eBPF ABI

Want to collaborate?
What is an ABI?

Everyone knows that, obviously!
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An application binary interface (ABI) defines the requirements that one or more binary software objects must meet in order to guarantee that they can interoperate and/or use the resources provided by operating systems/hardware combinations.
Overview

• Goal
• Who Am I? Why Am I Qualified?
• Early Effort and Collaboration Hub
• Going Forward
Goal

Create a *generic* ABI for eBPF, with support for processor-specific supplements for different *implementations*

- E.g., the Kernel, Windows, FreeBSD, Agilio CX

The scenario would resemble the setup for the [SystemV ABI](https://en.wikipedia.org/wiki/System_V_ABI).
Who Am I? Why Am I Qualified?

• I am not qualified! But,

• I love obscure things that are heavy on details.

• I am a computer science professor and co-maintainer of the uBPF implementation with Alan Jowett from Microsoft.
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Early Effort and Collaboration Hub

https://github.com/hawkinsw/ebpf-system-ad-abi

The current text has been scraped together in a few weeks – please be gentle!

Open Question: Is this setup an acceptable means of collaboration?