

Exhibition

Exhibition from industry and publishers is arranged at SUNTEC Singapore Room 304. Exhibition opening hours are as follows.

Day	Exhibition Hours
Tuesday, Sep 24, 2002	0800 hrs – 1900 hrs
Wednesday, Sep 25, 2002	0800 hrs – 1900 hrs
Thursday, Sep 26, 2002	0800 hrs – 1700 hrs
Friday, Sep 27, 2002	0800 hrs – 1300 hrs

Exhibitors are required to register at the conference secretariat upon arrival.

For further information you may contact the Exhibits Co-Chair:

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Exhibition Profile

1. SIMTech

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Singapore Institute of Manufacturing Technology (SIMTech), formerly Gintic Institute of Manufacturing Technology, is committed to enhance the competitiveness of Singapore's industries through the generation and application of advanced manufacturing technology.

As a research institute, SIMTech's role is:

- To carry out applied R&D in processes and technologies for Singapore's manufacturing industry

- To help Singapore-based companies enhance their competitiveness
- To transfer applied research technologies to Singapore-based industries through manpower development

It has completed more than 600 projects for close to 400 companies, big and small. The diverse industries SIMTech works closely with encompass the electronics, semiconductor, precision engineering, aerospace, marine, logistics, and other sectors.

SIMTech offers industry its R&D expertise to help it upgrade its technology as well as to provide it with solutions. Its core competencies include:

- ◆ Precision Mechatronics, Sensors, Real-time Control and Signal Processing for Automation Solutions
- ◆ Supply Chain and Logistics Planning/Optimisation for Manufacturing Enterprises
- ◆ Collaborative Product Engineering and Product Life Cycle Management/Integration
- ◆ Manufacturing Processes in Joining, Surface Coating, Machining, Advanced Polymer Processing and Precision Metal Forming.

2. dSPACE GmbH

COMPANY: dSPACE GmbH
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Sales growing at a constantly high rate, over 300 personnel, more than 7000 installations throughout the world: This is the result of more than 10 years as the world's leading supplier of tools for developing and testing mechatronic control systems.

dSPACE systems enable manufacturers of controllers and electronic control units (ECUs) to reduce their development times and costs dramatically and noticeably increase their productivity. This is made possible by an optimum mixture of standard solutions for rapid control prototyping, automatic production code generation and hardware-in-the-loop simulation. If necessary, comprehensive services are available, from on-site training to customer-specific system engineering.

Here are a few of the products that have put dSPACE in the lead:

- ❖ Rapid Control Prototyping with dSPACE Prototyper:
 - A flexible development system that lets you validate your controller designs on the real controlled system, for example to develop electromechanical valve drives.
- ❖ Automatic Production Code Generation with TargetLink:
 - Automatic generation of efficient C code for production ECUs, for example, to control the fuel mixture of a gasoline engine.
- ❖ Hardware-in-the-Loop Simulation with dSPACE Simulator:
 - The system for testing ECUs in a simulated environment, for example engine ECUs.
- ❖ Calibration with the dSPACE Calibration System:
 - In the future, the dSPACE tool chain will include a powerful calibration and measurement system, to ensure that the adaptation of ECUs will be possible throughout all development stages.

The dSPACE products are sold and supported by the company headquarters in Paderborn, the subsidiaries in the USA, France and the UK, and by a large number of representatives worldwide. To provide an even better service for the automotive sector, there are Project Centers in Munich and Stuttgart.

Our customers include many major industrial companies in the automotive, aviation and drive fields - for example, Audi, Behr-Hella, BMW, Caterpillar, DaimlerChrysler, Delphi, DENSO, various Formula One teams, Ford, Fujitsu, General Electric, General Motors, Honda, Kodak, Magneti Marelli, Mitsubishi, Motorola, NASA, Nikon, Nissan, PSA Peugeot Citroen, Renault, Siemens, Toyota, Visteon, Volvo and VW.

