Operating Systems and Tools for StrongARM**

Operating System	Vendor	Description	SA-110 Status	SA-1100 Status
AMX*	KADAK Products Ltd. http://www.kadak.com	Features include rapid task context switching, fast interrupt response, nested interrupts with priority ordering, preemptive priority-based scheduler, and more.	Available	Available
C EXECUTIVE*	JMI Software Systems, Inc. http://www.jmi.com	Features ROMable and multitasking kernel for real-time embedded systems. Offers system designers a complete execution environment for applications written in C.	Available	Available
CMX-RTX	CMX Company http://www.cmx.com	Provides task, semaphore, event, queue, UART, timer, memory, message, and system management in real-time. Includes source code.	Porting	-
EPOC32	Symbian http://www.symbian.com/tech/tech.html	Designed for smart phones or for mobile network or hand-held computers. Includes a suite of fully featured PIM, productivity, and communications applications.	_	Porting
GEOS-SC*	Geoworks http://www.geoworks.com	Addresses the specialized needs of wireless and mobile users. A layered, modular design that allows manufacturers to select required functionality.	-	Porting
Helios*	Perihelion Distributed Software Ltd. http://www.perihelion.co.uk	Multi-threading, multi-tasking ROMable operating system; internetworking and communication modules, flash file system also available. Targeted at internet devices.	Available	Available
Inferno*	Lucent Technologies, Inc. http://www.lucent.com/inferno	Delivers interactive services through a variety of networks, providing universal access to resources and information.	-	Available
IxWorks	Wind River Systems, Inc. http://www.windriver.com	A real-time operating system that provides a single plug-in framework for communicating with Intelligent I/O drivers.	Available	-
Chorus OS	Sun Microsystems, Inc. http://www.java.sun.com/chorusos/	Supports multiple application programming interfaces simultaneously on a single platform providing an open environment for integrating third-party software.	-	Porting
Linux	Various http://linux.reo.dec.com	A free, redistributable reimplementation of the POSIX specification, with SYSV and BSD extensions. Available in both source code and binary form.	Porting	Porting
NetBSD	NetBSD http://www.netbsd.org	A free, redistributable, UNIX-based operating system.	Available	Available
Nucleus PLUS	Accelerated Technology Incorporated http://www.atinucleus.com	Provides a set of real-time services including task control, communication, and synchronization; memory management; and programmable timers.	Available	Available
OS-9	Microware Systems Corporation http://www.microware.com	Targeted for embedded products and consumer products such as Digital television, wireless communications, and Internet appliances.	-	Available
Precise/MQX*	Precise Software Technologies, Inc. http://www.psti.com	Designed for high-availability, high-reliability applications. Offers embedded I/O components that support various networking and datacom protocols.	Available	Available
pSOS	Integrated Systems Inc. http://www.isi.com	pRISM+ environment that contains tools such as editors, language browsers, source code control front ends, compilers, assemblers, linkers, and debuggers.	Available	Available
RTXC	Embedded System Products, Inc. http://www.esphou.com	A configurable real-time kernel that is small, fast, ROMable, and completely configurable. Distributed in source code and royalty-free.	Porting	-
ThreadX*	Express Logic, Inc. http://www.expresslogic.com	Speed-oriented, deterministic, highly optimized, picokernel architecture that helps your application respond to external events quickly.	Available	Available
μCOS	Freeware	Portable, ROMable, preemptive, real-time, multitasking kernel for microprocessors.	Available	Available
VRTXsa	Mentor Graphics Corporation http://www.mentorg.com/microtec	A real-time operating system optimized for embedded applications.	Porting	-
VxWorks*/Tornado	Wind River Systems, Inc. http://www.windriver.com	An object-oriented microkernel design that is fast, efficient, highly scalable, and highly modular.	Available	Available
Windows CE*	Microsoft Corporation http://www.microsoft.com/products/prodref/120_ov.htm	A 32-bit, multitasking, multithreaded operating system with an open architecture design that provides support for a variety of devices.	_	Available
Tool	Vendor	Description	SA-110 Status	SA-1100 Status
ARM** SDT	Advanced RISC Machines, Ltd. http://www.arm.com	A C cross-development tool set for ARM processors. Two window tools automate the process of building your system and provide an environment to debug programs.	Available	Available
C/C++* compilers	MetaWare Incorporated. http://www.metaware.com/spb_earm.html	A toolset for the ARM architecture containing such features as branch prediction for improved code generation and a branch profile lister that flags code "hot spots."	Available	Available
GNU	Various http://www.fsf.org	Freely available from a number of sites on the Internet and runs on a variety of platforms.	Available	Available
C, C++, MULTI*	Green Hills Software, Inc. http://www.ghs.com	C and C++: high-level, high-performance languages; C++ supports Embedded C++ standard. MULTI: integrated development environment for embedded applications.	Available	Available

For More Information

To learn more about the availability of StrongARM microprocessors and evaluation platforms and boards, contact your local semiconductor distributor. If you need technical support, a *Product Catalog*, or help deciding which documentation best meets your needs, visit the Intel World Wide Web Internet site:

http://www.intel.com

Intel literature may be obtained by calling **1-800-332-2717** or by visiting Intel's website for developers at:

http://developer.intel.com

or contact the Intel Massachusetts Information Line:

United States and Canada:

1-800-332-2717

Outside North America:

1-303-675-2148

Electronic mail address:

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For technical support, contact the Intel Massachusetts Customer Technology Center:

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Operating Systems and Tools for StrongARM** Quick Reference Card

Overview

This card identifies operating system and tool vendors currently working with StrongARM. ** It is intended for hardware and software developers and designers planning to incorporate StrongARM microprocessors or evaluation platforms and boards in their products.

StrongARM Microprocessors

The Intel SA-110 and SA-1100 microprocessors are devices targeted to provide:

- Portable applications with high-end computing performance at low-power performance
- Embedded applications with high performance computing with significant MIPS-per-dollar and MIPS-per-watt advantages

StrongARM Evaluation Platforms and Boards

The EBSA-285 evaluation board, order number 21A85-01, provides a flexible hardware environment to help manufacturers quickly incorporate the SA-110 microprocessor and 21285 core logic chip into their products. This hardware expedites the development of applications that require an SDRAM memory subsystem, PCI I/O, and high integration in a low-cost design.

The SA-1100 development board, order number DE-1S110-0A, offers an SA-1100 hardware developer's kit and evaluation platform that can be used as a hardware reference design and as a tool for developing and testing software. It includes the SA-1100 processor, onboard memory (SRAM, DRAM, Flash, and ROM), LCD panels, touch screen, keyboard, audio accessories, PCMCIA connector, serial I/O interfaces, and logic analyzer connectors.

