I received a gift today of a couple of very nice boards from a DIGICO Minicomputer (a UK manufacturer in the late 60's and early 70's). I'm not sure

of which model they are from, but I hope to know within a couple of days. Most images can be clicked to get a higher resolution picture

DIGICO Minicomputer - CPU Board and Core Memory

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Author

Deposted: Fri Jan 16, 2009 9:01 pm Post subject: DIGICO Minicomputer - CPU Board and Core Memory

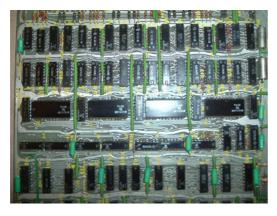
(Q) quote

First up is the CPU Board:

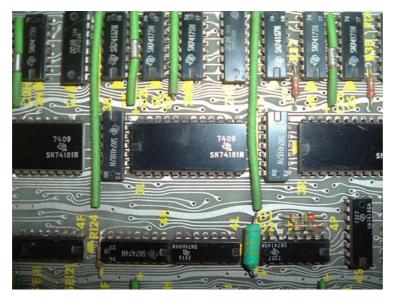
Joined: 18 Jan 2006 Posts: 4552 Location: Planet Debs



A close-up of the 4 ALUs:



And of one of the ALUs, to give more detail:



The core memory is made by Core Memories, Inc. The size it 4K * 16 bits.

The top of the board:

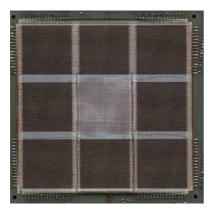
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Bottom of the board:



Close up of the memory area on one side (both sides are the same):

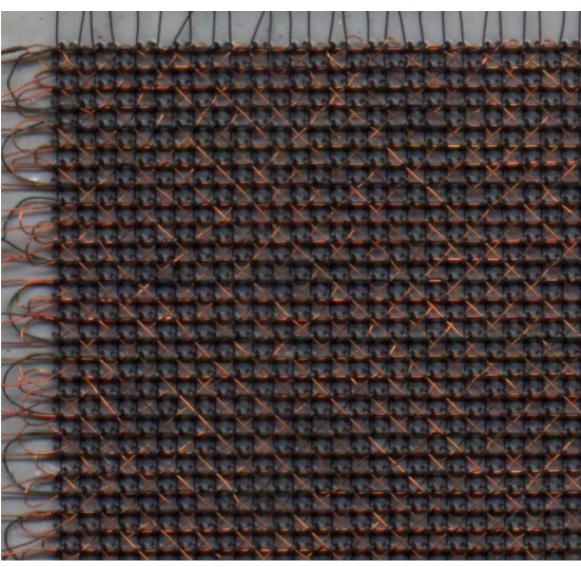


One section of one side:

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A closer look at part of one section of the memory, showing more detail of how it is constructed:



Some cause happiness wherever they go; others, whenever they go.

- Oscar Wilde (1854-1900)





□ Posted: Fri Jan 16, 2009 9:05 pm Post subject:



On the CPU board, many of the capacitors (the green component all over the board...) have deteriorated and some are barely attached to their legs. Can anyone who is more up on different types of capacitor tell me what type they are, so I can repair the board? I will of course be looking for a cheap source for the same type of capacitor next time I can afford to do much buying

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- Oscar Wilde (1854-1900)

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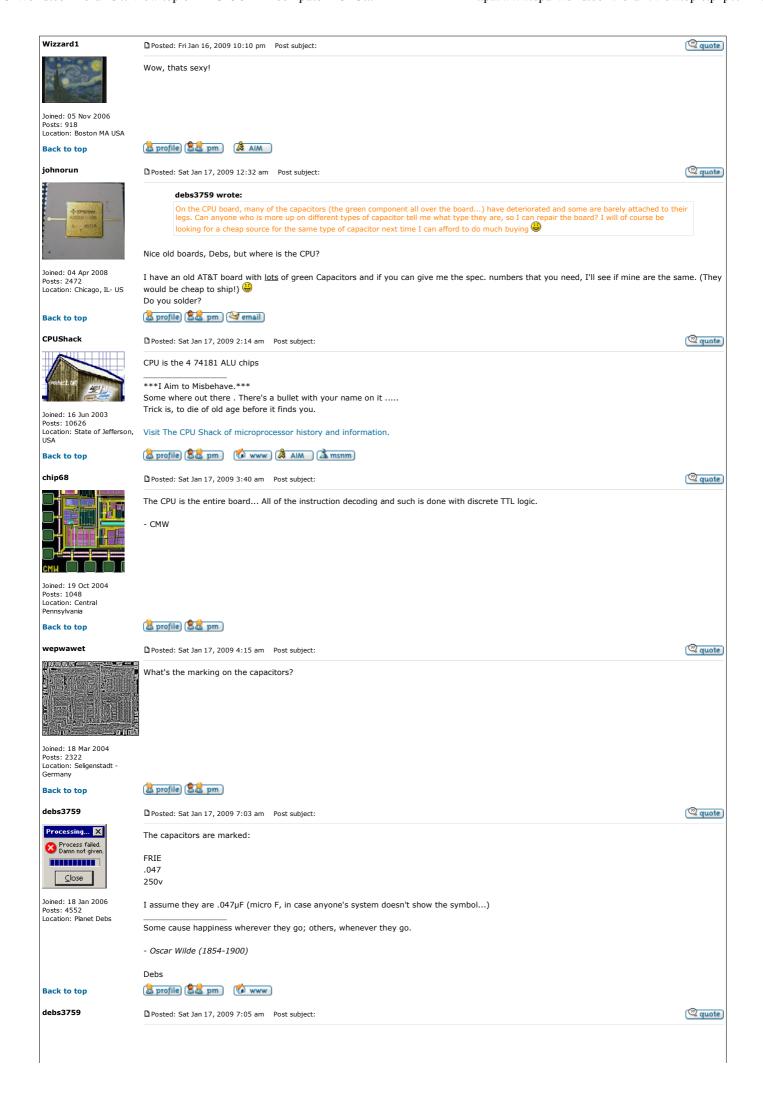
⊆lose