3. Millice Private Limited

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The Company was established in 1979 as a service organization. The company goals were to train South East Asian personnel to install and maintain semiconductor equipment that was shipped into the South East Asia region. This service coupled with spare parts stocking, evolved into a full service distribution, manufacturing and value added company,

servicing not only the Asian semiconductor, but the disc drive and microelectronics industries as well.

Sales territories include coverage in Singapore, Malaysia, Philippines, Thailand, Indonesia and Indochina, with direct local sales and service centers in Singapore, Philippines and Thailand. Our staff located in three countries, includes eleven sales persons, three internal sales support persons, four factory trained service engineers and five administrative personnel. We maintain a totally integrated IT system for finance, purchasing and stock control for ex-stock shipments.

Our facilities include 720 sqm(8000 sqft) in Singapore, housing a "class 100 clean room" for the repair and servicing of mass flow controllers(MFC) and high purity pumps, as well as a "laser calibration lab" for repair and calibration of HeNe lasers.

4. TechSource Systems Pte Ltd

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TechSource Systems was incorporated in 1996 with the key objective to serve the Mathematics and Research and Development sectors that will enable engineering professionals and developers to maximize the benefits of Mathematical computing to significantly reduce development time and costs. In turn, increasing their speed to market their products.

Presently, TechSource Systems has 4 offices in the Asean region, namely in Singapore (Headquarter), Malaysia, Thailand and Philippines.

Being the authorized distributor of MATLAB in the Asean region, our customer base includes many research and development institutes in Singapore as well as multinational companies.

MATLAB cater largely to the automotive, aerospace, tele and data communications, process industries, electronics, biotechnology and pharmaceuticals, finance and economics, life sciences and instrumentation arenas. MATLAB can be deployed in various applications as follows:

- Technical computing
- Control Design
- DSP and Communications Design
- Test and Measurement
- Image Processing
- Financial Modeling and Analysis

We offer a set of integrated products for data analysis, visualization, application development, simulation, design, and includes the following product family :-

◆ **MATLAB**

- MATLAB is an intuitive language and a technical computing environment. It provides core mathematics and advanced graphical tools for data analysis, visualization, and algorithm and application development. With more than 600 mathematical, statistical, and engineering functions, engineers and scientists rely on the MATLAB environment for their technical computing needs.

◆ **Application Development Tools**

- The application development tools include the MATLAB Compiler, C/C++ Math and Graphics Libraries, the MATLAB Web Server, and the MATLAB Runtime Server. These tools enable you to create and distribute standalone versions of your MATLAB applications and share your MATLAB work with colleagues who use other environments.

◆ **Toolboxes**

- Toolboxes are collections of highly-optimized, application-specific functions that extend MATLAB and Simulink. Toolboxes support applications involving signal and image processing, control system design, optimization, financial engineering, symbolic math, neural networks, and others.

◆ **Data Acquisition and Access Tools**

- These products provide straightforward access to data from external devices and other software packages. From controlling and communicating with data acquisition devices and instruments to database connectivity and interfacing with programs such as Microsoft Excel, these products allow you to easily get your data into MATLAB. Toolbox functions are built in the MATLAB language and can be easily viewed and modified.

◆ **SIMULINK**

- Simulink is a simulation and prototyping environment for modeling, simulating, and analyzing real-world, dynamic systems. Simulink provides a block diagram interface that is built on the core MATLAB numeric, graphics, and programming functionality

◆ **Stateflow**

- Stateflow is a graphical simulation environment for modeling and designing event-driven systems. Stateflow provides Simulink users with an elegant solution for designing the control or protocol logic found in embedded systems.

◆ **Blocksets**

- Blocksets are collections of application-specific blocks that support multiple design areas, including electrical power-system modeling, digital signal processing, fixed-point algorithm development, and more. These blocks can be incorporated directly into your Simulink models

◆ **Code Generation Tools**

- Real-Time Workshop and Stateflow Coder generate customizable C code directly from your Simulink and Stateflow diagrams for rapid prototyping, hardware-in-the-loop simulations, and desktop rapid simulation. Extension products generate efficient C code for embedded systems applications and Ada 95 and Ada 83 code.

For more information, please visit <http://www.techsource.com.sg> or call (65) 6842 4222 for more details.