistor level CMOS designs and is being used by over 100 colleges under the premium universities such as Anna University Chennai, VTU Karnataka, Osmania University Hyderabad, Mumbai University Mumbai, Cochin University Kerela, RGPV Madhya Pradesh, Kolkata University West Bengal, Punjab University Chandigarh, BPUT Orissa, Nanyang Tech. University Singapore, UTAR Malaysia, and many more...*

In India the MICROWIND licenses being used are more than all other CMOS tools combined together. The leading educationists have also acclaimed MICROWIND all across India.

Technically speaking, the MICROWIND 3 package has been specially devised for the educational institutes. It has different modules for transistor level layouts, mixed signal simulation, memory simulator, and virtual fabrication process in 3-D view, verilog and SPICE support, MOS characteristic analysis; combined in one package.

*"As a small token of our appreciation of valued customers of  $\mu$ Wind, upon whose satisfaction we have been allowed to grow and prosper in this highly competitive marketplace, I would like to say a heart-felt thank you to all." says Manoj Menghrajani, Manager EDA. "It is my sincere hope that you are completely satisfied with the service which was provided to you and will avail yourself of our expertise again in the future."*

We are always interested in suggestions that would allow us to improve upon our already high standards and encourage you to submit your thoughts. Again, on behalf of our entire organization, a