

Version 1: 9th February 2016.**Catalogue UK, for box-files UK1 – UK10.**

Scope: The hardware, software and applications of UK computer manufacturers except for Elliott and Ferranti (which are catalogued separately). Also, computing surveys, early computer conferences, etc. Specifically:

- UK1 – UK4: UK manufacturers including English Electric, Leo Computers, BTM, ICT, ICL, EMI, AEI/Metrovic, STC, Decca, Marconi. (Covers the period 1947 – 1974).
- UK4: Early British research computers, including TREAC, ICCE, MOSAIC.
- UK5 – UK6: General computer history: computer surveys, delivery information and statistical information. (Covers the period 1947 – 1999).
- UK7: The Conference of Professors & Heads of Computing's *Computer Science Directory*, 7th edition (1997).
- UK8 – UK9: Historic computer conference proceedings, symposia, etc. (1947 – 1953).
- UK10: Computer applications, general and particular, 1953 - 1973. Also, Obituaries and biographical notes of computing pioneers born in the period 1897 – 1940. (Note: entries for Manchester people such as Brooker, Edwards, Kilburn, Sumner, Williams, etc. are in the 'Manchester' set of box-files, particularly MA4, MA5, E1).

Box-files UK1, UK2: English Electric and Pilot ACE.

Box	Date	Title	Description/comments
UK1	1977	The other Turing machine. B E Carpenter & R W Doron.	Photocopy of a paper that appeared in <i>Computer Journal</i> , vol. 20, no. 3, 1977, pages 269 – 279. (This paper analyses Turing's 1945 Report and compares it with the 1945 EDVAC Report.
UK1	1948	(Pilot) ACE Test Assembly, general logic diagram.	A3 photocopy of an original drawing produced by David Clayden, Electronics Section, NPL, 1 st December 1948.
UK1	1953	The Pilot ACE. J H Wilkinson.	Photocopy of the paper that appeared in the Proc. Symposium of Automatic Digital Computers, NPL, 1953.
UK1	1969	'Pilot ACE made history for the NPL in the former butler's pantry'. M Woodger.	Photocopy of an illustrated article that appeared in <i>Computer Weekly</i> , April 19 th 1969.
UK1	1975	The Pilot ACE at the National Physical Laboratory. J H Wilkinson.	Photocopy of an article that appeared in <i>The Radio and Electronic Engineer</i> , Vol. 45, No. 7, July 1975, pages 336 – 340.
UK1	1984	From ACE to the G-15. Harry D Huskey.	Photocopy of an article that appeared in <i>Annals of the History of Computing</i> , vol. 6, no. 4, October 1984, pages 350 – 371.
UK1	1950	2 photos of the Pilot ACE at NPL	Two b/w glossy prints, each 7" x 8.5", showing: (i) overall computer, no people; (ii) closer view with three people (probably Jim Wilkinson on the right and Ted Newman in

			the middle.
UK1	1958	The history and present use of digital computers at the National Physical Laboratory. M Woodger.	Photocopy of the article that appeared in <i>Process Control and Automation</i> , November 1958, pages 437 – 442.
UK1	1956; 1958	Notes on the NPL Pilot ACE and the origins of the English Electric DEUCE.	(a). The ACE, by E A Newman & D O Clayden. IEE Convention on digital computer techniques, 11 th April 1956. (b). Extract from <i>The history and present use of digital computers at the National Physical Laboratory</i> . <i>Process Control and Automation</i> , Nov. 1958, pp. 438 – 443.
UK1	5 th Jan. 1955	Programming manual for DEUCE (first issue). G M Davis.	48-page foolscap typed manual, English Electric Report number NS y 12, of which 16 copies were produced. This is copy 10.
UK1	22 nd July 1955	12-page foolscap typed specification of DEUCE.	Contains a covering letter from C B Chedzoy to B S Kellett, T I Group Services Ltd., Birmingham.
UK1	c. 1955	Digital computer type DEUCE, digital electronic universal computing engine.	16 page illustrated glossy brochure, EE publication ES/122. On the cover is a handwritten note by Harry Carpenter dated 1/12/15, saying: £42,000 including Hollerith. Delivery 7 months (J Boothroyd).
UK1	c. 1956	Collection of 12 b/w glossy photos of a DEUCE installation and its component parts.	These are a set of 12 b/w prints, each 7.5" x 9" and each with a caption, issued by the Publicity Department, English Electric, Stafford. This collection formerly in the possession of Professor D B G Edwards.
UK1	1956	DEUCE: a high-speed general-purpose computer. A C D Haley.	Proc. IEE Vol. 103, Part B, Supplement 2, pages 165 – 173.
UK1	c. 1956	DEUCE programming manual.	Dark blue leather-effect plastic cover, with clip-in binding. Eight sections, approximately 65 pages in all.
UK2	April 1959	Programming manual for the computer DEUCE. RAE Farnborough, Tech Note MS38. D G Burnett-Hall & P A Samet.	Buff- bound foolscap typed document, approximately 200 pages. This manual given to SHL by John Coales, November 1999.
UK2	c. 1995 & 2007.	Notes on probable deliveries of EE DEUCE	Four pages of notes, provenance Keith Titmuss, Kohn Barrett, Jeremy Walker & David Leigh. (For a corrected list, see the <i>Our Computer Heritage</i> website.
UK2	1999	P J Walker's notes on KDF 6, KDF7, KDF8 and KDP10.	Jeremy Walker retired from ICL Kidsgrove in 1991. He worked on the KDP10 at English Electric Kidsgrove in 1961.
UK2	1999	George Vale's notes on KDN2, KDF7 and M2140.	George was involved in the specification of the M2140, a 16-bit process control computer whose design was begun in about 1966. GEC scrapped the project in 1966 although by then 'quite a number had been sold' and installations continued up to about 1973.
UK2	c. 1959	KDP10: a decisive advance in automatic data	6 page illustrated glossy brochure, EE publication ES/202.

