AT91SAM9260使用说明 http://group.ednchina.com/2549/ http://shop35912616.taobao.com/

AT91SAM9260硬件资源



硬件资源详细清单

主芯片

一片AT91SAM260(QFP208绿色封状),内核ARM26EJ-S, 180ML 200MIS, 8长数据 Cache, 8长指令Cache。

存储器

```
SIRAM 2片镁光SIRAMM48LC16M6A2),共64MBYIES。
NANFLASH 一片三星 mandflash KFF1G06L0B 128M BYTE。
DATAFLASH 一片atnel dataflashAT45DB21-SU 4M BYTE
IMAGINET PHY + HR911105A组成的10M100M人太网接口。
→ ^ SD CARD SLOT
一个.TAG 20 PIN调试接口
音频IMC AT73C213(未焊接)1个耳机接口,一个MC输入,一个LINE 输入。
5V直流电源输入。3.3V.1.8V系统电源。
一个2线11日接口,一个9线串口(未焊接),一个4线串口。
```

开发板资源 硬件原理图 开发板各个子部件测试软件 UCOS移植源代码 Linux移植代码包,UBOOT移植代码包等 Linux移植文档 制作根文件系统的BUSYBOX移植文档 制作JFFS2文件系统文档 网络收音机移植文档

使用SAM-BA下载Linux映像文件

1. 首先检查开发板上DATAFLASH左边跳线帽是否拔去,如果没有拔去则需要拔去,这样可以避免运行DATAFLASH内程序而直接运行SAM-BA程序。



2. 打开5V直流电源,接上USB连接线(第一次连接电脑会提示安装驱动),电脑上会显示连接到USB设备,点击SAM-BA运行该软件。 选择AT91SAM9260-EK,点击Connect按键。



会弹出如下对话框,在对话框中上方有显示存储器中数值的窗口,下方是选择不同的存储器,针对不同存储器有不同的操作命令,选择好操作命令后,点击EXECUTE按钮就能执行相应的操作。

Script File Link Help at91sam9260 Memory Display Applet fraces on DBGU_ (racei n byte(s); (x100) Applet fraces on DBGU_ (racei n byte(s); (x100) Applet fraces on DBGU_ (racei n byte(s); (x100) 0x00200000 0x24000020 0x7FFFFFFF 0x00000000 0x00000000 0x00200010 0x00200444 0x00000000 0x00000000 0x00000000 0x00200020 0x00000000 0x00000000 0x00000000 0x00000000 0x00200040 0x00000000 0x00000000 0x00000000 0x00000000 0x00000000 0x00200040 0x00000000 0x000000000 0x00000000	SAM-BA 2.9 - at91	sam9260-ek					
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调试测试程序

连接5V直流电源,使用J-LINK连接JTAG接口,使用交叉串口线连接电脑串口和开发板DBGU两线串口(J15).

电脑上设置好超级终端参数.打开超级终端用于观察串口输出内容



安装IAR FOR ARM 开发环境

打开安装目录下9260的范例工程getting-started-project.eww

🔏 IAR Embedded Workbench IDE			
<u>File Edit View Project Tools Wi</u>	ndow <u>H</u> elp		
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	debu 我的电脑 网上邻居		ges pwnload pr nage your o
	Run becc the I of thy debugger.	文件名 (M): getting-started-project.eww ▼ 打开 (D) 文件类型 (T): Workspace Files (*.eww) ▼ 取消 report a problem.	

编译调试		程	
<u>File Edit View Project Tools Win</u>	dow	<u>H</u> elp	
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Workspace		×	AT915AM9260.h board_cstartup_iar.s_main.c at91sam9260-ek-sram.mac dbgu.h trace.h board.h pio.c dbgu.
at91sam9260_sdram		-	/// \param delay Delay to wait for, in milliseconds.
Files	8 C		//
🗆 🗇 at91 sam9260-ek - at	~		void Wait(unsigned long delay)
			volatile ungigned int stort - timesterne
boards			unsigned int elanged.
📕 🗕 🖵 peripherals			do (
□ □ - 🖽 🗀 cp15			elapsed = timestamp;
📗 📄 🛏 🗀 dbqu			elapsed -= start;
-⊞ 🗀 irg			}
-⊞ <u>□</u> pio			while (elapsed < delay);
pit			}
pmc			
tc			1/
usart.c			// Exported functions
- E Cutput			11
assert.h			
AT91SAM926			
board.h			/// Application entry point. Configures the DBGU, PIT for SAM7 & SAM9
h chip.h			(((Configures TC)) IFDs and buttons and makes IFD(41 blink in its infinite
📗 📄 📥 dbgu.h			/// loon using the Wait function
DLib_Confiq			/// \return Unused (ANSI-C compatibility).
DLib_Default			//
DLib_Product.h			int main(void)
DLib_Thread			
pio.h			// DBGU output configuration
📗 🔚 🔚 stdio.h		-	TRACE_CONFIGURE (DBGU_STANDARD, 115200, BOARD_MCK);
_at91sam9260-ek			printf(" Getting Started Project %s\n\r", SOFTPACK VERSION);

