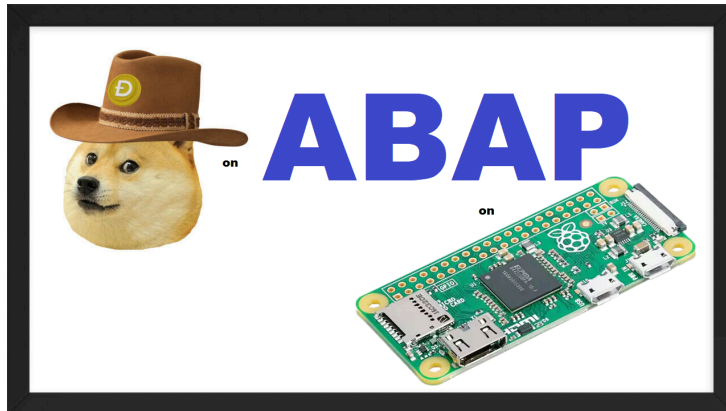


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# Running Scrypt in Rust on ABAP on Raspberry PI Zero



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March 17, 2024

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Running ABAP code on a Raspberry PI Zero [has been possible for some time](#). Executing JavaScript on it is slow, running ABAP transpiled to JavaScript is even slower, lets see if we can find worse use-cases?

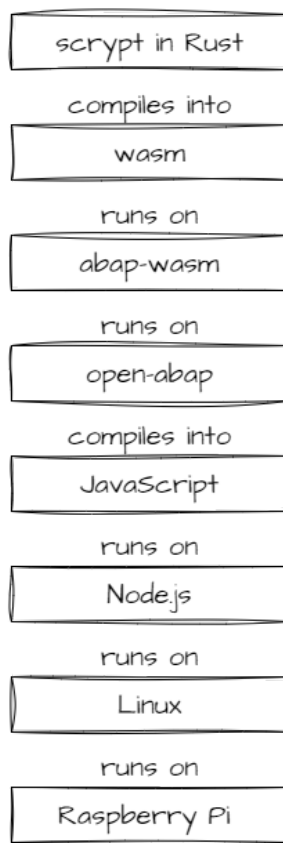
*Mining [DogeCoin](#) on ABAP running on Raspberry PI!*

DogeCoin uses the [Scrypt algorithm](#) for heavy calculations, it does however(?) not exist in ABAP, so I thought it might be easier to [implement it in Rust](#).

That gives another challenge, how to run Rust on ABAP? Well, back in 2020 I submitted a [project for the Devtoberfest](#), and now in 2024 its got mostly rewritten from scratch.

[abap-wasm](#) is a Virtual Machine/Runtime for [WebAssembly](#) in ABAP.

The full stack then looks like this:



Needless to say, don't do this at home, it will run too slow to mint any coins. But the technology stack is interesting.

Being able to run WebAssembly on ABAP opens up doors to other ecosystems, the tradeoff being slow code execution, but I think it still have use-cases. The implementation is multi-target it runs on Classic ABAP + ABAP Cloud Programming Model + [open-abap](#).

Give it a go, [abap-scrypt-test](#)

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