Back to top debs3759

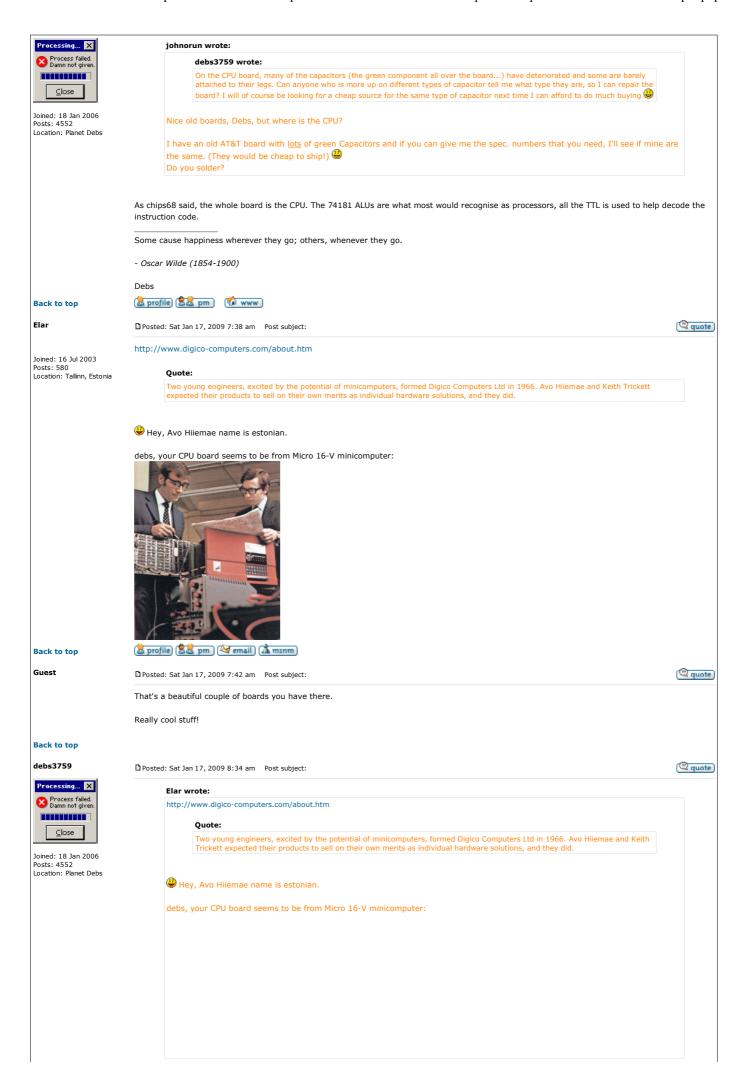
Joined: 18 Jan 2006 Posts: 4552 Location: Planet Debs

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 $\ensuremath{\mathrm{I}}$ did wonder when $\ensuremath{\mathrm{I}}$ looked on that site, but the following quote:

Ouote:

Digico decided to design the 16-V to resist obsolesence, and provide a computer system that would reliably continue its job, for 10 years or more. This was done by using the latest technologies available to them, such as single integrated chip components, and replacing magnetic core memory with semiconductor memory. Resultantly, a British Steel manufacturing plant ordered a £134,000 system from them, to automate

had me wondering. They say they replaced magnetic core memory with semiconductor memory in that model, and this is most definitely core memory. I was told both boards came from the same system...

I actually wondered if it might be a 16-P, although the dates would imply a 16-V. I'm still waiting for the email that will confirm either way.

I'm hoping the site gets updated with some more info soon, but am not going to hold my breath. I understand there are other projects trying to rebuild a 16-V, and I will certainly be in touch with a couple to see what other info I can get (although probably not for a few weeks, knowing how fast I am at doing things!) 😀

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- Oscar Wilde (1854-1900)

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Elar

Deposited: Sat Jan 17, 2009 8:49 am Post subject:



Page 4 in Micro 16V manual says core memory was used: Joined: 16 Jul 2003 Posts: 580 Location: Tallinn, Estonia http://www.digico-computers.com/docs/16VManual.pdf

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debs3759

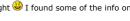
Dosted: Sat Jan 17, 2009 10:17 am Post subject:

sprofile (msnm) (msnm)



Processing... X Process failed
Damn not give ⊆lose

Joined: 18 Jan 2006 Posts: 4552 Location: Planet Debs



I took that to mean the memory at the core of the system, rather than core memory, but I guess you might be right 😃 I found some of the info on the site rather ambiguous...

Either way, I'm pleased with this gift I got 😃

Some cause happiness wherever they go; others, whenever they go.

- Oscar Wilde (1854-1900)

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Posted: Sat Jan 17, 2009 10:41 am Post subject:

(Q) quote



Posts: 1530 Location: Germany Very nice old boards! I'm impressed by the early 181-ALUs made in `74! What's the value of the crystal?

Ordem e Progresso

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