



Computer ♦ Conservation ♦ Society



## & New Year (Mini) Quiz – 2022. With answers

The end of the year has come round again. So soon. After the lock-ins of previous years, I'm sure we were all hoping for a return to comfort and normality only to be hit by insidious inflation.

In Manchester, we didn't manage to organise a face to face meeting in 2022, but the good news is that we now have a number of speakers being lined up for talks every couple of months in 2023.

This year's quiz is much shorter than in previous years, I'm afraid. If anyone would like to help with some new these and ideas in about 11 months' time, please get in touch.

As always, I'll send answers next month and they will also appear on [the CCS web site](#).

Answers are now included below – in red.

Hopefully some of us will get to meet again, face to face, in 2023.

Until then, Good Luck, Merry  and Happy New Year to all.

**Bob Geatrell**

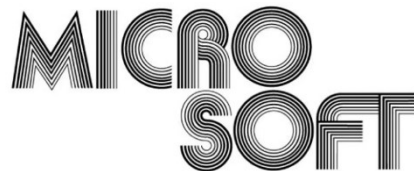
([Bob@Geatrell.co.uk](mailto:Bob@Geatrell.co.uk))

*Chair, CCS NW Group.*

### Christmas Logos

Can you identify the computer company logos that I have borrowed to make up the word above?

Most of them are/were hardware manufacturers, and most of them are American. That wasn't a deliberate decision. It's just the way of the world when I was trying to find clear logos online with the necessary letters.



The ICL logo went through several (similar) iterations. I always preferred the one with the “tango” slash.

Similarly, Microsoft [changed many times](#). This one is a VERY early variant.

And I wasn't surprised to see the level of rigour in the [definition of IBM's 8-bar logo](#).

## A trip to the Science Museum

I've not been out and about to see any museums or collections this year, but I know that the Science Museum Group has a huge [Collection](#). Many of which rarely see the light of day, unfortunately. But fortunately, they have photographed many of them.

Can you identify the following computer related items?

What are they? And can you identify the manufacturer, model, age, etc?

Warning. There is one (intentional) red herring in here [\[the Jacquard punched card\]](#). And a couple of things dear to my heart! [\[SSEM/Baby and the ICL S3L which co-exist on display at the Science and Industry Museum, Manchester\]](#)

I've added a brief description under each item and the photos themselves are clickable links to entries in the SMG collection, if you want a bit more detail. Unfortunately, many of them are rather terse and in need of a few more paragraphs.



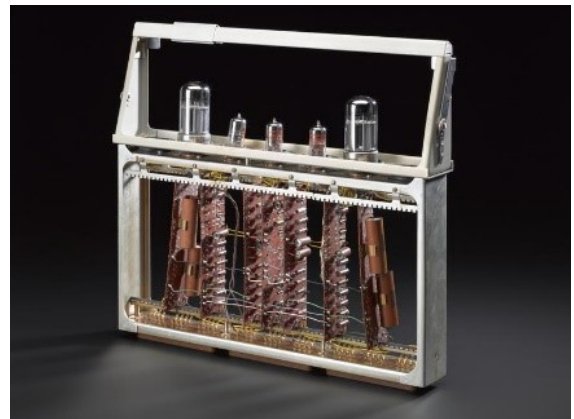
Ferranti Atlas console (from University of London)



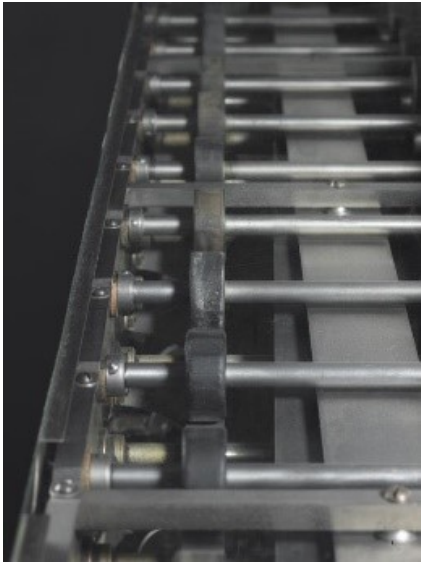
IBM 360/195 console (from Met Office)