		processing.	
UK2	c. 1961	KDF9: very high speed data processing system for commerce, industry, science.	30 page illustrated glossy brochure, EE publication DP/103. Also, a photocopy of this.
UK2	c. 1965	KDF9 programming manual	Undated publication 1002mm/1000166, produced by English Electric-Leo-Marconi. Donated by Patrick Reid.
UK2	c. 1965	KDF9 Algol programming	Undated publication 1003mm/300167, produced by English Electric-Leo-Marconi. Donated by Patrick Reid.
UK2	c. 1969	KDF9 Algol.	Undated publication, sub-titled Algol programming for KDF9. Published by ICL. Donated by David Sweetman.
UK2	c. 1961	KDP10, KDF9, KDN2 Data Systems and services.	16 page illustrated glossy brochure, EE publication DP/105. Includes an inserted 8-sheet example of a Lineprinter output.
UK2	1965	Stacks. Michael Weatherfield	4-page article reprinted from <i>Encyclopaedia of Linguistics, Information & Control</i> , published by Pergamon Press. Describes the philosophy of the KDF9.
UK2	1999	KDF9 notes from Michael Weatherfield, former English Electric staff	Retrospective letters, e-mails and documents sent to SHL, describing the origins and development of the KDF9 computer, 1959 – 1964.
UK2	1999	KDF9 notes from George Davis, former English Electric staff	Retrospective e-mails sent to SHL, describing the origins and development of the KDF9 computer
UK2	1999	KDF9 notes from Cliff Robinson, former English Electric staff	Retrospective one-page document sent to SHL, describing the origins and development of the KDF9 computer and commenting on Mike Weatherfield's notes.
UK2	2003	KDN2 and KDF6 note from Roger Morton, former programmer of EE computers.	E-mail giving KDN2's word length as 24 bits (not 16 bits) & similar to KDF6.
UK2	2008	DEUCE (UTECOM)	Letter from Keith Titmuss (Australia) introducing his archival interest in the hardware of the DEUCE computer (called UTECOM) installed in 1956 at New South Wales Institute of Technology. See also: http://members.dodo.com.au/~robin51/deuce.htm

Box file UK3, part 1 of 2. Leo.

Box	Date	Title	Description/comments
UK3	1954	Lyons Electronic Office: How LEO works. Frank G Casey.	LEO I. Four-page glossy reprint of an article reprinted from <i>Business: the Journal of Management in Industry</i> , April 1954.
UK3	c. 1954	General photo of the LEO I installation	Glossy b/w print, 6.5" x 9".
UK3	c. 1954	Photo of LEO I console	Glossy b/w print, 6" x 9".
UK3	June 1957	Specimen week of LEO operation (w/e 27/1/57).	LEO I. Three-page analysis of jobs run during this week. Produced by LEO Computers Ltd.

