Re: Embedded Ethernet platforms −− your view

Source: http://coding.derkeiler.com/Archive/General/comp.arch.embedded/2007−08/msg01201.html

- *From*: "tcpip" <dorovskoy@xxxxxxxxxxx>
- *Date*: Sun, 26 Aug 2007 12:11:37 −0400

I'm using Technologic Systems devices. They have everything what I want and with their 500MHz ARM running Linux board (128MB RAM and
512MB fast flash, GB ethernet) I'm more than happy.
BTW, no fans needed.
http://www.embeddedarm.com/epc/ts7800−spec−h.htm

Regards,
Igor D.

"A. Scott" <asdel2@xxxxxxxxx> wrote in message
news:0KSdncake8ECiFLbnZ2dnUVZ_q6hnZ2d@xxxxxxxxxxxxxxx

> Dear Embedded folks,
>
> I am looking for guidance with selection of a hardware development platform and tools for a new project. The task is essentially to embed an Ethernet router in an existing system, which will consume some network traffic (TCP/IP) and forward the rest. As a first phase, we would like to get a working hardware platform for code development; later we roll our own hardware based on the selected controller. I have been surveying platforms that provide Ethernet connectivity and sufficient horsepower to process level−2 packets; the toughest part has been finding appropriate development tools.
>
> From what Iâ??ve learned here and elsewhere, the Freescale ColdFire (e.g. MCF5282) or an ARM−based device (e.g. AT91RM9200, Samsung S3C4510B) are suitable controller choices. At this point I am leaning towards ColdFire based on praise of the architecture.
>
> I have been evaluating the NetBurner MOD5282 (http://www.netburner.com/products/core_modules/mod5282.html) . While it is a nice, compact package, it appears ill−suited for this project: the debug interface is via the network connection, making it difficult to test custom network drivers â?? a straight−ahead BDM debug interface seems more appropriate.
>
> The Axiom Manufacturing CML−5282 development board (http://www.axman.com/?q=node/52) seems like a nice basic ColdFire platform with BDM support. Anyone have experience with this?

I see P&E Micro has a BDM−based development suite. It appears the tools donâ??t support C++, but that is not a deal−breaker. Any comments on these products?

On the ARM side, Iâ??ve heard there are many good tool vendors. Is there a development/debug package that is head and shoulders above others?

Other items on the wish list include:
o TCP/IP stack
o Full Source code for any provided drivers, RTOS, etc
o Full hardware schematics
o Small development platform/module preferable

Time−to−demo is more critical than cost at this point.

With thanks for any and all feedback,
~Scott

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