



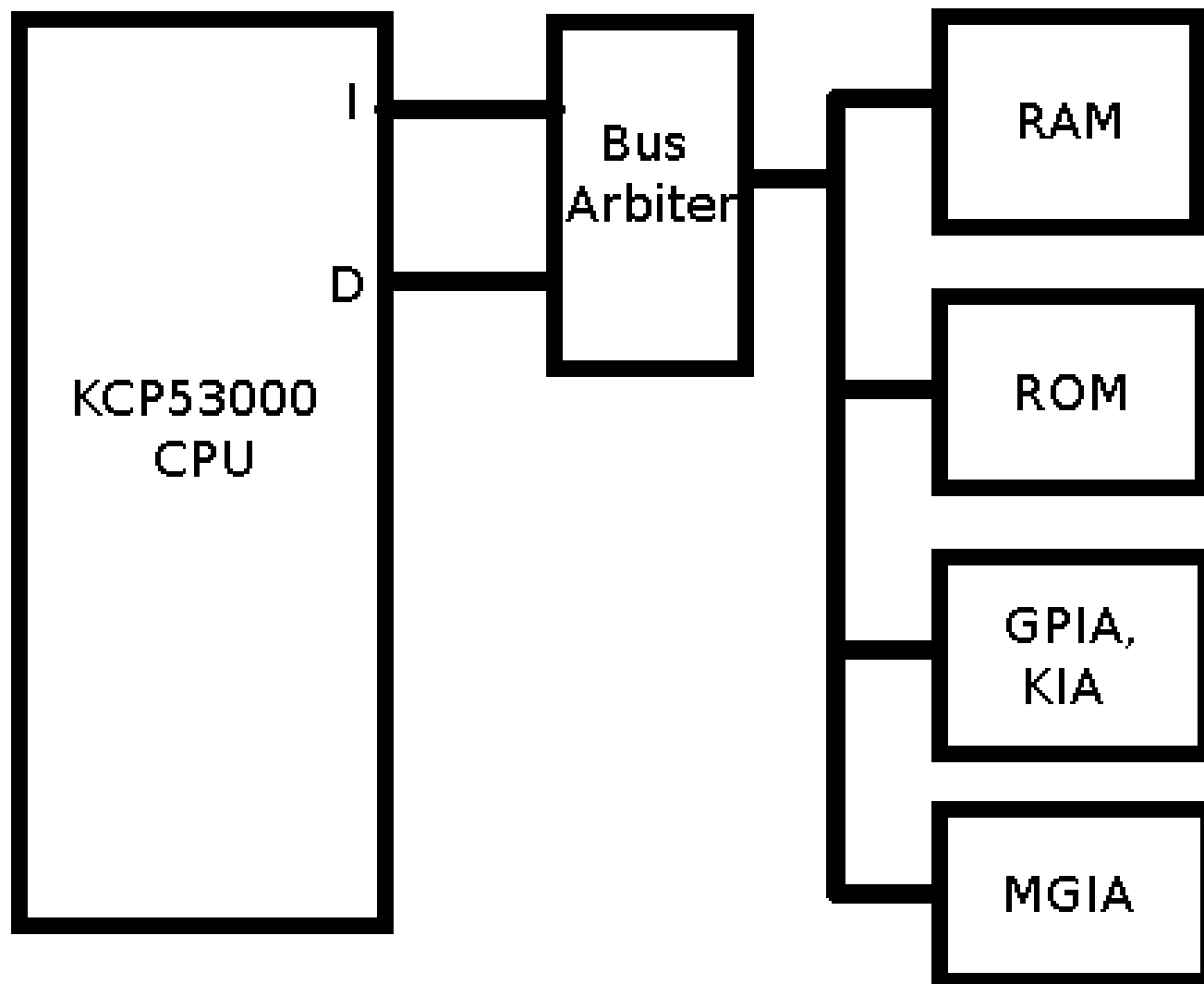
Kestrel Computer Project
Kestrel-3
Running eForth 1.0!

Kestrel-3 Project Status

- * Obviously, software emulation works. ;-)
- * KCP53000 CPU design in Verilog **now available** via GitHub.
<https://github.com/kestrelcomputer/polaris>
- * **Physical CPU != Emulated CPU**
 - * CSRs are different
 - * Performance is different
 - * Physical CPU supports interrupts.
- * **eForth 1.0 ported to run in firmware!**
 - * It's powering this slide show right now.
 - * BLOCKs only for now. No filesystem.

Kestrel-3 Project Status

Crude Block Diagram



Kestrel-3 Project Status

- * Except for video refresh, no specialized hardware acceleration.
- * Runs more or less around 6 MIPS in emulation.
- * Expected to run about the same in physical hardware.

But, there's a problem:

- * eForth's compiler runs much more slowly than anticipated.
- * Around 1 second to compile 1024 bytes of Forth code.
- * Perfect opportunity for anyone interested to contribute!

Kestrel-3 Project Status

If you're interested in helping the Kestrel Project, and are willing to learn my RISC-V development tools (they are proprietary, but not hard to learn), this is a great opportunity to contribute to the project.

You can reach me via e-mail at <kc5tja@arri.net>. Or, visit the project page on Github:

<https://github.com/kestrelcomputer/kestrel>

Thank you for your attention!

Q & A