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Subject: : Unsatisfactory Software

Topic: : SAM460 owners - ArcEm OCM benchmarking - please help

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Hello!

I've produced an on-chip memory optimised version of ArcEm. It puts emulated processor registers and various other bits of state information into fast OCM, instead of main RAM.

However, I don't own a SAM460, so I can't test it.

I'm looking for some benchmarks done with each version to check it makes a difference, and to see how much. This might have implications in the future as to whether emulator authors/porters put registers into OCM. I'm hoping this is going to make a noticeable difference, but we'll find out!

You will need:

[onchipmem.resource](#)

[ArcEm full installation package](#)

[ArcEm OCM binary + !SICK \(NB: UPDATED 28/02 20:10 GMT\)](#)

1. Install onchipmem.resource if you haven't already
2. Install the full ArcEm package (don't rely on anything you have installed being the correct version)
3. You'll need the RISC OS ROMs too. [Scroll to the "alternate sources" section of this page](#)
4. Install ArcEm OCM in the same place you installed ArcEm.
5. Run ArcEm\_OCM. In HostFS you should find !SICK. Run this and save the results file somewhere when it is done.  
(btw, the easiest way to quit ArcEm is to press F12 and type **arcem\_shutdown**)
6. Edit ArcEm\_OCM's tooltypes to enable the DISABLEOCM tooltype. **(NEW)**
7. Run ArcEm\_OCM. Run !SICK. Save the results file somewhere.

Paste the two results files here. The "Clock rate" should be the most important bit of data.

Thanks for helping!