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**Proceedings of the 1974 Clinic
on Library Applications
of Data Processing:
Application of Minicomputers
to Library and Related Problems**

**Papers presented at the
1974 Clinic on Library Applications
of Data Processing, April 28–May 1, 1974**

**APPLICATIONS OF MINICOMPUTERS
TO LIBRARY AND RELATED PROBLEMS**

**Edited by
F. WILFRID LANCASTER**

**University of Illinois
Graduate School of Library Science
Urbana-Champaign, Illinois**

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ACRONYMS

APL	A Programming Language
ARPA	Advanced Research Projects Agency
ASCII	American Standard Code for Information Interchange
ATS	Administrative Terminal System
BALLOTS	Bibliographic Automation of Large Library Operations using a Time-sharing System
BNB	British National Bibliography
BPI	Bits per Inch
BPS	Bits per Second
CDC	Control Data Corporation
CHASM	Chicago Access Support Module
CID	Centre for Information and Documentation (of the European communities)
CLSI	Computer Library Services, Inc.
COM	Computer Output Microfilm
CPS	Characters per Second
CPU	Central Processing Unit
CRT	Cathode Ray Tube
DCM	Data Communications Multiplexor
DEC	Digital Equipment Corporation
DMA	Direct Memory Access
EDP	Electronic Data Processing
ESRO	European Space Research Organization
FAC	File Access Channel
FLS	Faculty of Library Science (University of Toronto)
HASP	Houston Automatic Spooling Program
I/O	Input/Output
IOC	Input/Output Channel
IOCS	Input/Output Control System
IPS	Inches per Second
IR	Information Retrieval
Inspec	Information Service in Physics, Electrotechnology and Control
ISBN	International Standard Book Number
LC	Library of Congress
MARC	Machine-Readable Cataloging
MDS	Microform Data Systems, Inc.
MEDLINE	MEDLARS On-Line
Ns	Nanosecond
OEM	Original Equipment Manufacturer

OS	Operating System
OULCS	Ontario University Libraries Cooperative System
POS	Point of Sale
RECON	Remote Console
RIOT	Retrieval of Information by On-line Terminal
ROM	Read Only Memory
SDI	Selective Dissemination of Information
SILC	System for Interlibrary Loan Communications
TCU	Transmission Control Unit
TYMNET	Tymshare Network
UTCC	University of Toronto Computer Centre
UTLAS	University of Toronto Library Automation System
VS	Virtual Storage

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INTRODUCTION

It is widely recognized that library automation is most likely to be economically justifiable through (a) the sharing of computer resources among a number of libraries, by networking or other cooperative arrangements, or (b) the use of minicomputers within the complete control of a single library. Cooperation in data processing was the subject of the clinic of 1973. It is fitting, therefore, that the other approach, the use of minicomputers, should have been the theme of the 1974 clinic, the proceedings of which appear in this volume.

These papers present a wide range of applications of minicomputers to library-related problems: circulation control, cataloging, education and training, information retrieval, acquisitions, serials control, and other technical processes. In some applications the minicomputer is a stand-alone unit, in others it is a "front end" device in a larger equipment configuration, and in the application discussed by Waite, the minicomputer is incorporated into an on-line terminal operating within a dispersed computing network. An important element in this clinic was the tutorial on minicomputers in libraries, presented by Divilbiss and Corey.

This clinic was attended by well over 100 representatives from all types of libraries. A formal evaluation, conducted by questionnaire, indicated that the clinic was received with enthusiasm by the majority of participants. The evaluation was also very useful in bringing out suggestions from the participants on topics for future clinics, as well as suggestions as to how the format of these meetings might be improved in the future.

F. WILFRID LANCASTER
Editor