FIAR Embedded Workbench IDE									
<u>File Edit View Project Debug</u> D	isassembly <u>J</u> -Link <u>T</u> ools <u>W</u> indow <u>H</u> elp								
D 🗲 🖬 🗗 🎒 🕹 🕮 🛱	L らっ l								
5 6 82252	ž 🗙								
Workspace ×	AT915AM9260.h board_cstartup_iar.s main.c at91sam9260-ek-sram.mac dbgu.h trace.h board.h pio.c dbgu.c us								
at91sam9260_sdram ▼ Files ? ⊡	/// loop, using the Wait function. /// \return Unused (ANSI-C compatibility). //								
→ at91sam92 ✓	<pre>int main(void) { // DBGU output configuration</pre>								
-⊕ C getting-star L⊕ C main.c	TRACE CONFIGURE (DBGU STANDARD, BOARD_MCK); printf(" Getting Started Project %s\n\r", SOFTPACK_VERSION); printf(" %s\n\r", BOARD_NAME);								
└─⊞ 🛄 Output	<pre>printf(" Compiled: %s %s\n\r",DATE,TIME); // Configuration</pre>								
	<pre>#if defined(AT91C_BASE_PITC) TRACE_INFO("configure pit.\n\r"); ConfigurePit();</pre>								
	#else // 1ms tick								
at91sam9260-ek	fo I								
× Log									
Sat May 29 20:13:37 2010:									
Sat May 29 20:13:37 2010: — AT91C_MATRIX_MRCR : 0x00000000 Sat May 29 20:12:37 2010: The Reman is NOT & REMAR									
Sat May 29 20:13:37 2010. — AT91C_MATBIX_MBCB_0x0000003									
Sat May 29 20:13:38 2010: 14268 bytes downloaded and verified (13.93 Kbytes/sec)									
Sat May 29 20:13:38 2010:	Loaded debugee: D:\Program Files\IAR Systems\Embedded Workbench 5.4\arm\examples\Atmel\at91s								
getting-started-project\ew	p\at91sam9260_sdram\Exe\at91sam9260_sdram.out								
Sat May 29 20:13:38 2010:	Target reset								
Sat May 29 20:13:38 2010:	execUserReset								

超级终端中会输出DEBUG信息 开发板上DS5会LED会闪烁

-- Getting Started Project 1.7-rc1 ---- AT91SAM9260-EK -- Compiled: May 17 2010 22:01:14 ---I- configure pit. 1 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 _

