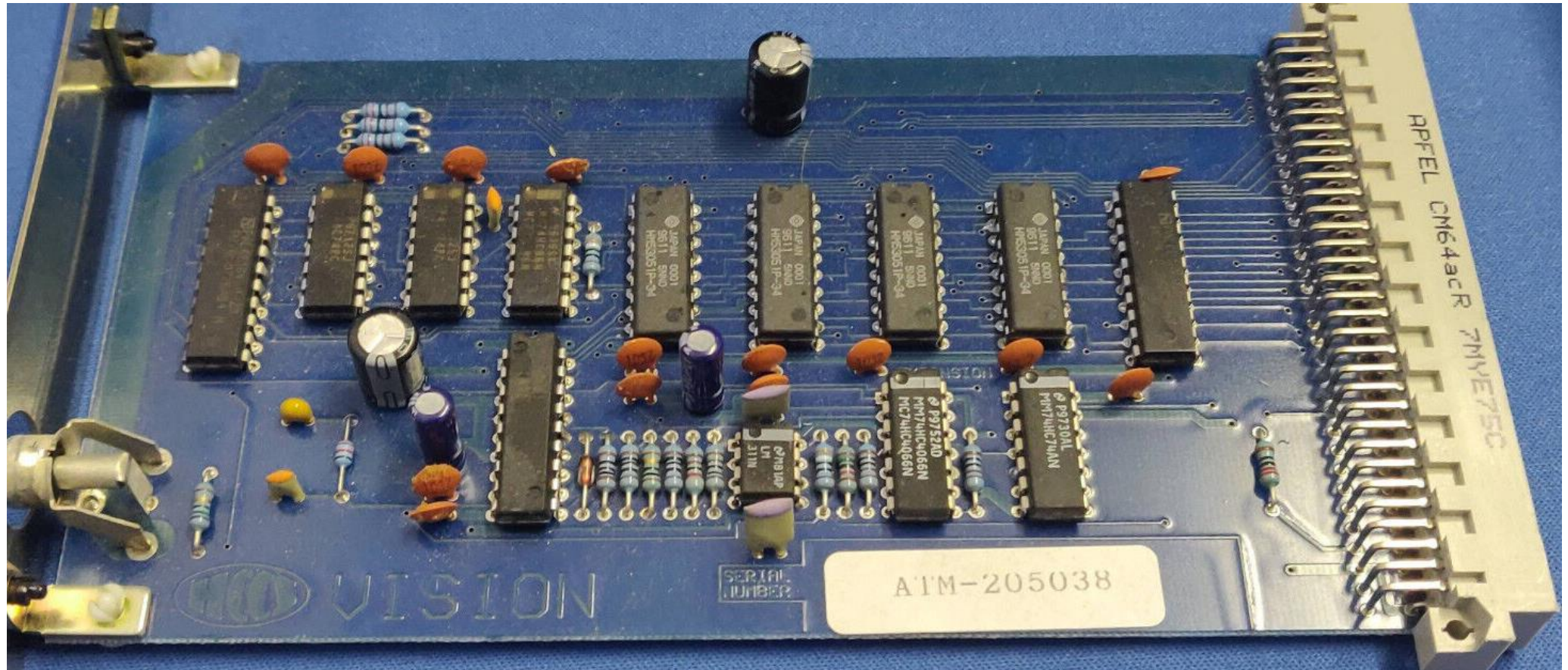




# HCCS and R140

# HCCS



# HCCS

Young guy:

- Wanted to do something with video
- It was relatively cheap at the time
- But how did it work ?.
- Can not find any schematics.
- Some software information here : [HeyRick/BudgieSoft - old source code](#)
- Unfortunately :

I did want to expand this with better quality and colour, however neither HCCS nor the designer ever returned my emails (despite the Vision no longer being in production), and my ability to figure out ARM code was not up to that required to take apart a complex program. So, this is the best we have.

The inner core is properly © HCCS, the rest being my bolt-in. In any case, I don't imagine they'll argue - the code is completely 100% useless if you don't actually *have* an HCCS Digitiser!

Whatever, here's the code:

# HCCS

Now

- Drawing schematics in Draw on an Acorn A5000.
- Yes, I know better draw in it KiCAD or something similar.
- But I did do so often when I was younger... It is a real retro experience.



