

New Directions

in Embedded Systems

Guide to

Microsoft®
Windows CE

**Version 2.0 &
Development Tools**

Launch

Microsoft



MOTOROLA

What you never thought possible.

HITACHI



Corporate Booth #1228

Stations

AMD

The symbol μ forCE demonstration system provides a reference/demonstration platform for mobile and embedded product development using the AMD ElanSC400 microcontroller and the Microsoft Windows CE operating system. The combination of the ElanSC400 controller and the Windows CE operating system offers an attractive alternative to system designers who are looking to enable smaller, more powerful dedicated systems.

Hitachi Semiconductor (America), Inc.

Hitachi's SuperH RISC engine architecture is the optimal choice for Windows CE applications including H/PC, embedded, automotive, Internet access and more, with a device roadmap and reference platforms matching the requirements for the broadening applications of the OS.

IBM Microelectronics

IBM Microelectronics develops and manufactures a family of highly scalable 32-bit RISC PowerPC Embedded Processors, including the 401GF, 403GA/GB/GC, 403GCX, 602, 603/603e, 740 and 750. The highly integrated, low power PowerPC 400 Family members are ideal for applications in emerging 32-bit cost-sensitive consumer electronics and communications markets. IBM also combines PowerPC cores and advanced ASIC technology and methodology to develop system-on-a-chip solutions.

LSI Logic

In 1998, LSI Logic Corporation will offer a full range of TinyRISC(16/32- and MiniRISC(32-bit MIPS RISC-based microprocessor core products. Already widely used in a host of Set-Top applications and DVD players, these processors will provide Windows CE-compliance for applications like: Automotive PCs, Personal Communicators, Video/Wireless/Smart Phones, Personal Digital Assistants.

Microsoft Windows CE Embedded Toolkit for Visual C++ 5.0

The Windows CE Embedded Toolkit for Visual C++ 5.0 combines an integrated development environment with a rich set of Win32-based embedded development technology. Build applications for ROM on top of a componentized version of Windows CE and bring them up on one of the supported reference platforms. Use remote tools and debuggers to monitor and debug your applications, all from the integrated Developer Studio environment.

Microsoft Windows CE Version 2.0 Hardware Development Platforms

At this station, come and see the hardware development platforms for Windows CE. Whether targeting embedded development against the many supported processors via the Hitachi D9000 or leveraging your existing desktop PC as a hardware development platform for x86 based development, both are demonstrated at this booth.

Microsoft Windows CE Toolkit for Visual Basic 5.0

The Windows CE Toolkit for Visual Basic 5.0 delivers the tools Visual Basic programmers need to easily build solutions for Windows CE-based devices. The Toolkit adds-in to the Visual Basic 5.0 development environment, making it easy for developers to apply their knowledge of Visual Basic to the Windows CE platform.

Microsoft Windows CE Toolkit for Visual J++ 1.1

The Windows CE Toolkit for Visual J++ 1.1 enables you to build embeddable Java applications for Windows CE devices. The Toolkit adds-in to the Visual J++ 1.1 development environment, making it easy for developers to apply their knowledge of Visual J++ to the Windows CE platform.

Motorola

Combining Microsoft's Windows CE Operating System and application software experience with Motorola's embedded silicon and communications technology, provides OEM's and ISV's with powerful solutions in portable computing and personal communications. The MPC821 is a versatile, single-chip integrated microprocessor and peripheral combination that brings together a high performance embedded PowerPC core with a communications processor module, allowing it to excel in low-power control applications, as well as personal and industrial-strength communication solutions.

NEC Electronics, Inc.

The demo station uses Microsoft's Windows CE hardware development platform which is based on NEC's 64-bit VR4102 microprocessor. This hardware development platform can be used to develop and debug applications and systems using version 2.0 of the Windows CE operating system. The VR4102 daughter card, designed specifically for the Microsoft Windows CE hardware development platform, is available from NEC Electronics Inc.

Philips Semiconductors

Philips Semiconductors PR31700 and UCB1200 with V.34bis softmodem are ideal for Windows CE devices. A MIPS R3900 core with MAC provide 72 MIPS performance while consuming minimal power. Mic, speaker, touch screen, infrared, LCD, PCMCIA, and many more interfaces and controllers are included in the TwoChipPIC Plus. Development boards available today.