UK3	June 1957	General details of LEO II.	Single-page specification of clock-rate, storage-size, price, etc. Produced by LEO Computers Ltd.
UK3	c. 1957	LEO II	Four-page illustrated glossy leaflet giving an overview of LEO II. Produced by LEO Computers Ltd.
UK3	March 1953	Operating and engineering experience gained with LEO. J M M Pinkerton.	LEO I. Proc. NPL Symposium on Automatic Computation, paper 3 (pages 21 – 32).
UK3	1954	LEO (Lyons Electronic Office). J M M Pinkerton & E J Kaye.	LEO I. Paper in <i>Electronic Engineering</i> , vol. 29 or 29?, July 1954 pages 284 – 291.
UK3	1962	Fundamental principles of expressing a procedure for a computer application. T R Thompson.	Probably LEO II. Reprinted from <i>The Computer Journal</i> , vol. 5, No. 3, November 1962. (6 pages). Defines the CLEO language.
UK3	1975	Performance problems with LEO I. J M M Pinkerton.	LEO I. Published in <i>The Radio & Electronic Engineer</i> , vol. 45, No. 8, August 1975, pages 411 – 414.
UK3	1956	Memo from G F Corbin (Chairman, Domestic Administration Committee, Metal Box Co.) on Automation.	6 typed foolscap pages, being a report of a Conference on Automation sponsored by the College of Production Technology. Two pages describe LEO, followed by a further page outlining how LEO might be useful to the Metal Box Co. Document donated by ray Henville, Nov. 2009.
UK3	1957	Report on LEO Programming Course, 7/1/1957 to 8/2/1957.	Nine-page typed quarto report, describing the history of LEO, its applications, and a list of the tasks currently (1956/7) carried out by LEO at Lyons.
UK3	c. 1960	Original engineering drawings.	LEO II or LEO III. Three circuit diagrams of power supplies. Leo Computers Ltd.
UK3	c. 1963	LEO III data processing system.	Photocopy of a pamphlet (six folded pages covering two A4 sides) giving technical details. Publication DP/202, English Electric – LEO Computers Ltd.
UK3	c. 1965	Lector document reader.	Photocopy of a two-page pamphlet giving technical details of the reader. Publication DP/204, English Electric – LEO Computers Ltd.
UK3	April 1961	The evolution of design in a series of computers: LEO I – III. J M M Pinkerton.	Photocopy of <i>The Computer Journal</i> , vol. 4, No. 1, April 1961, pages 42 – 46.
UK3	1990	Taming Leo – overcoming the inherent unreliability of Leo I. J M M Pinkerton.	Article in <i>IEE Review</i> , January 1991, pages 13 – 17.

UK3	Sept. 2001	Putting computers to work. David Caminer.	Retrospective LEO I – II article in <i>IEE Review</i> , Sept. 2001, pages 27 – 29.
UK3	June 2001	John Pinkerton and Lyons Electronic Office. M V Wilkes.	LEO I – III article in <i>Computing & Control Engineering Journal</i> , June 2001, pages 138 – 144.
UK3	Dec. 2002	LEO and the computer revolution. David T Caminer.	LEO I – III article in <i>Computing & Control Engineering Journal</i> , Dec. 2002, pages 273 – 280.
UK3	2003	Behind the curtain at LEO: a personal reminiscence. David T Caminer.	Article in <i>IEEE Annals of the History of Computing</i> , vol. 25, April/June 2003, pages 3 – 13.
UK3	June 1987	List of papers about LEO Mark I, Mark II and Mark II.	Three typed A4 pages, containing details of 27 publications. Produced for Gwen Bell of The Boston Computer Museum. By J M M Pinkerton.
UK3	2002	Record of LEO II and LEO III installations.	Print-out of www.leo-computers.org.uk/ on 2/12/2002.
UK3	2001	Anecdotes of LEO I and II. Colin Tully.	E-mail sent to SHL on 24/1/2001. Contains interesting timing information on the Lyons payroll job on LEO I.
UK3	1987/88	The early history of LEO: the first data processing computer. John M M Pinkerton.	5-page Abstract of a talk given at The Computer Museum on 4 th October 1987. Printed from the web version of The Computer Museum Report, vol. 21, winter 1987/88.
UK3	2002	Early history of J Lyons & Co.	E-mail to SHL from Peter Bird, 13/4/2002.
UK3	Nov. 2001	50 th anniversary of LEO I's first program.	Various articles, posters and pamphlets associated with the celebrations in the Guildhall, London, on 5 th & 6 th November 2001.
UK3	Feb. 2004	50 th anniversary of the Lyons 'Bakeries' job going live on LEO I – (and the first payroll).	Various papers and posters associated with the celebrations in February 2004 at the Science Museum, South Kensington.

Box file UK3, part 2 of 2: BTM/ICT/ICL.

