CLASSIFIED INDEX
OF
FERRANTI COMPUTER LITERATURE

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List CS 300
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INTRODUCTION

Ferranti Ltd., manufacture a large range of electronic digital computers, and many documents are written for each. A brief summary is given below with the object of enabling the reader to select the particular computer and its associated documents that are most applicable to his interests.

Computers

Mark 1 and 1*  A medium speed computer no longer in production.

Pegasus 1 and 2:  A medium sized general purpose computer. Full data-processing facilities are available.

Mercury:  Fast computer mainly for scientific and engineering computations.

Perseus:  A large computer designed for data-processing.

Sirius:  A small sized medium speed general purpose computer. Fully transistorised.

Orion:  A large, fast, data-processing system for technical and commercial computations. Fully transistorised.

Argus:  A fast medium sized computer designed for process control applications. Fully transistorised.

Atlas:  An extremely large and fast system for both technical calculations and data-processing. Fully transistorised.

Documents

These are in two series: The DC List series which consists largely of printed treatises on the computers, equipment and systems. The CS List series which consists essentially of working documents, mostly in duplicated form, giving instructions, examples etc., in the use of the computers to particular problems, applications etc., including Programming Manuals, and Programming Exercises.

Library Service

Library Services are available for Pegasus, Mercury and Sirius, of Library Specifications, which are descriptions of each programme or subroutine, what it does and how to use it.

Library Programmes are also available (for Pegasus only) which are descriptions of the method used by the subroutine or programme and give the actual instructions obeyed by the computer with full explanatory notes.

For full details see CS 223D.

Reprints

These are given as references to important articles that have appeared in the technical press or journals.
FOREWORD

This document is issued to promulgate information about the following documents, which have been added since the previous 'Classified Index' (CS 291) was printed.

CS 294  "Punched Tape Codes"
CS 295  "Process Control Equipment"
CS 296  "Orion: Two sample complete programs"
CS 297  "Orion: Sorting Times"
CS 298  "Atlas: Magnetic Tape"

dc 44  "A description of the Ferranti Pegasus 2 computer"

r 41  "Considerations in choosing a character code for computers and punched tapes"
     By H. McG. Ross
     From Computer Journal

r 42  "Administering 625,000 industrial life insurance policies"
     From Data Processing. Jan/March 1961

     "An assembly program for a phrase structure language"
     By R.A. Brooker and D. Morris

r 43  "Some proposals for the realization of a certain assembly program"
     By R.A. Brooker and D. Morris

     "Running Pegasus Autocode programs on Mercury"
     By A. Gibbons
     From Data Processing. 1961

r 44  "Process control by computer"
     By R.A. Morley and M.B. Wood
     From Control. May/June 1960

r 45  "Programming digital computers for process control"
     By T.H. Gosling
     From Control. October 1960

r 46  "The application of computers to process control"
     From Control. June 1960

r 47  "A description of Mercury Autocode in terms of a phrase structure"
     From Automatic Review in Automatic Programming. Vol. 2

r 48  "Ferranti Argus plant control computer"
     From Process Control & Automation. March 1961

r 49  "A bank adopts automatic data processing"
     By R. Hindle
     From Computer Journal. Vol. 3
R 50  "Computers in Britain"
     By Mr. S. de Ferranti

R 51  "The simulation of the Orion time-sharing system on Sirius"
     By H.P. Goodman
     From Computer Journal

R 52  "Organisation of a computer service for industry and commerce"
     By A.R. Bagshaw
     From Computer Journal

R 53  "The use of Pegasus Autocode in some experimental business
     applications of computers"
     By
     From Computer Journal

R 54  "Shell roof programs for Ferranti Mercury computers"
     By J. Gibson
     From Civil Engineering & Public Works Review. July/August 1961

Each of the above documents is also shown in its appropriate section
of the Classified Index which follows.

Note:
R 51 to R 54 may not be available till about September 1961.
CLASSIFIED INDEX OF COMPUTER LITERATURE

The following documents are issued by the Computer Sales Department and copies may be obtained from either the London Computer Centre or the West Gorton works.

It should be mentioned that all the documents other than the Reprints are Copyright, and in view of the facilities available for obtaining them in quantity, none may be reproduced in whole or in part without the prior written permission of Ferranti Ltd.

