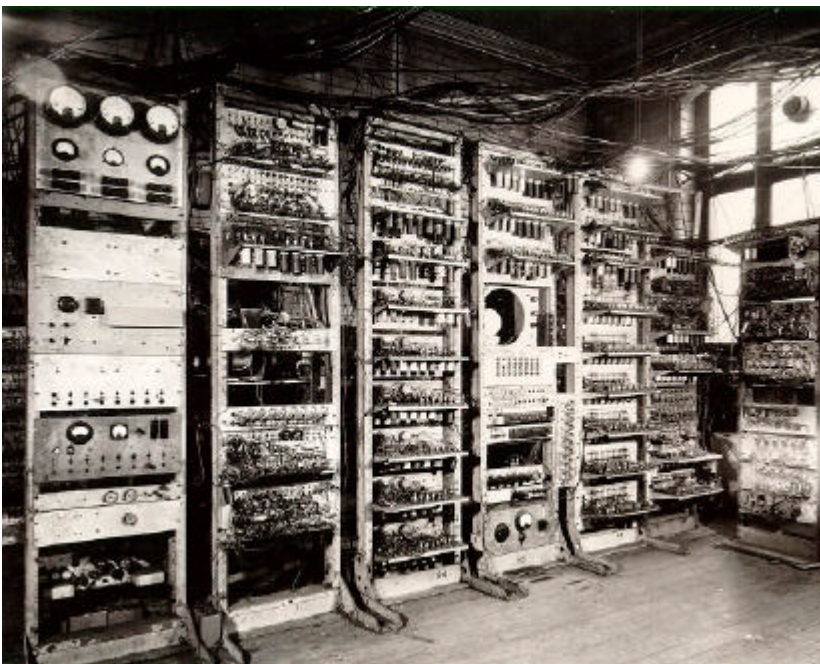


The 'Baby': The World's First Stored-Program Computer

The original computer

The original computer was developed as a research prototype to prove the concept of digital storage using the cathode ray tube (CRT). The people who designed it were Professor Freddie Williams, Tom Kilburn and Geoff Tootill at the University of Manchester. Alec Robinson, Dai Edwards and 'Tommy' Thomas later joined them. The machine ran the world's first stored program at about 11.00 a.m. on Monday 21 June 1948.



Dimensions

Length: 5.23 m (17 ft)

Height: 2.26 m (7 ft 4 in)

Weight: 1 tonne

The computer was subsequently enhanced to include extended CRT storage, drum storage and a multiplier unit. Ferranti Ltd then engineered the design for reliability and production in quantity, and delivered the Mark 1 Computer to the University of Manchester in February 1951.

The replica 'Baby'

The replica was built to mirror the state of the original as it was on 21 June 1948. The goal was to run the replica on the 50th anniversary of the first stored program. This was achieved before a distinguished audience at 11.15 a.m. on Sunday 21 June 1998.

A team of enthusiastic volunteers, led by Chris Burton, rebuilt the machine. Although the prototype no longer existed, the team gleaned invaluable information from Dai Edward's lab notebook, Alec Robinson's photographs and the personal recollections of Tom Kilburn and Geoff Tootill. The rebuild was sponsored by ICL Ltd, and supported by the University of Manchester and the Museum of Science and Industry in Manchester. People who had retired from the industry kindly donated many components.