Box	Date	Title	Description/comments
UK3	c. 1947	Proposals for the establishment of a centre for the construction and use of an electronic computer. A D Booth.	Photocopy of a 6-page application for a research grant of £11,200. Document F12/48. Donated by Dr Roger Johnson, 27/6/2011.
UK3	2003	Birkbeck family of computers. Roger Johnson.	9-page typed document. Includes a descriptive list of A D Booth's computers and a comprehensive list of related publications.
UK3	1979	An evaluation of the	Photocopy of a 17-page internal Report of the

		ARC project. S H Lavington.	Department of Computer Science, University of Manchester. The purpose of the report, a copy of which was sent to A D Booth for comment, was to investigate the degree to which Booth's ARC project could be classed as a fully-operational stored-program computer.
UK3	Sept. 1954	HEC general purpose electronic computer: advance information.	20-page illustrated glossy brochure. Published by The British Tabulating Machine Co. Ltd. Document ref. 15c,558.
UK3	Jan. 1956	Planned production control.	36-page illustrated booklet. Published by BTM. Document ref. 5m/5510/FP/RF/7 59. Mostly refers to electro-mechanical punched card equipment but mentions HEC. Comes with a covering letter dated 18 th January 1956.
UK3	1956	The HEC computer. R Bird.	Photocopy of an article appearing in Proc. IEE, vol. 103, part B 1-3, 1956, pages 207 – 216. A second copy.
UK3	1999	Collection of notes and articles on HEC, from Brian Dagnall (who worked for R L Michaelson at BTM).	Contains: (a) Brian's covering letter; (b) short article from <i>Computing Europe</i> on R L Michaelson, with (superimposed) a photocopy of a photo of HEC2M taken in January 1955; (c) one-page article from vol. 2, no. 1 of an internal BTM document dated about mid-1953; (d) two pages (headed 'Achievement') from a booklet prepared for the 1954 Business Efficiency Exhibition in Manchester; (e) four pages from the <i>Tabulator</i> no. 88, 1955; (f) two pages from the same booklet, describing the Fawley Refinery application; (g) a two-page hand-out describing the bridge-bidding demonstration at the 1954 Business Efficiency Exhibition, together with a specimen punched playing card; (h) covering reply-letter from HL.
UK3	1999	Collection of personal and technical notes on HEC2M (and DEUCE), from David Hanley.	23 typed pages; including notes on the characteristics, performance and applications of HEC2M together with some Birkbeck and Booth pre-history. Also, an e-mail exchange between David Hanley and SHL.
UK3	1969	HEC cut the cost of commercial computing. Raymond Bird.	Photocopy of an article appearing in <i>Computer Weekly</i> , 5 th June 1969.
UK3	c. 1999	Collection of notes from Hamish Carmichael on early BTM calculators.	Two e-mails and a one-page extract from the ICT House Magazine no. 45, December 1962, all on the subject of BTM's fore-runners of true stored-program computers. Mentioned are the: EMP, PCC, types 541, 542, 550, 555, and the 558 (FCC).

UK3	Dec. 2003	List of ICT 1201 computers delivered in the period 1956 – 1958.	Single page – (may have been more pages?).
UK3	Oct. 2012	Newspaper article about the restored ICT 1301 computer in Kent.	Page 29 of the Sun. Short article and several photos. Mentions Rod brown and Roger Holmes.
UK3	March 1965.	ICT 1900 series: PLAN instruction reference card.	Two-sided, stiff-card foolscap size. Form 11/129 (1.67).
UK3	c. 1966	Example of 1905F log, using multiplexor.	Folded length of console teletype output (about 1.5metres long) showing operator's logging information with explanatory hand-annotations. Also, a single sheet of hand-written notes.
UK3	c. 1966	Hand-annotated console output and lineprinter listing.	Possibly from the same computer as above. The sequence seems to show the utilisation and storage report for an Exchangeable Disc Store cartridge.
UK3	c. 1966	Two decks of punched cards.	One deck has about 12 cards, the other about 30 cards. They possibly refer to the above 1905F computer.
UK3	c. 1964	1900 codes.	Single foolscap sheet with tables of character codes (paper tape, cards).
UK3	(1950s)	5-bit code.	Single foolscap sheet with a table of 5-track teletype character codes.
UK3	c. 1966	List of some 1900 library programs	Single foolscap sheet giving <name>, <description>, <entry-points>, <resources required>, etc. for 17 library programs. Included is the PLAN compiler and a Cobol compiler.
UK3	c. 1966	Description of #QMCN library program	Single typed quarto sheet.
UK3	c. 1966	Update [PROGRAM SUBS] using #XPMU	Single typed quarto sheet, giving the operating instructions for this program. Sheet headed CAMMELL Laird M4070; A J R Walker given as author.
UK3	c. 1966	SCAN utility programs	Small piece of paper with typed information about [magnetic tape?] library programs X41A, etc..
UK3	April 1968	Lineprinter control loops.	Single typed foolscap sheet giving description, hardware requirements, operating instructions, etc. for punching a loop of paper tape for controlling a lineprinter for 11" or 12" stationery. A length of 5-track paper tape is also included.
UK3		EDS initiator: provisional issue	Two typed A4 sheets giving program description, operating instructions, error messages, etc., for this EDS library program.
UK3	Feb.	Operating instructions	Three typed foolscap sheets giving the