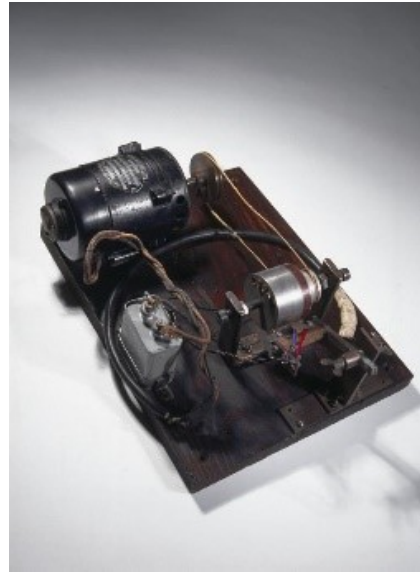
IBM 360/44 Ferrite Core Memory



Unit from SAGE computer (IBM)



Hollerith card sorter (BTM)



Andrew Booth's Experimental Drum Store (c 1946)



Elliott / NRDC 401



KDP 10 ferrite core store



Magnetic Drum from EE Deuce



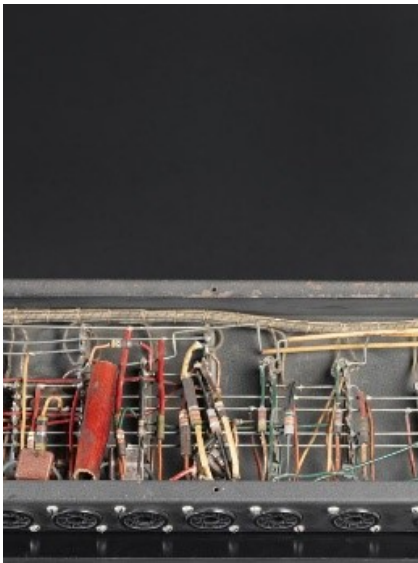
MTWS (Miniature Threaded Wire Store) for TXE4  
phone exchange processor.



Logix computer “toy”



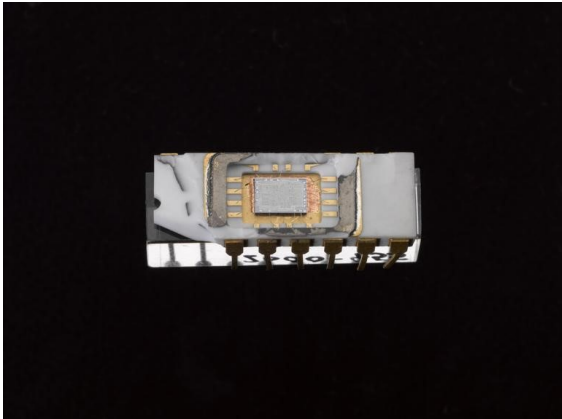
End plate for mercury delay lines. EDSAC 1946->



ENIAC (Receiver unit)



LEO II sub unit.



The start of the modern computer era?  
Intel 4004 processor. which was built for and used  
in, the Busicom 141PF calculator.



Busicom 161 electronic calculator  
I'd thought this was the one built with the 4004  
microprocessor, but I was wrong. Mea culpa!



