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PARTNER for Symbian OS, an integrated professional debugger for Symbian OS developers.

Kyoto Japan, June 16, 2005: Embedded Linux debugger, T-Engine debugger and JTAG ICE specialist Kyoto Micro Computer (KMC) today announced to show the prototype of "PARTNER for Symbian OS" which supports debugging of Symbian OS projects using PARTNER-Jet at Symbian Summit Tokyo.

The PARTNER for Symbian OS is a new debugging system for professionals who develop mobile phone based on Symbian OS. Developers can use KMC's flagship JTAG-ICE "PARTNER-Jet" without changing preferred editors and compilers.

The debugging of kernel, device drivers, and applications can be performed with the same operation without concerning execution mode. The PARTNER for Symbian OS also has a powerful profiling feature.

Syoichi Yamamoto, president and CEO of KMC, said "As we announced on April 25, we became a Platinum Partner of Symbian and we started a project to support Symbian OS. We already developed a prototype version of new debugging system and we'll show you demonstrations at Symbian Summit Tokyo (<http://www.symb-summit.jp/info/>) on June 21, 2005. The PARTNER for Symbian OS has several features such as new and powerful profiler which the other debuggers have never had and simultaneous debugging of kernel, device drivers, and applications using our high-speed JTAG-ICE PARTNER-Jet. We'll also apply our own technologies to PARTNER for Symbian OS such as multi-core support."

About PARTNER-Jet:

The PARTNER-Jet is KMC's flagship JTAG ICE which unleashes the power of JTAG, offering several features including huge trace memory, multi-core CPU support, support for embedded operation systems such as Linux, virtual communication through JTAG (VLINK technology), USB 2.0 support, Ethernet (100BASE-TX) support, interface for optional equipment. The PARTNER-Jet supports several CPUs by replacing debugger software PARTNER (models 20 and 30 only). The PARTNER for Symbian OS is a KMC's debugger software which uses KMC's PARTNER-Jet JTAG ICE.

Profile: Listing of most time consuming function in each module

No.	Percent (Sum)	Samples	Addr	Name
1.	6.3%	8,326	27 F8F28838	hel\lowerId.EXE
2.	5.9%	8,111	24 F8F0F888	Leuser_dll
3.	4.9%	6,716	21 F8F0617C	hel\lowerId.EXE
4.	4.9%	6,716	17 F8F23242	hel\lowerId.EXE
5.	3.9%	5,243	17 F8F28888	hel\lowerId.EXE
6.	3.0%	4,237	13 F8F28400	hel\lowerId.EXE
7.	2.9%	4,094	12 F8F28280	hel\lowerId.EXE
8.	2.8%	3,842	12 F8F120F4	hel\lowerId.EXE
9.	2.8%	3,842	10 F8F28898	hel\lowerId.EXE
10.	2.3%	3,128	10 F8107262	Leuser_dll
11.	1.8%	2,403	8 F810726A	Leuser_dll
12.	1.8%	2,403	7 F8F28280	hel\lowerId.EXE
13.	1.4%	1,878	6 F8F28410	hel\lowerId.EXE
14.	1.1%	1,424	5 F8F28788	hel\lowerId.EXE
15.	1.1%	1,424	5 F8F28892	hel\lowerId.EXE
16.	1.1%	1,424	5 F8F28876	hel\lowerId.EXE
17.	1.1%	1,424	5 F8F17E80	DBGU32.LLL
18.	1.1%	1,424	5 F8F07200	hel\lowerId.EXE
19.	0.9%	1,200	4 F8F287FA	hel\lowerId.EXE
20.	0.9%	1,200	4 F8F28836	hel\lowerId.EXE
21.	0.9%	1,200	4 F8F02F00	hel\lowerId.EXE
22.	0.8%	1,072	4 F8842C10	hel\lowerId.EXE
23.	0.9%	1,200	4 F8017F00	hel\lowerId.EXE

Profile: Listing of consumption time of each module

No.	Percent (Sum)	Samples	Addr	Name
1.	29.7%	42,720	127 F8F28418	hel\lowerId.EXE
2.	29.2%	42,000	125 F8F02000	hel\lowerId.EXE
3.	20.3%	29,300	88 F8F02F18	super.dll
4.	3.0%	4,200	15 F8F02F18	super.dll
5.	2.5%	3,500	11 F8F02F18	super.dll
6.	2.1%	2,900	8 F8F02F18	super.dll
7.	1.8%	2,500	5 F8F02F18	super.dll
8.	1.8%	2,500	8 F8F02F18	super.dll
9.	1.8%	2,500	6 F8F02F18	super.dll
10.	1.8%	2,500	5 F8F02F18	super.dll
11.	0.9%	1,200	4 F8F02F18	super.dll
12.	0.9%	1,200	4 F8F02F18	super.dll
13.	0.9%	1,200	4 F8F02F18	super.dll
14.	0.7%	1,000	3 F8F02F18	super.dll
15.	0.4%	600	2 F8F02F18	super.dll
16.	0.4%	600	2 F8F02F18	super.dll
17.	0.4%	600	2 F8F02F18	super.dll
18.	0.2%	300	1 F8F02F18	super.dll
19.	0.2%	300	1 F8F02F18	super.dll
20.	0.2%	300	1 F8F02F18	super.dll
21.	0.2%	300	1 F8F02F18	super.dll
22.	0.2%	300	1 F8F02F18	super.dll

Features of PARTNER for Symbian OS

- **High-speed:** Using our flagship high-speed JTAG-ICE "PARTNER-Jet", the PARTNER for Symbian OS provides a super fast debug environment for development projects on Symbian OS. Optional emulation memory allows downloading of kernel code in a flash, saving time to write to FLASH memory.
- **Profiler:** The PARTNER for Symbian OS measures consumption time in each function and profiles performance of all system routines, device drivers, and applications without completed hardware settings. You can easily find bottleneck routines and improve them to gain speed for entire system. This profiling feature is built into the PARTNER debugger and you can profile your system by function or module basis even in debugging operation. This profiling feature will be applied to PARTNER debugger series for the other platforms such as embedded Linux.
- **Simultaneous debugging in each execution modes:** You can debug kernel, device drivers, and applications simultaneously in each execution modes using PARTNER-Jet. The PARTNER automatically resolves execution addresses relocation assigned by *rombuild* and translates debugging information to appropriate debug action. For example, you can set a new break point in kernel code while you are stepping through an application and the kernel code will stop at specified break point.
- **View process and task information:** You can see task information when the target system is stopped, allowing you easily to find dependencies among tasks and execution mode of tasks.
- **User interfaces:** The PARTNER for Symbian OS has two user interfaces and you can choose your favorite way -- graphical user interface or command-line interface. You can use macros and history or whatever else for your command-line environment to improve efficiency of debugging.

Operating Environment

- Target OS: Symbian OS 8.1b EKA2
- Target CPU: ARM
- Host machine: Microsoft Windows 2000/XP

Contact us for product release schedule and how to get pre-release version.