CLASSIFICATION

1. Documents describing machines and equipment.
2. Miscellaneous.
3. Performance tests and operating instructions.
4. Instructional documents.
5. Libraries.
6. Applications and Demonstrations.

Note:

Although it is our normal practice to supply these documents free of charge, we regret that we are not always able to do this where large quantities are involved, or where the total cost is substantial.
1.1 DOCUMENTS DESCRIBING MACHINES AND EQUIPMENT

1.1 General

DC 3A Ferranti high-speed tape readers.
DC 12A The Ferranti tape spooler.
DC 27 Tape editing equipment.
DC 31 Tape handling accessories.
DC 33 Ferranti transistorised tape reader TR5.
DC 37 Ferranti magnetic drum.
CS 229A Questions and answers on the Ferranti high-speed paper tape reader TR7.
CS 238 The transactor data transmission equipment.
CS 248 The Ferranti/Creed model 75 teleprinter.
CS 295 Process control equipment.
FC 1 Ferranti printed circuits.

R 15 "Heavy duty printed circuits"
By W.G. Roberts of Ferranti,

R 27 "Programming strategy for protection against computer and operator errors"
By P.M. Hunt of Ferranti,

R 35 "How a computer works"
By B.E. Swain of Ferranti,

R 41 "Considerations in choosing a character code for computers and punched tapes"
By H. J.R.C. Ross of Ferranti,
From Computer Journal.

R 42 "Administering 525,000 industrial life insurance policies"

R 43 "Ferranti Argus plant control computer"
1.2 Pegasus Computer

DC 10B Description of the computer with magnetic tape equipment.
DC 44 Description of the Ferranti Pegasus 2 computer system.
CS 114B The main and ancillary equipment of a complete installation.
CS 119B Questions and answers. Also in German.
CS 147A Converter with magnetic tape, punched card, and printer equipment.
CS 156 Multi-punch output.
CS 175 Package component test set.
CS 245 Users' specification of Pegasus 2.
CS 262 How to use the Transactor attached to Pegasus.

1.3 Mercury Computer

DC 30A Description of the computer with ancillary equipment.
CS 120B Questions and answers. Also in German.
CS 164 The main and ancillary equipment of a complete installation.
CS 246 Multiple INPUT/OUTPUT facilities.
CS 251 Punched card INPUT/OUTPUT and Line Printer.

1.4 Perseus Computer

DC 35 An introduction to the computer.
CS 143A Questions and answers. Also in German.
R 21 "The Ferranti Perseus data-processing system"
By P.M. Hunt of Ferranti,

1.5 Argus Computer

DC 390 Process control transistor computer.
1.6 **Sirius Computer**
DC 42A An introduction to the Ferranti Sirius computer.
DC 43A The advantages of Sirius.
CS 235 Questions and answers.
CS 239 The field of application.
R 31 "The Sirius computer"
By A.R. Wilde of Ferranti,
From *The Ferranti Journal* 1960

1.7 **Orion Computer**
DC 40 The Ferranti Orion System. Also in German.
DC 41 The Ferranti Orion computer system.
Also in French and German.
CS 264E The Ferranti Orion computer system.
CS 289 The magnetic tape system.
R 32 "ORION"
From *Data-Processing*. April/June 1960.

1.8 **Atlas Computer**
CS 250B A brief description of Atlas.
CS 272B Features of the Ferranti Atlas Computer.
R 33 "Atlas - a new concept in large computer design"
By Dr. S. Gill of Ferranti,
From Commun. of Ass. for Computer Machinery.
June 1960.
MISCELLANEOUS

DC 36A General computer catalogue.

CS 105 Computer reading list.

CS 155A Notes on the preparation of CS Lists.

CS 234 Interchangeability and compatibility of magnetic tapes.

CS 266 Punched card codes.

CS 286 List of Ferranti computer installations. (Confidential)

R 40 "An assembly program for a phrase structure language"
   By R.A. Brooker and D. Morris of Manchester University,

R 38 "Assembly, interpretive, and conversion program for Pegasus"
   By G.E. Felton of Ferranti,
   Bound with:

R 43 "Operational experience with the Pegasus Autocode"
   By W.F.M. Payne of Ferranti,

R 43 "An Assembly program for a phrase structure language"
   By R.A. Brooker and D. Morris

R 43 "Some proposals for the realization of a certain assembly
   program"
   By R.A. Brooker and D. Morris

R 50 "Computers in Britain"
   By Mr. S. de Ferranti

R 51 "The simulation of the Orion time-sharing system on Sirius"
   By H.P. Goodman of Ferranti,
   From Computer Journal

R 52 "Organisation of a computer service for industry and commerce"
   By A.R. Bagshaw of Ferranti,
   From Computer Journal
3. PERFORMANCE TESTS AND OPERATING INSTRUCTIONS

3.1 General

CS 108 Performance test for full set of tape editing equipment.