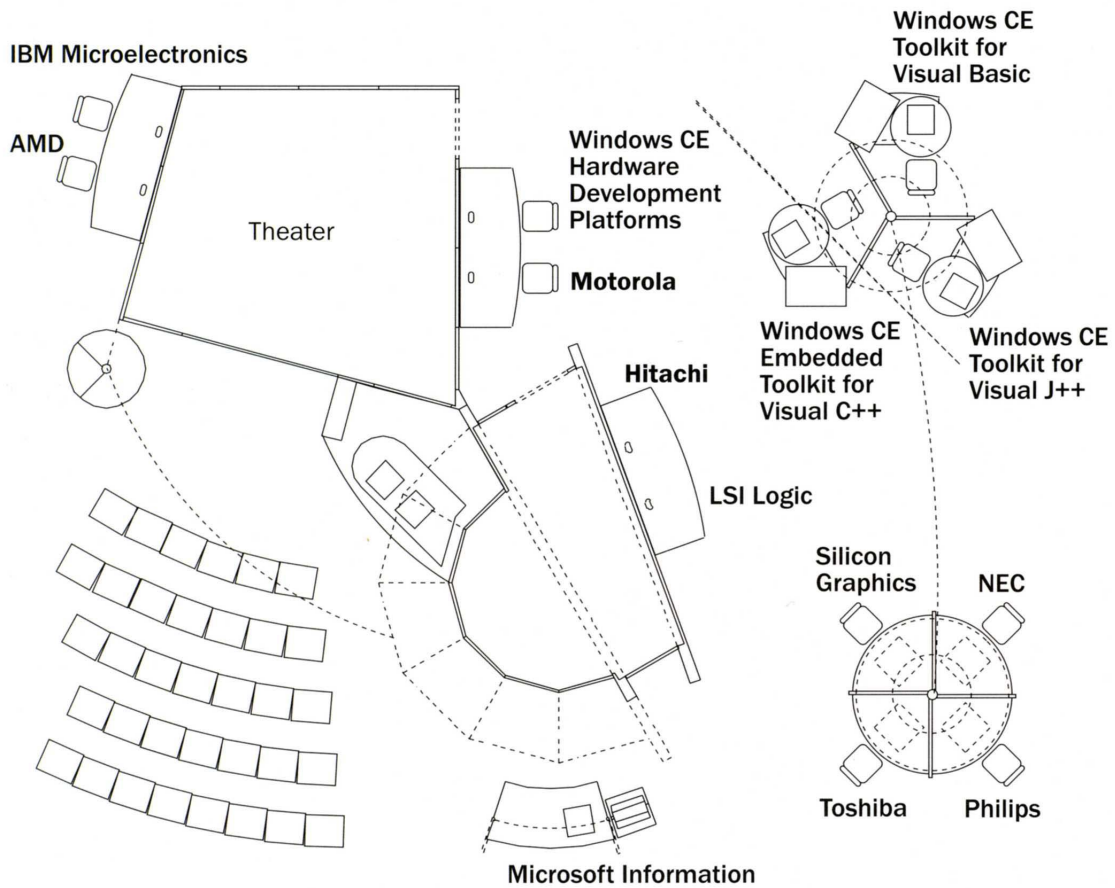
Silicon Graphics

MIPS is the world's leading RISC architecture and the award winning platform for Windows CE. The MIPS architecture is modular, scalable, extensible, and open, allowing MIPS semiconductor licensees to create optimized solutions for the full range of embedded and consumer applications targeted by Windows CE. Come to the MIPS area in the Microsoft booth and learn how you can take advantage of multiple design teams and multiple implementations of the MIPS architecture for your award winning Windows CE application.

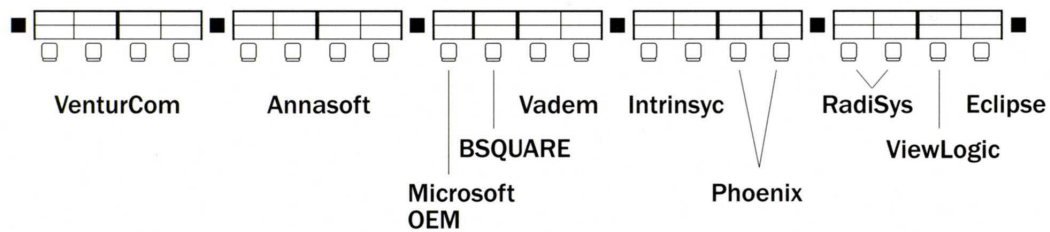
Toshiba

Toshiba's TX3900 family of MIPS RISC Microprocessors supports Windows CE applications. They're ideal for mobile information terminals. They feature high performance and low power operations by using Toshiba's 0.3mm process technology.

Corporate Booth



Partner Pavilion



Partner Pavilion #76

Stations

Annasoft Systems

Annasoft Systems provides Microsoft licenses and developer's kits for embedded PC design and production. Licenses are available for several versions of MS-DOS, Windows, Pen Extension, SystemSoft BIOS, and M-Systems flash memory software. In some cases, reference hardware designs are available. Annasoft's Embedded Windows CE Initiative helps shorten CE development time.

BSQUARE Corporation

BSQUARE announces the availability of its newest custom adaptation services for the integration of the Windows CE operating system with various popular processors. As a Microsoft-sanctioned systems integrator, BSQUARE is the largest supplier of software products and services to the emerging and rapidly growing market for the Windows CE operating system.

