

**(a). Partial listing of NCR/Elliott 4120 computers and ARCH 2020 Industrial Control Systems, as at the end of 1966.**

<i>DATE</i>	<i>CUSTOMER</i>	<i>APPLICATION (* = on line)</i>
1965	G. Maunsell & Partners	Civil engineering calculations
	Elliott-Automation Ltd.	Research & testing peripherals & production tech.
	Elliott-Automation Ltd.	Training maintenance engineers
	Elliott-Automation Ltd.	Software development
	British Telecommunications Research	Research in telecommunications
	Aircraft Research Association	Research & design calculations
1966	British Coal Utilisation Research Association	Combustion research
	British Scientific Instrument Research Association	Operational research
	Shoe & Allied Trades Research Association	Production planning, research
	Signals Research & Development Establishment	Satellite communications
	Univ. of Edinburgh (Dept. of Machine Intelligence & Perception)	* Advanced programming research (Inter-active)
	Dundee Technical College	Research & teaching
	Northern Polytechnic	Teaching & research
	An NCR Customer	Accounts & statistics of telegraph messages
	National Physical Laboratory	* Study of 'conversational' programming
	Elliott-Automation Ltd.	* Training simulator research
	An NCR Customer	Research in nuclear physics
	An NCR Customer	Stock control & victualling
	British Hovercraft Corporation	Hovercraft design & research
	Fisons Fertilisers Ltd.	Simulation & linear programming
	British Petroleum Ltd.	Research
	Humphreys & Glasgow Ltd.	Calculations for chemical, mech. & civil engineering
	NCR Elliott Computer Workshops Ltd.	Bureau service
	NCR	Systems development
	An NCR Customer	Service bureau
	Racal Electronics Ltd.	General electronics research
	An NCR Customer	Investment & securities records. General accounting
	Imperial Tobacco Co.	Research statistics
	2 computers: Ministry of Aviation	* Message switching
	An NCR Customer	Ministry accounting & administration
	NCR Service bureau.	Applications development
	An NCR Customer	Production control
	An NCR Customer	Stock control & customer invoicing
	Schwedt Oil Refinery (German Dem. Rep.)	* Refinery control res. (Vehicle mounted system)
	Elliott-Automation Ltd.	Research & testing peripherals & prod. techniques
	Ministry of Electrical Power (Rumania)	Electrical network calculations
	Australian Sales Research Bureau Ltd. (Australia)	Market research
	Undisclosed (Hungary)	Undisclosed
	Elliott-Automation Ltd.	Software development

ON ORDER, as at end-1966:

An NCR Customer	Accounting
An NCR Customer	Civil engineering calculations
An NCR Customer	Accounting & statistics
A Public Utility	* Distribution control system
Ministry of Defence	* Naval training simulator

Munich City Council (Federal German Rep.)	* Second system in road traffic control hierarchy
Elliott-Automation Ltd.	Computing service
A Public Utility	* Integrated telemetry & control system
Imperial Smelting Corporation	* Control of zinc smelting plant
An NCR Customer	Spare parts control
NCR	Service bureau & inventory control
An NCR Customer	Local authority applications
NCR	Service bureau
An NCR Customer	Financial
An NCR Customer	Stores control
An NCR Customer	General accounting
An NCR Customer	Accounting & statistics
An NCR Customer	General accounting, stock evaluating etc.
An NCR Customer	Customers orders, stock records & forecasting
An NCR Customer	Accounting
An NCR Customer	Invoicing, sales ledger
An NCR Customer	Accounting & statistical analysis
An NCR Customer	Co-ordination of sales & production
An NCR Customer	Accounting
An NCR Customer	Accounting
An NCR Customer	Stamp redemption accounting at branch level
A Training College	Teaching & research
Ove Arup & Partners Consulting Engineers	Design calcs., structural anal., q'tity surveying etc
Kingston College of Technology	General research, teaching, business studies
Aberdeen University (Dept. of Natural Philosophy)	* Study of human concept formation processes
Robert Gordon's Colleges	Research & teaching
U.K.A.E.A.-Springfield	Undisclosed
British Paper & Board Industries Res. Assoc.	Data analysis & linear prog. on paper trim problems
Hunting Engineering Ltd.	Project planning
Motor Industries Research Association	Structural analysis and analysis of wind tunnel tests
Barking College of Technology	Teaching & education
British Electric Transformer Co. Ltd.	Design, production & organisation control
An NCR Customer	Analysis of record returns from farmers
An NCR Customer	Circulation & advertising statistics
An NCR Customer	Deposit & loan accounting

\* = on line.

*Summary of NCR/Elliott 4120 computers and ARCH 2020 Industrial Control Systems, up to the end of 1966:*

delivered:	40
on order:	40
total:	80

**(b). Partial listing of NCR/Elliott 4130 computers on order, as at the end of 1966.**

<i>DATE</i>	<i>CUSTOMER</i>	<i>APPLICATION</i>
1966	Sussex University (Dept. of Exp'l. Psychology)	* Study of animal behaviour
	Csepel (Hungary)	Data processing & production control
	Keele University	Speech analysis & human response studies
	Aberystwyth University	Research & teaching
	Warwick University	Research & teaching
	York University	Administration, teaching & research
	Reading University	Research & teaching
	Bangor University	Research & teaching
	Kent University	Numerical analysis

Queen's College, Dundee  
Elliott-Automation Ltd.  
National Research Inst. for Computer  
Techniques & Automation (Czechoslovakia)  
NCR  
An NCR Customer  
An NCR Customer  
An NCR Customer  
Elliott-Automation Ltd.  
Cambridge University  
Leicester University  
Royal Observatory (Edinburgh)

\* Multi-access computing system  
Project control management information  
Commercial & scientific data processing  
Bureau & sales calculations  
Research into computing science  
Stock information & vehicle scheduling  
Undisclosed  
Customer demonstration & software development  
\* Hybrid system for research into process control.  
Advanced research in teaching, space research  
\* Control of telescopes & photographic instruments

\* = on line.

*Summary. Number of NCR/Elliott 4130 computers on order, at the end of 1966: 20.*

The above information comes from pages 18 – 20 of the booklet:

**Elliott-Automation: computer orders and deliveries, 1947 – 1966.** Published by the Directorate of Information Services, Elliott-Automation Ltd., 21 Portland Place, London W1. (Date of publication not given, but deduced as being early in 1967).