CS 121 Operating instructions for full set of tape editing equipment.

CS 145 Operating instructions for simplified tape editing equipment.

CS 151 Performance tests for simplified tape editing equipment.

CS 233 Operating instructions for using Electrodata magnetic tape mechanisms.

CS 260 Operating instructions for standard tape editing equipment with model 73 teleprinter.

CS 271 Operating instructions for the teletype punch.

3.2 Mercury Computer

CS 176 Performance tests.

3.3 Pegasus Computer

CS 115 Performance tests.

CS 227 Performance tests for magnetic tape equipment.
4. INSTRUCTIONAL DOCUMENTS

4.1 General
CS 237 Linear programming on Ferranti Pegasus & Mercury computers.
CS 294 Punched tape codes.

4.2 Mark 1

4.3 Pegasus Computer
CS 56A Programming examples using the Matrix Interpretive Scheme.
CS 74 Interpolation Routines.
CS 75F Index to the Library Specifications.
CS 104 Some common errors in programming and tape punching.
CS 127 Changes in the Initial Orders.
CS 135 Matrix Interpretive Scheme. Also in German.
CS 141B Summarised programming information.
CS 142 An example of the integration of ordinary differential equations.
CS 152 A guide to the timing of programs.
CS 153 A simple program - "Special factorize"
CS 185 Examples of complete problems for programms.
CS 190 Error stops in the Initial Orders.
CS 195 Programming with magnetic tape equipment.
CS 204 Programming examples.
CS 206C Programs available in the interchange scheme.
CS 217A Pegasus Autocode.
CS 226A Autocode instructions.
CS 243 Stops in the Library.
CS 254  Dealing with magnetic tape failures.
CS 256  Blank 2-block programming sheets.
        In pads of 100 sheets.
CS 257  Blank 4-block programming sheets.
        In pads of 100 sheets.
CS 258  Blank 6-block programming sheets.
        In pads of 100 sheets.
CS 265  Programming with 7168 word store.
CS 267  Tape code conversion.
CS 269  1960 Library Tapes.
R  53  "The use of Pegasus Autocode in some experimental business
       applications of computers"
       By
       From Computer Journal.

Mercury Computer
CS 124  Tape code.
CS 158  Programming manual.
CS 188  Internal function codes.
CS 192  Operating instructions.
CS 202A Quicky Specifications.
CS 209  Mercury: Allocation of routine numbers and form of
       specifications for Mercury Library.
CS 218A Programs available on the interchange scheme.
CS 219  Additional programming examples with solutions.
CS 224  Examples of complete problems for programming.
CS 225A Programmers' Handbook.
CS 241  Introduction to the Mercury Autocode.
CS 242A Manchester Mercury Autocode System.
CS 270  Autocode examples.
R  17  "An input routine and further Autocode facilities
       for Ferranti Mercury Computer"
       By J.A. Fotheringham and M. de V. Roberts of Ferranti,
       From Computer Journal.
R 18 "The Autocode programs developed for the Manchester University computer"
    By R.A. Brooker of Manchester University,
    From Computer Journal. 1959

R 47 "A description of Mercury Autocode in terms of a phrase structure"

4.5 Perseus Computer
CS 177 Programming examples and solutions.
CS 181 Programming manual.
CS 197 Summarised programming information.
CS 198 Computers and card codes.

4.6 Orion Computer
CS 275 Introduction to NEBULA.
    (Chapter 1 and 2 and example 1 of List CS 282).
CS 279A The built-in program.
CS 280 Blank programming sheets. Type 'A'
    In pads of 100 sheets.
CS 281 Blank programming sheets. Type 'B'
    In pads of 100 sheets.
CS 282 NEBULA (Programming Manual).
    (Natural Electronic Business Language).
CS 283A NEBULA programming examples.
CS 284 Nebula - Summarised procedure description.
CS 288A Programming exercises.
CS 290 Description of card readers, card punches and line printers.
CS 296 Orion: Two sample complete programmes.
CS 297 Orion sorting times.
4.7  **Sirius Computer**
CS 244  Programming manual.
CS 253  Elementary programming exercises.
CS 274  Sirius Autocode.
CS 278  The Sirius order-code described in **plain language**.