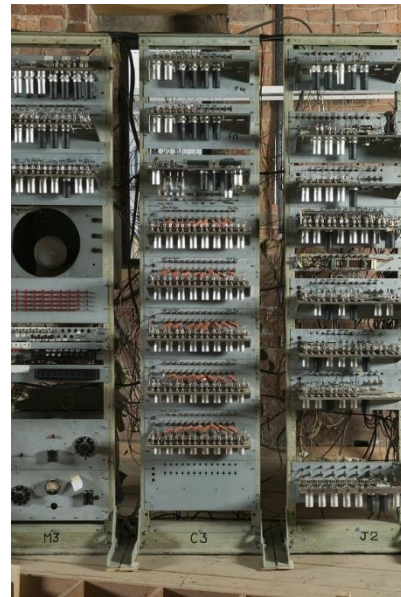
EDS 60Mb Disk Pack (ICL)



IBM 3348 Data Module



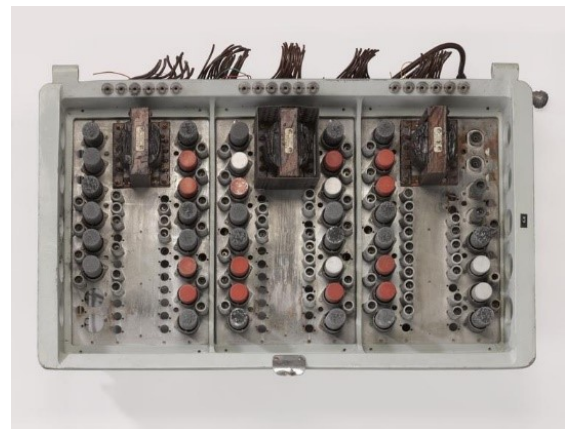
ICL manual 8-hole paper tape punch and splicing guide.  
(The online description mistakenly calls it a card punch)



Replica Manchester Baby/SSEM  
[On show and demonstrated](#) at the Science and Industry Museum



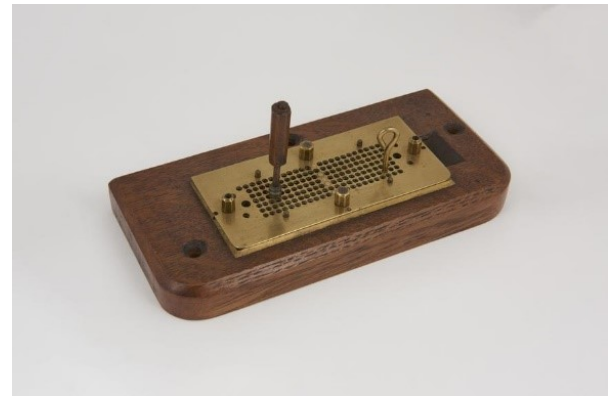
Early Card punch (1920's Powers Samas)



Logic door from a Ferranti Mark I



Print head (ICT type 424 Interpreter) – 1958



Jacquard card hand operated hole punch

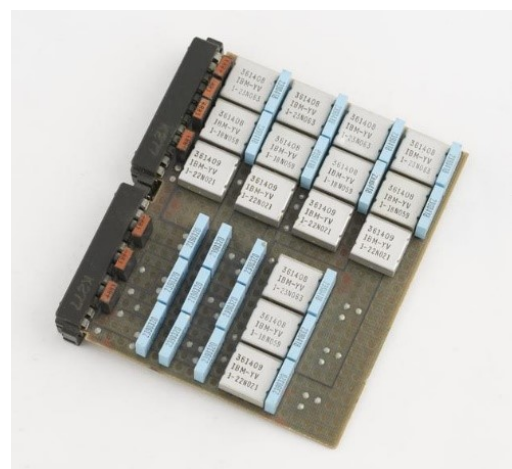
This is the red herring. Or maybe a precursor of what was to follow?



ICT hand card verifier (not punch)



“Long”/folded delay line from EE Deuce.



IBM System 360 Circuit Board



## Apple Newton MessagePad



Elliott G-PAC analogue computer  
(or maybe a bit of Tardis?)



Osborne 1 luggable



ICL Estriel (S3L) processor stack,  
or "cube".  
Currently on display at the SIM,  
which I love as there's a few  
years of my life in that box.