测试程序列表

basic-adc-project	文件夹	2010-4-6 19:47
🗋 basic-dataflash-project	文件夹	2010-4-6 19:47
🗋 basic-emac-project	文件夹	2010-4-6 19:47
🗅 basic-emac-uip-helloworld-project	文件夹	2010-4-6 19:47
🗋 basic-emac-uip-telnetd-project	文件夹	2010-4-6 19:47
basic-emac-uip-webserver-project	文件夹	2010-4-6 19:47
🗋 basic-fatefsl-project	文件夹	2010-4-6 19:47
basic-fatfs-project	文件夹	2010-4-6 19:47
basic-fatfs-sdcard-project	文件夹	2010-4-6 19:47
🗋 basic-fs-project	文件夹	2010-4-6 19:47
🛅 basic-isi-project	文件夹	2010-4-6 19:47
basic-iso7816-project	文件夹	2010-4-6 19:47
🗋 basic-nandflash-project	文件夹	2010-4-6 19:47
🗋 basic-norflash-project	文件夹	2010-4-6 19:47
🛅 basic-rtt-project	文件夹	2010-4-6 19:47
🛅 basic-sdcard-project	文件夹	2010-4-6 19:47
🛅 basic-sdmmc-project	文件夹	2010-4-6 19:47
🛅 basic-sd-spi-project	文件夹	2010-4-6 19:47
🛅 basic-serialflash-project	文件夹	2010-4-6 19:47
basic-ssc-i2s-at73c213-project	文件夹	2010-4-6 19:47
🛅 basic-twi-eeprom-project	文件夹	2010-4-6 19:47
🛅 basic-twi-slave-project	文件夹	2010-4-6 19:47
🛅 basic-usart-hw-handshaking-project	文件夹	2010-5-11 22:07
🚞 getting-started-project	文件夹	2010-5-11 22:20
🚞 usb-device-audio-speaker-project	文件夹	2010-4-6 19:47
🔁 usb-device-ccid-project	文件夹	2010-4-6 19:47
🔁 usb-device-cdc-serial-project	文件夹	2010-4-6 19:47
iusb-device-composite-cdcaudio-project	文件夹	2010-4-6 19:47
🔁 usb-device-composite-cdchid-project	文件夹	2010-4-6 19:47
usb-device-composite-cdcmsd-project	文件夹	2010-4-6 19:47
usb-device-composite-hidaudio-project	文件夹	2010-4-6 19:47
usb-device-composite-hidmsd-project	文件夹	2010-4-6 19:47
usb-device-core-project	文件夹	2010-4-6 19:47
usb-device-hid-keyboard-project	文件夹	2010-4-6 19:47
usb-device-bid-mouse-project	文件夹	2010-4-6 19:47
ush-device-bid-transfer-project	文件夹	2010-4-6 19:47
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	2010-4-6 19:47
ExampleDirInfo ENU yml	1 KB - YML Document	2009-7-9 11:10
= Evanbieoi tri o'rivo'yilli	T KO AME DOCUMBLIC	2009-7-9 11:10

如何下载LINUX映像文件

插上USB连接线,使PC识别到USB设备。

打开9260的LINUX烧录文件夹linux4sam-buildroot-at91sam9260ek

点击批处理文件at91sam9260ek_demo_linux_dataflash.bat

会弹出命令行提示下载正在进行。

名称 🔺	大小	类型	修改日期
at91sam9260ek_demo_linux_dataflash.bat	1 KB	MS-DOS 批处理文件	2009-9-24 17:30
at91sam9260ek_demo_linux_dataflash.tcl	5 KB	TCL 文件	2009-9-24 17:30
👅 at91sam9260ek_demo_linux_nandflash.bat	1 KB	MS-DOS 批处理文件	2009-9-24 17:30
at91sam9260ek_demo_linux_nandflash.tcl	5 KB	TCL 文件	2009-9-24 17:30
📼 dataflash_at91sam9260ek.bin	4 KB	BIN 文件	2009-9-24 17:30
🔤 genericfs.arm_nofpu.jffs2	12,682 KB	JFFS2 文件	2009-9-24 17:30
🔤 linux-2.6.27-at91-exp.3-at91sam9260ek.bin	1,444 KB	BIN 文件	2009-9-24 17:30
🗐 logfile.log	13 KB	文本文档	2010-5-30 15:03
🔤 nandflash_at91sam9260ek.bin	4 KB	BIN 文件	2009-9-24 17:30
u-boot-1.3.4-exp.3-at91sam9260ek-dataflash_cs1.bin	157 KB	BIN 文件	2009-9-24 17:30
國 u-boot-1.3.4-exp.3-at91sam9260ek-nandflash.bin	158 KB	BIN 文件	2009-9-24 17:30
🔤 ubootEnvtFileDataFlash.bin	17 KB	BIN 文件	2010-5-30 15:01

_ 🗆 X

ev C:\WINDOWS\system32\cmd.exe

H:\9260linux\linux4sam-buildroot-at91sam9260ek>sam-ba.exe \usb\ARMO AT91SAM9260 EK at91sam9260ek_demo_linux_dataflash.tcl 1>logfile.log 2>&1