Eclipse International, Inc.

Eclipse International, Inc. is a technology company specializing in Windows CE based system products and services. Eclipse International provides Windows CE evaluation systems, board level computers and chip set solutions. Eclipse International also provides standard Windows CE training programs, technical support for ISVs, IHVs and OEMs. Eclipse International is a worldwide distributor for Windows CE OEM licenses.

Intrinsyc Software, Inc.

Intrinsyc Software, Inc. supplies software tools and components for the development of Win32 based embedded systems. These tools and components enable customers to rapidly develop and deploy software applications for a wide range of consumer and commercial electronic products. Intrinsyc will be demonstrating Integration Expert, a comprehensive suite of development tools that deliver everything needed to define, analyze, integrate, configure, and deploy Win32 embedded systems. Intrinsyc Rainbow is the world's first HTTP server for Microsoft's Windows CE operating system. Rainbow is a key enabling software component that allows Windows CE based embedded computers to communicate using HTTP. Intrinsyc WinFT incorporates a unique approach to fault detection and correction, enabling Win32 developers to improve availability and reliability of their applications in a cost-effective manner.

Microsoft OEM

Microsoft will showcase the latest in Systems Integration technology for Microsoft Windows CE, Windows NT, Windows 95, Windows, and Microsoft MS-DOS. Microsoft representatives will be available to discuss licensing for these Microsoft operating systems.

Phoenix Technologies

Phoenix Technologies PICO Group offers software foundations which provide an optimum solution to meet today's advanced requirements for the Information Appliance market. Portable, reusable, documented and tested, PICO foundations aid system developers by improving time to market, ensuring standards compatibility and adding feature and function value to systems.

Phoenix PicoPAL/CE with Enhanced Power Management provides a complete silicon specific interface and power management behavior control of any Windows CE system on both RISC and x86 based Windows CE platforms.

RadiSys Corporation

Modular Pentium Processor-based CE Solutions Product/Technology: EPC-43 - x86 CE Reference Platform: The EPC-43 is a modular, PC-compatible single-board computer featuring the Intel 430HX PCIset, 512K L2 cache and Flash based loader. This platform provides I/O support for VGA display system on the PCI bus, serial ports, keyboard and mouse interfaces. With CE resident in PCI based flash, this powerful combination offers driver support for Cirrus VGA controller and a read/write FFS driver.

Vadem

Vadem Windows CE System Solutions

EzCE Reference Platforms - Production-ready reference design for Windows CE systems complete with schematics, device drivers, and BOM.

EzCE Development Kit - Quick development of Windows CE applications and hardware prototyping of Windows CE systems.

System Integration Services - Customization of hardware platforms and device drivers.

Windows CE Training - Hands-on training with evaluation/development platforms.

VenturCom, Inc.

RTX is a common hard real-time environment for Windows NT and CE applications. RTX defines a real-time API (RTAPI) specifically for hard real-time use within a Win32 environment and provides a real-time subsystem (RTSS) that deterministically implements this API.

Viewlogic Systems, Inc.

Viewlogic Systems, Inc. - Workview Office - Viewlogic is showing innovative technology enabling the concurrent development of Windows CE hardware and software product. Our solution links the Microsoft Windows CE development environment to Viewlogic's tools for hardware design. This enables early integration of Windows CE and Hardware, prior to fabrication of the actual hardware. This innovation radically accelerates development and is a "Must Have" for any serious Windows CE embedded product development team.

Launch Announcement September 30th, 7:00 AM in the Hilton Almaden Ballroom. Join us for breakfast as Harel Kodesh, General Manager of the Consumer Appliance Group, announces new advances for the Windows CE operating system for embedded systems.

Launch Party at San Jose Live! September 30th, 8:30 PM. Come join the fun at one of San Jose's hottest attractions. There will be plenty of prizes to win, food, drinks and good company. With a special guest appearance, this is one party you won't want to miss!

Don't miss out...

on any of Microsoft's Windows CE activities at Embedded Systems Conference!

Win a FREE handheld PC by entering the New Directions contest. A lucky winner will be picked each day, so be sure to enter. Details available at the Information counter in the Microsoft booth #1228.

Microsoft Windows CE

Theater presentations Stop by the Microsoft booth #1228 and watch one of the daily theater presentations on version 2.0 of the Windows CE operating system as well as demonstrations on how to develop embedded applications with the new Windows CE Toolkits for Visual C++, Visual Basic and Visual J++.

...and

FREE Windows CE

Version 2.0

Beta Toolkit CD

Stop by either Microsoft booths (#1228 & #76) and find out how to receive your free Windows CE Version 2.0 BetaToolkit CD!



W o r k i n g w i t h

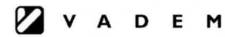


Philips
Semiconductors

NEC
NEC Electronics Inc.



RadiSys.



Microsoft®