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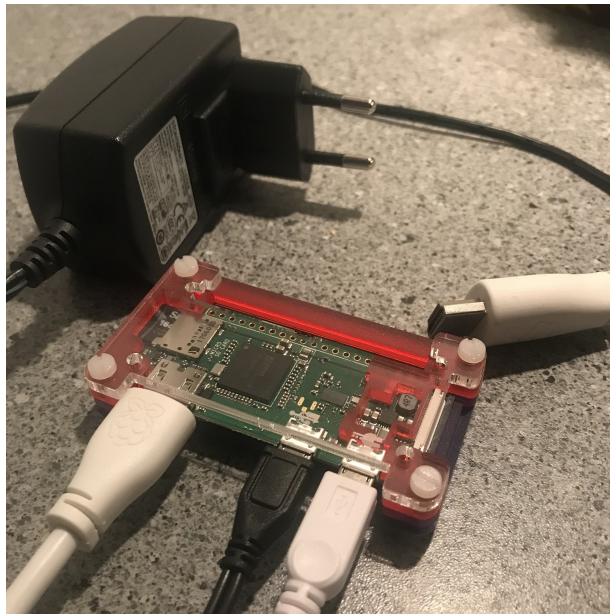
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Running some ABAP on a Raspberry Pi Zero

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Back in 2018 I procured a [Raspberry Pi Zero W](#) it is a single core 1GHz ARMv6 CPU with a whopping 512MB RAM, it is the slowest PC that I own, where I have peripherals that can connect to it.



Raspberry Pi Zero W

Running a traditional ABAP system on it will probably not work? But we have workarounds like <https://github.com/abaplint/transpiler> and some code <https://github.com/larshp/abap-advent-2020> which will run on it.

The transpiler requires at least [NodeJS 12](#) to run, and support for ARMv6 was deprecated from NodeJS 12. Luckily unofficial builds exist, I followed the guide at <https://hassancorrigan.com/blog/install-nodejs-on-a-raspberry-pi-zero/> to get it running.

Then run the following commands,

```
git clone https://github.com/larshp/abap-advent-2020

cd abap-advent-2020

npm install

npm test
```

And *some* ABAP code is running, very slow, very restricted functionality, but running 😊

```
abaplint 2.67.0
Using config: /home/pi/git/abap-advent-2020/abaplint.json
100% - 0.3s - Reading files - zcl_advent2020_day24_hvam.clas.xml
Clone: https://github.com/open-abap/open-abap
100% - 0.2s - Reading files - if_sxml_value_node.intf.abap
100% - 28.7s - Lexing and parsing(v740sp08) - INTF IF_SXML_VALUE_NODE
100% - 3.5s - Global OO types(pass 1), next pass: 17
100% - 0.4s - Global OO types(pass 2), next pass: 0
100% - 5.1s - Run Syntax - IF_SXML_VALUE_NODE
100% - 0.4s - Initialize Rules - xml consistency
100% - 18.2s - Finding Issues - CLAS ZCL_ADVENT2020_DAY24_HVAM
abaplint: 0 issue(s) found, 85 file(s) analyzed

> abap-advent-2020-hvam@1.0.0 downport /home/pi/git/abap-advent-2020
> rm -rf downport && cp src -r downport && abaplint --fix abaplint_downport

abaplint 2.67.0
Using config: abaplint_downport.json
100% - 0.2s - Reading files - zcl_advent2020_day24_hvam.clas.xml
Clone: https://github.com/open-abap/open-abap
100% - 0.2s - Reading files - if_sxml_value_node.intf.abap
100% - 27.0s - Lexing and parsing(v702) - INTF IF_SXML_VALUE_NODE
100% - 3.7s - Global OO types(pass 1), next pass: 20
100% - 0.7s - Global OO types(pass 2), next pass: 1
100% - 0.1s - Global OO types(pass 3), next pass: 1
100% - 4.2s - Run Syntax - IF_SXML_VALUE_NODE
100% - 0.0s - Initialize Rules - whitespace_end
100% - 30.3s - Finding Issues - CLAS ZCL_ADVENT2020_DAY24_HVAM
16% - 106.7s - Apply Fixes, iteration 5, 22 candidates
```

Running

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