	1968	for A.D.D. GEORGE ONE jobs.	Operating System commands and messages associated with various regular operator activities.
UK3	March 1967	Accumulated deliveries of ICT 1900 Series.	Photocopy of a single A4 sheet giving (a) deliveries at year-ending 1964, 1965, 1966 and then to 15/2/67; (b) first deliveries by type of machine (eg 1901, 1902, etc.). This document was produced by D A Birkett, ICT Company Information Officer, on 6/3/67. It is archived at the Science Museum Document centre as ref. COM/1993/1440.
UK3	Nov. 1966	(a) Notes on some important events; (b) ICT computers in use at November 1966 excluding all the 1900 Series; (c) covering letter.	Each of these three items is a single A4 typed sheet but the sheets were originally stapled together. The first item, which gives dates of significance to ICT, contains some historical errors. The second item might possibly be correct but there are doubts, eg, about the number of Ferranti Mark I's still working. The covering letter is dated 8/12/66. The three items are archived at the Science Museum Document Centre as ref. COM/1993/1446.
UK3	1974	3 photos of an ICL 2980 installation.	Glossy b/w photos: (a) close-up of the operating console, with explanation on the back; dated October 1974; (b) overall view showing peripheral equipment; (c) a free-standing display, with explanation on the back; dated October 1974.

Box file UK4, part 1 of 5: EMI.

Box	Date	Title	Description/comments
UK4	1958	A case study in commercial data processing. D S Greensmith & J G Thompson.	Photocopy of an article that appeared in <i>The Computer Bulletin</i> , June/July 1958, pages 12 – 15. Discusses the data-processing requirements of Boots Pure Drug Co. Ltd. and the choice of an EMIDEC 1100 to meet these requirements. Gives figures.
UK4	1959	A transistorized magnetic core store. D Bray & A C Conway.	Published in Proc. IEE, Vol. 106, Part B, 1956. (6 pages). Bray and Conway worked for EMI.
UK4	c. 1960	Emidec 2400 data processing system. General description.	Photocopy of an 8-page A4 printed technical brochure. EMI publication ES17/1046/5M/360/BP.
UK4	1969	EMIDEC 2400s are still giving sterling service. Keith Crook.	Photocopy of an illustrated article that appeared in <i>Computer Weekly</i> , 1 st May 1969
UK4	c. 1974	2 photos (3 copies each) of the EMI speech recognition system VIP100.	The Voice Information Processor VIP100 is capable of accepting a vocabulary of up to 150 words. Press release explanation on rear of two of the b/w glossy photos.

Box file UK4, part 2 of 5: AEI and METROVIC.

Box	Date	Title	Description/comments.
UK4	c. 1957	The METROVIC 950	Photocopy of a 17-page illustrated technical brochure, published by Metropolitan-Vickers Electrical Co. Ltd., Trafford Park, Manchester 17. Document 3000/8/57, Form 1515 superseding Form 1157, SP.7655/1.
UK4	c. 1960	Inbuilt capacity for growth	Four-page general pamphlet describing the AEI 1010. No document reference number.
UK4	1999, 2000	David Edwards' (from Devizes, not D B G Edwards!) notes on the AEI 1010.	Edwards spent from 1961 – 67 programming an AEI 1010. He gives three A4 typed pages of notes about the machine.

Box file UK4, part 3 of 5: STC.

Box	Date	Title	Description/comments.
UK4	1999	Historical notes from Don Hunter, concerning STEP 1, STANTEC 1 and STANTEC ZEBRA.	Print-out of an e-mail and 15-page paper describing Standard Telephones Electronic Processor no. 1 (STEP 1), installed in 1956. Its name was changed to STANTEC1 and in 1959 it was replaced by the ZEBRA computer.
UK4	c. 1958	Stantec Zebra electronic computer	Single-page illustrated advertisement from The Computer Bulletin.
UK4	c. 1959	Stantec Zebra electronic digital computer.	Photocopy of a 12-page illustrated technical brochure, published by STC's Information Processing Division, Newport, Monmouthshire.
UK4	2001	Tony Davie's comments on Stantec Zebra.	Print-out of an e-mail dated 24/1/2001, describing some details of the Stantec Zebra.

Box file UK4, part 4 of 5: DECCA.

Box	Date	Title	Description/comments.
UK4	c. 1961	The Decca Digital Data Processor for real-time processing.	Six-page illustrated brochure. Published by Decca Radar Ltd.; ref. number ZW267/1M/9.61
UK4	c. 1961	Computer magnetic tape unit Decca type 4000.	Six-page illustrated brochure. Published by Decca Radar Ltd.; ref. number ZW261/3M/9.61
UK4	c. 1958	Photos and brief background to a Decca computer.	Photocopies of three photos that appeared in the book <i>Electronic computers: principles and applications</i> by T E Ivall (published for Wireless World by Iliffe, London, 1956. Accompanying e-mails from John Deane and Peter Lawrence suggest that the computer shown might be the Decca C1 or C2 computer.

