

Re: uCLinux on Samsung S3C4510B (ARM7TDMI) based wireless router

Source: <http://linux.derkeiler.com/Newsgroups/comp.os.linux.embedded/2003-07/0006.html>

From: pojen (pojen1_at_hotmail.com)

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Hi again;

It's what I know on Linux based wireless router:

You should consider there's only "two" wireless drivers support wireless AP, (Well, there's one more on <http://hunz.org/hermesap.html> to support Orinoco) but wlan-ng had already dropped it for a while...only hostap still. Hostap is kind of software AP, could eat a lot cpu power(maybe it's not that bad but...) and only support prism2/2.5/3?? It means only 802.11b base will support.

If those wireless chip companies don't release their AP firmware, It's hard to get support on A/G or ATMEL chip(alot new cards base on their chip). That's why the "Host"AP way or licence with them to get the firmware AP way. For a new project that's you have to think about.

pojen

"John Tetreault" <blkthorn30@nospam@verizon.net> wrote in message
news:KsbQa.6664\$Y92.951@nwrndny01.gnilink.net...

> "pojen" <pojen1@hotmail.com> wrote in message

> news:ber22f\$7habn\$1@ID-82445.news.uni-berlin.de...

> > Hi;

> > I hope I won't disappoint you too much. To begin a embed project from

> > scratch is hard.

> > First, you need a way to put your new stuff into the board(flash ram)

but

> > how?

> > You need a back door to allow you to do so. For eample, a JTAG connect

to

> > serial port or printer port, or a network download(TFTP). But how to

> switch

> > the original system mode to download mode? It's the first issue. Maybe

you

>

> I'm fairly certain I've got this covered... SpeedStream's knowledge base

> advises by pushing the reset button at a particular point during bootup,

it

> will prompt the router to download a new kernel from a BOOTP server.

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>
> > *will say, well how about the firmware upgrade? Most of the firmware
> upgrade*
> > *only allow you to touch a certain data but not all. For example, I will
> cut*
> > *my flash to three part: bootloader, kernel and system. Firmware upgrade
> will*
> > *only replace my system but not my kernel or bootloader. Only the
original*
> > *developer know how to open the back door. Lucklly, if you know how, then
> next step...*
>
> *This could be the problem... the bootloader.... Not sure if the BOOTP
> process above will take in a new bootloader (so I don't have to boot with
> BOOTP every time) probably not is my guess... although then I'm wondering
> if once I have the kernel loaded once, that will give me a way to load in
a*
> *new ready made (see next comment) bootloader.*
>
> > *Second, you need a new boot loader to replace the original one to
support*
>
> *I've seen linux bootloaders for this particular chip in my searches on the
> web, so I'm hopeful I won't have to write one (I doubt my programming
skills*
> *would be up to the task)*
>
> > *ps. I will suggest you to begin a project on x86 system first(ex. XBOX
> project). Because no BIOS is really a pain.*
>
> *hehe... Thanks... Unfortunately, this isn't just a "I'm bored, lets start
a*
> *new project and learn how to embed linux in whatever I can find" sort of
> thing... This is a specific need that has prompted me to even consider
this*
> *project. ie the need for the features that only a Linux based wireless
> router can provide.*
>
>