# R140

A Dutch markt place.

A A540 on sale. But only with 4 Mbyte in and at a price which I did not want to pay for 4 Mbyte.

The seller is member of the Big Ben Club mentioned something about an R140 with an FPU.

I already have an R260 with 16 Mbyte and an R140 with 8 Mbyte and I like the Acorn UNIX machines when I was young these machines were unreachable secondly my knowledge of UNIX is almost NILL so really black art machines for me.

I had a chat with the owner he wanted to know what I want to do with it. I told him get it working and than show at ROX and ABUG-NL he liked that idea so I got it.

# R140



# R140

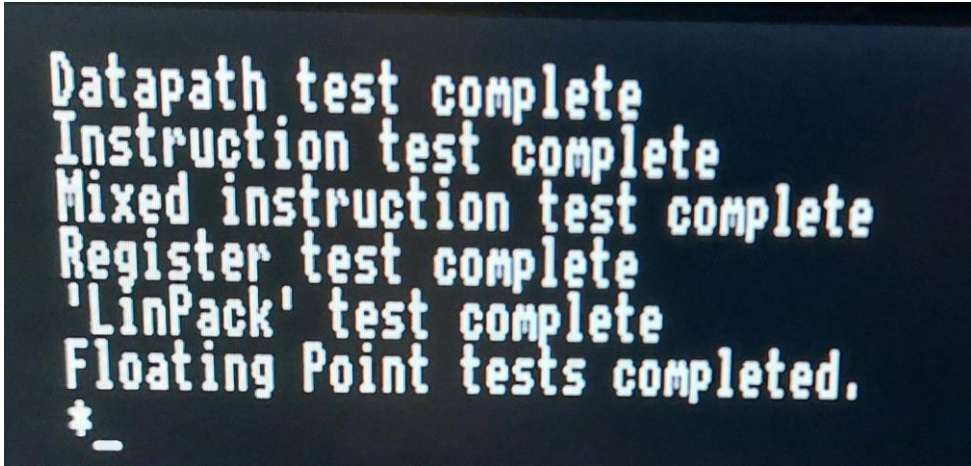
It looks that the hard drive can be getting to turn if there is data on it. I don't know yet.



# R140

To see if it was working is more complicated. Most Archimedes I have contained an ARM3 in one or other form. And the ARM3 does not work with the FPU. Would it work if I turn cache off ?

But I did find a machine where it worked. Yes yes yes. Finally, I can have fast floating-point calculations ;-)



```
Datapath test complete  
Instruction test complete  
Mixed instruction test complete  
Register test complete  
'LinPack' test complete  
Floating Point tests completed.  
*_
```



# R140

The R140 is another issue. It gave an error code ( it has RO 3.1 )with the floppy drive which is very good news that means CPU and IOC are working ;-).

On the stardot I did find the test roms for the Archimedes so I could find the faulty RAM. I just ordered RAM today on ebay so fingers crossed.

```
0123456789012345678901234567890123456789012345678901234567890123456789
A1 DIAGNOSTIC TEST ROMS          MEMORY SIZE = 800100000 BYTES

1. CYCLIC MEMORY TEST WITH PRINTOUT.
2. CYCLIC MEMORY TEST.

SELECT :

CYCLIC MEMORY TEST SELECTED, NO PRINTOUT
AT ADDRESS 802007004  WROTE 855555555  READ 01000101010101010101010101010101
AT ADDRESS 802007008  WROTE 855555555  READ 01000101010101010101010101010101
AT ADDRESS 802007014  WROTE 855555555  READ 01000101010101010101010101010101
AT ADDRESS 802007018  WROTE 855555555  READ 01000101010101010101010101010101
AT ADDRESS 802007024  WROTE 855555555  READ 01000101010101010101010101010101
AT ADDRESS 802007028  WROTE 855555555  READ 01000101010101010101010101010101
AT ADDRESS 802007034  WROTE 855555555  READ 01000101010101010101010101010101
AT ADDRESS 802007038  WROTE 855555555  READ 01000101010101010101010101010101
AT ADDRESS 802007044  WROTE 855555555  READ 01000101010101010101010101010101
                                END OF MEMORY TEST
```