下载完成后,会自动打开logfile.log文件,表示下载成功。

🝺 logfile.log - 记事本	-OX
文件(E) 编辑(E) 格式(○) 查看(Y) 帮助(H)	
-I- Waiting	
-I- TCL platform : Windows NT	
I -I- SAM-BA 2.9 on : windows	
-I- Retrieved arguments from command line :	
-I- argv 0 : \usb\ARMO	
-I- argv 1 : AT91SAM9260-EK	
-I- argv 2 : at91sam9260ek_demo_linux_dataflash.tcl	
-I- Connection : \usb\ARM0 (target(comType) = 0)	
-I- Board : at91sam9260-ek	
-I- Traces Level : 4	
-I- target(handle) : 18037608	
Read device Chip ID at 0xfffff240 get 0x019803a2	
-1- Found processor : at91sam9260 (Chip ID : 0x019803a2)	
-1- External RAM Settings : extRamVdd=1, extRamVype=0, extRamDataBusWidth=32,	
lextDDRamModel=0	
-I- Loading applet isp-extram-atylsamy260.Din at address 0x200000	
-1- Memory Size : 0x4000000 Dytes	
-1- Butter aduress : 0x2004H4	
-1- Buffer Size: 0x0 Dytes	
-1- Hhhter THILTAITSACTON DONE	-
	10200

重新上电或者复位开发板,可以通过超级终端看到UBOOT,LINUX启动的信息。

U-Boot 1.3.4 (Sep 24 2009 - 16:53:30) DRAM: 64 MB NAND: 128 MiB DataFlash:AT45DB321 8192 Nb pages: Page Size: 528 Size= 4325376 bytes Logical address: 0xD0000000 Area 0: D0000000 to D00041FF (RO) Bootstrap Area 1: D0004200 to D00083FF Environment Area 2: D0008400 to D0041FFF (RO) U-Boot Area 3: D0042000 to D0251FFF Kernel Area 4: D0252000 to D041FFFF FS In: serial Out: serial serial Err: macb0 Net: macb0: Starting autonegotiation... macb0: Autonegotiation complete macb0: link up, 100Mbps full-duplex (lpa: 0x41e1) Hit any key to stop autoboot: 1

进入SHELL,用户名: root

RPC: Registered udp transport module. RPC: Registered top transport module. rtc-at91sam9 at91 rtt.0: hctosys: unable to read the hardware clock VFS: Mounted root (jffs2 filesystem). Freeing init memory: 120K Populating /dev using udev: cannot open /dev/null done Starting portmap: done Initializing random number generator... done. Starting network... ip: RTNETLINK answers: File exists Starting network time protocol daemon: ntpd. Starting dropbear sshd: generating rsa key... generating dsa key... OK Starting ProFTPD: warning: 'proftpd' uses 32-bit capabilities (legacy support in use) - warning: unable to determine IP address of 'AT91SAM9' error: no valid servers configured - Fatal: error processing configuration file '/etc/proftpd.conf' FATI FD

Welcome to the Erik's uClibc development environment. AT91SAM9 login: root_

#ls											
bin e											
dev ho		lir	nuxnc								
# ls -l											
drwxrwxr-x	2	root	r	oot	0	Dec	9	2008			
drwxr-xr-x	7	root	r	oot	Ø	Dec	31	17:01			
drwxr-xr-x	8	root	r	oot	Ø	Dec	31	17:00			
drwxrwxr-x	3	root	r	oot	Ø	Dec	9	2008			
drwxr-xr-x	3	root	r	oot	0	Dec	9	2008	lib		
lrwxrwxrwx	1	root	r	oot	11	Dec	9	2008	linuxrc	->	bin/busybox
drwxrwxr-x	2	root	r	oot	Ø	Dec	8	2008			
drwxrwxr-x	2	root	r	oot	Ø	Dec	8	2008			
dr-xr-xr-x	41	root	r	oot	Ø	Dec	31	17:00			
drwxrwxr-x	2	root	r	oot	Ø	Dec	31	17:01			
drwxr-xr-x	_2	root	r	oot	Ø	Dec	_9	2008			
drwxr-xr-x	12	root	r	oot	0	Dec	31	17:00			
drwxrwxrwt	4	root	r	oot	180	Dec	31	17:01			
drwxrwxr-x	7	root	r	oot	Q	Dec	9	2008			
drwxrwxr-x	3	root	r	oot	Ø	Dec	8	2008			
#											

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