Box file UK4, part 5 of 5: Marconi. TREAC, ICCE, MOSAIC.

Box	Date	Title	Description/comments.
UK4	March 1964	General description of TAC.	Photocopy of pages 3 – 18 of Marconi TAC manual T5533, part 1, Section 2, Chapter 1 followed by Chapter 11 pages 18 - 26.
UK4	March 1964	TAC SR00 – 3301: TAC functional block diagram.	This is Figure 101 from the above manual, covering the equivalent of three A4 pages pasted together.
UK4	July 2007	Letter from John Blackburn.	Three-page covering technical letter, sent to SHL to accompany the above two items. John Blackburn got a TAC system working at The National Museum of Computing, Bletchley Park.
UK4	July 2007	CD of 29 photos of the TAC system at TNMOC, Bletchley Park.	
UK4	May 2004	E-mail from Arthur Young to John Blackburn	Arthur Young worked at Marconi and in 1958 was in charge of Marconi's tender to win the Fur Hat air defence project that resulted in TAC. This e-mail gives a fascinating account of the origins and development of TAC.
UK4	1949-1953	Three documents on TREAC	a). Discussion of plans, projects and general ideas. Preliminary plans for the TRE Electronic Digital Computer. A M Ulltey, pages 123 – 126 of 1949 Cambridge Conference. (b) The TRE high-speed digital computer. R H A Carter. NPL Symposium, 1953, pages 56 – 64. (c). The telecommunications Research Establishment parallel electronic digital computer. Chapter 10 (pages 144 – 160) in <i>Faster than Thought</i> , B V Bowden, Pitman, 1953.
UK4	1953	ICCE (Imperial College Computing Engine)	The design requirements of a low-cost computing machine. K D Tocher. NPL Symposium, 1953, pages 280 – 283.
UK4	1953-1956	Six documents on MOSAIC	(a) – (e): Mosaic: an electronic digital computer. Allen W M Coombs, parts 1, 2, 3a, 3b, 4. All in the Post Office EE Journal, Vol 48, pages 114, 137, 212, July & October 1955, January 1956; Vol. 49, pages 18, 126, April & July 1956. (f). MOSAIC: the Ministry of Supply automatic computer. A W M Coombs. NPL Symposium, 1953, pages 38 – 42.

Files UK5, UK6: General historical computing background: computer surveys, delivery information and statistical data.

Box	Date	Title	Description/comments
UK5	1947	Calculating machines: recent & prospective developments. D R Hartree.	Photocopy of a 40-page booklet, being Hartree's Inaugural Lecture at the University of Cambridge, 1947. Published in booklet form by Cambridge University Press.
UK5	1949 - 1950	Digital computer newsletter. Published by the Office of Naval Research, mathematical Sciences division.	Photocopies of extracts from various editions, including: (a). Vol. 1, No. 1, 21 st April 1949; (b). Vol. 1, No. 2, 1 st Sept. 1949; (c). Vol. 2, No. 1, 1 st January 1950; (b). Vol. 2, No. 2, 1 st May 1950; (c). Vol. 2, No. 3, 1 st August 1950. These newsletters review progress on computer projects – mostly in the USA but a few UK projects.
UK5	Feb. 1951	Notes on status of digital computer development.	This is a copy of a 7-page typewritten report. The report's author (said to be 'Dr Frankel) visited Harvard (Mark I – Mark IV); ISM (SSEC), Bell Tel Labs, Bureau of Standards (SEAC), Eckert-Mauchley (UNIVAC), Ferranti Ltd's New York Office, IAS Princeton (IAS), Los Alamos (MANIAC), Raytheon (Hurricane), NYU (NYU-NDA).
UK5	May 1952	A symposium on commercially available general-purpose electronic digital computers of moderate price. The Pentagon, Washington.	Scan of a 30-page document. Describes seven American computers (JAINCOMP-B1, MONROBOT, CADAC, the Circle computer, ELECOM 100, Model 30-201 and the MINIAC. The Symposium was sponsored by the Navy Mathematical Computing Advisory Panel, Department of the Navy, Office of Naval Research.
UK5	1953	A survey of automatic digital computers. Office of Naval Research, Washington, DC.	109-page report. Describes about 90 computers or companies world-wide, with the majority being located in the USA.
UK5	Oct. 1957	Comparative data on machines available in the United Kingdom for clerical users.	Photocopy of an article that appeared in <i>The Computer Bulletin</i> , October 1957, pages 88 – 107 and pages 109 & 115.
UK5	1958	'Where Angles fear to tread'; 'Twelve years on'.	Photocopy of two single-page editorials from the <i>Computer Bulletin</i> , the first dated Feb/March 1958 (page 159) and the second dated April/May 1958 (page 179). Together, they give figures of installed computers and other computer-related statistics, comparing the UK with the USA.