4.8  **Atlas Computer**
CS 298  Atlas: Magnetic tape.
5. **LIBRARY SERVICES**

CS 223D The Library Services describes the services available; the fees charged; and how to join.

5.1 The following Library Services are available. The fee for the 'Initial collected set' covers enrollment in the Service, the supply of one collected set of all current Library Specifications (or Programs) published to date, and the supply of any additions or amendments published during the ensuing twelve months. Further sets are at a reduced fee as the subscriber has already enrolled. For full details see CS 223D.

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5.2 Four sets of Library Specifications and one set of Library Programmes are supplied, free of charge, with every Ferranti computer for which they exist. Renewal fees are not applicable to these sets which are kept up to date free of charge. (i.e. an Owner is made an Honourary Member of the Service)

An Owner who wishes to have more sets than the above Free Issue may subscribe for them in the normal way set out above.

5.3 CS 240 Mercury Annotated Input Routine. Price: 36/- each.

A copy of this document is supplied with every Mercury Computer. It is of use only on this computer.
6. APPLICATIONS AND DEMONSTRATIONS

6.1 General

CS 84A Sorting on an electronic digital computer.

CS 106 Some statistical work on Ferranti digital computers.

R 26 "The use of computers for optimal planning"
   By C.M. Berners-Lee of Ferranti,
   From British Communications and Electronics. November 1959.

R 4 "The electronic digital computer in aircraft structural analysis"
   By P.H. Hunt of Ferranti,

R 34 "Current accounts on a computer"

R 36 "Management accounting by digital computer"

R 37 "Digital computers as design aids for electrical engineers"
   By H. McG. Ross of Ferranti,

R 39 "The use of electronic computers in the insurance world"
   By S. Benjamin of Ferranti,
   From the Ferranti Journal.

R 44 "Process control by computer"
   From Control. May/June 1960.

R 45 "Programming digital computers for process control"
   From Control. October 1960.

R 46 "The application of computers to process control"
   From Control. June 1960.

R 49 "A bank adopts automatic data processing"

6.2 Pegasus Computer

CS 57 A program for the evaluation of flutter coefficients.

CS 60 A demonstration program for the evaluations of the first 1000 decimal places of e.

CS 130 A demonstration program for the resolution of integers into prime factors.
The solution of simultaneous linear algebraic equations.

Blank data sheets for simultaneous linear equations.

Specification and operating instructions for simultaneous linear equations.

A factorial analysis program.

Two latent roots program.

Description of a program for optical ray tracing.

Data-sheets for meridional ray tracing.

A fourier analysis program.

Date preparation and operating instructions for a Fourier analysis program.

Normal modes for aircraft frames.

Linear programming (Scope of SIMFIX).

Linear programming - Data preparation and operating instructions for SIMFIX.

A simple structural frame stressing program (Livesley method).

Program specification: Sensimatic to Pegasus. Double marshalling version.

The determination of maxima and minima of solution of differential equation.

Solution of resonant frequencies of a helicopter blade.

A program for the stressing of swept multi-web structures.

Program for calculating aerodynamic stiffness and damping matrices.

Program for the calculation of whirling speeds.

Description of a program for the stressing of multi-anchor 3-dimensional pipework systems.

The example of an Autocoded program for sales analysis and forecasting.
CS 232  Banking applications of Pegasus.
CS 252  A program for power system load studies.
CS 273  A program for multiple regression analysis.
CS 285  Program for power system transient stability studies.
CS 287  Log book analysis program. Mk.2.

R 19  "Filing business data on magnetic tape"
      By J.F. Davison of Ferranti,
      From Data Processing. April/June 1959.

R 22  "Prediction by computer"
      By J.K. Wyatt of Glacier Metal Company,

6.3  Mercury Computer
CS 174  Complete program - Fourier synthesis.

6.4  Perseus Computer

R 20  "An insurance application - The Ferranti Perseus
      data-processing system"
      By P.M. Hunt of Ferranti,

6.5  Orion Computer

6.6  Argus Computer

R 30  "Controlling continuous process by computer"
      By T. Stones of Ferranti,

R 48  "Ferranti Argus plant control computer"
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