UK5	1959	Ten years of computer development. The Earl of Halsbury.	Photocopy of an article that appeared in the <i>Computer Journal</i> , Vol. 1, issue 4, January 1959. (This paper was presented to a BCS meeting in London on 16th October 1985). (See also Halsbury's 1997 video, below).
UK5	1960	A survey of European digital computers. J L F De Kerf.	Photocopy of an article that appeared in <i>Computers and Automation</i> , Feb/April 1960.
UK5	June 1962	Computer Survey (a quarterly publication covering the British electronic digital computer industry).	Photocopy of Vol. 1, No. 1, June 1962. Approx. 50 pages.
UK5	1966; 1967	Company presentation: early computers. D A Birkett, ICT Company Information Officer.	Photocopy of a 4-page typed memorandum, consisting of listings and notes on the deliveries of ICT-related computers. The memorandum's front-page date is 8 th December 1966; the fourth back page was evidently issued later, and has the date 6 th March 1967. Covers EMIDEC 1100 & 2400; Ferranti Mark I, Mercury, Pegasus, Sirius, Orion, Atlas; ICT 1200 series, 1300 series, 1500 series; 1900 series. There is a page of 'important historical events', covering the period 1947 – 1964. Of the other ICT people mentioned in this document, Cedric Dickens is believed to have been a Public Relations person and 'JL' is John Lidell, the manager for the central computer allocations unit at ICT Putney at the time. The document was photocopied from the Science Museum's Document Archive, catalogue number COM/1993/1446.
UK5	1966	Changes in computer performance: a historical view. Kenneth E Knight	Photocopy of an article that appeared in <i>Datamation</i> , Vol. 12, No. 9, September 1966, pages 40 – 54. Includes a list of 225 American computers, covering the period 1944 – 1963, each with some performance figures.
UK5	1968	Evolving computer performance, 1963 – 1967. K E Knight.	Photocopy of an article that appeared in <i>Datamation</i> , Vol. 14. No. 1, January 1968. Also, 3 sheets of graphs by Jonathan Aylen using figures derived from the above two papers. Also, one Table, derived by Jonathan Aylen, showing numbers of computers installed in the USA in 1965 by manufacturer, and process control computers world-wide in 1965 by manufacturer.
UK5	1970	Computer Survey,	16 pages of extracts from Computer Survey,

		extracts.	Vol. 9, No. 6, November/December 1970. Extracted by Richard Burwood, who focussed on entries relating to various Elliott computers (eg 402, 405,803, 502, 503, 902, 920, 4100 series, and Elliott ARCH Series).
UK5	c. 1975	History of Computers. A time-line of computer development, 1940 – 1967. Issued as a wall chart by the Science Museum.	B/W A3 photocopy (in two overlapping sections) of the coloured chart, which follows UK and US manufacturers' time-lines and the flow of influence between developments. Issued in about 1975.
UK6	1957	A summary of the activities of the National Research Development Corporation in connection with electronic computer development.	NRDC, Computer Sub-Committee, Paper number 132; author: H J Crawley. 42 pages. Deals with NRDC's interactions with computer manufacturing companies, users, applications, patenting, etc.
UK6	1982	The development of computer programming in Britain (1945 to 1955). M Campbell-Kelly.	Photocopy of a paper published in <i>Annals of the History of Computing</i> , Vol. 4, No. 2, April 1982, pages 121 – 139.
UK6	1990	A perspective on computer progress in the last five years. M V Wilkes.	Article published in <i>Computing & Control Engineering Journal</i> , Sept. 1990, pages 201 – 208.
UK6	1994	Radar and the early history of computers. J M Bennett.	Photocopy of a 12-page typed article. There is a letter at the end from Alison Steer, daughter of John Coales, from which it is deduced that John Bennett may have written the paper for Coales. Gives a number of interesting insights – for example into the difference between longitudinal and torsional waves in nickel delay lines.
UK6	1997	Lord Halsbury's speech on the NRDC. Issued by the British technology Group (BTG).	Video-tape (PAL format) – 52 minutes' duration. (See also Lord Halsbury's 1959 paper, above). Also included are some hand-written notes, taken by SHL when viewing the video.
UK6	. 1997	BTG: the inside story.	Promotional video issued by the British Technology Group. (Details not precisely known).
UK6	1999	Inflation: the value of the pound, 1750 – 1998. House of commons Research paper 99/20. Robert Twigger.	Photocopy (9 pages) of extracts of a 20-page document, giving year-on-year changes. Also includes three graphs showing changes.
UK6	1999	Comprehensive Computer Catalogue: December 1997 update.	5-page print-out giving a history and current status of this listing of (at that time) 4335 computers. Includes e-mail from Chris Burton, adding some background information.

UK7 (lever Arch File).	1997	Computer Science Directory, 7 th edition.	This publication of the Conference of Professors and Heads of Computing (CPHC) lists information on all UK University Departments of Computer Science. It includes names & qualifications of staff, courses offered, areas of research being pursued, numbers of students and contact-details.
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File UK8, UK9: Historic computer conference proceedings, symposia, etc.

Box	Date	Title	Description/comments.
UK8	1947	Proceedings of a symposium on large-scale digital calculating machinery. The Computation Laboratory, Harvard University, 7 th – 10 th January 1947.	Photocopies of the contents pages and 4 selected articles: ENIAC (by Tabor, 2 copies), ENIAC (by Mauchley), MIT, EDVAC & memory transfer.
UK8	1949	Proceedings of a second symposium on large-scale digital calculating machinery. The Computation Laboratory, Harvard University, 13 th – 16 th September 1949.	Photocopies of the contents pages and 8 selected articles: Eckert's CRT, MIT, Raytheon, General Electric, Bill Elliott, Zephyr, Selectron, the future.
UK8	1949	Report of a conference on high speed calculating-machines. University Mathematical Laboratory, Cambridge, 22 nd – 25 th June 1949.	The report, published in January 1950, has about 150 pages. This copy belonged to one of the delegates, H G Carpenter.
UK8	1951	Manchester University Computer: inaugural conference, July 1951	The original of this document is in the Manchester section of the catalogue, in box-file MA2a. This present item is a print-out of 21 pages from a scan of the original document. This 21-page extract comprises the contents page, 5 of the papers (by Williams & Kilburn, Turing, Newman, Wilkes and Robinson) and the attendance list.
UK8	1951	Review of electronic digital computers: joint AIEE-IRE Computer Conference, Philadelphia, 10 th to 12 th December 1951.	Photocopy of the whole Proceedings (114 pages).
UK8	1952	Proceedings of the Association for Computing Machinery (ACM) meeting at Toronto, Sept. 8 th – 10 th 1952.	Approx. 160 pages. This copy belonged to H G Carpenter.
UK9	1953	Symposium on automatic	This is a folder containing the papers as

		digital computation. National Physical Laboratory, March 1953.	presented at the symposium. This collection belonged to H G Carpenter, who attended the Symposium.
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UK10: applications; obituaries.

Box	Date	Title	Description/comments
UK10	1953	Monte Carlo methods for the iteration of linear operators. J H Curtiss.	National Bureau of Standards report 2365, 19 th March 1953. 46 pages. Includes an e-mail from John Ford (Essex University) dated 4/4/2000, listing the 10 algorithms of greatest influence on science & engineering; the Metropolis algorithm for Monte Carlo is the earliest in the list.
UK10	1956	Wage accounting by electronic computer.	National Physical Laboratory, report number 1 of the inter-departmental study group on the application of computer techniques to clerical work. Published by DSIR & HMSO. 58-page booklet.
UK10	1956	Electronic computers as tools for management.	7-page foolscap typed report on a visit to the USA by H W Gearing (of the Computing Division, Metal Box Co.) from 19 th Feb. to 6 th April 1956. This report dated 25 th May 1956.
UK10	1965	The management of a large commercial computer bureau. J W Lewis.	Reprint of a paper published in <i>Computer Journal</i> , Vol. 7, No. 4, January 1965, pages 255 – 261. Based on experience with LEO III in the bureau of EELM Computers.
UK10	1968	IFIP Congress Edinburgh 1968, booklet F: Applications 1.	112-page booklet, containing 24 papers on the theme of Application.
UK10	1973	Notes for visitors: the Metal Box Co., Computer Services Division, Woodside, Worcester.	6-page typed hand-out produced by H W Gearing. Contains sections on equipment, software, operations, applications and references. Includes data and statistics relevant to the period 1965 – 73, covering an ICT 1904A and an Orion.
UK10		Obituaries, group (a). Surnames A – H. (Note: for T Kilburn, see 'Manchester' box-files).	John Bennett, David Caminer, Edsger Dijkstra, Jack Good, Brian Flowers, Douglas Hartree, John Holmes, Peter Hunt
UK10		Obituaries, group (b). Surnames I – Z. (Note: for F C Williams, see 'Manchester' box-files).	Colin Merton, Nicholas Metropolis, Robin Milner, Roger Needham, Charles Owen, Tony Sale, Christopher Strachey (in Martin Campbell-Kelly's 1985 Annals paper), Bernard Swann, Maurice Wilkes.