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ABSTRACT

The purpose of the Ohio College Library Center (OCLC) computerized regional library system is to provide an on-line system that makes available to faculty and students in individual colleges and universities the library resources throughout a region, while at the same time decelerating the rate of rise of per-student library costs. The research and development culminated in the successful implementation of an on-line union catalog and shared cataloging system. The final report of the project is LI 004 422. This document contains appendix twenty-four, The Ohio College Library Center Program/Subroutine Documentation; Master Data Base Update (MDBUPD). The program MDBUPD (Master Data Base Update) is used to add the records from the weekly MARC tapes to the existing data base. This program takes a record that is in MARC format, checks the entries for validity, and converts it into the current bibliographic data file format. The program assigns an OCLC number to new records and adds them to the data base. MDBUPD replaces corrected or revised records and deletes unwanted records. It also returns various statistics. (Other appendices are LI 004 423, LI 004 424 and LI 004 426 through LI 004 428.) (Author/SJ)

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APPENDICES

- I. Instruction Manual for Catalog Production. (LI 004 423)
- II. Manual for OCLC Catalog Card Production; Revised and Enlarged. Judith Hopkins. (LI 004 423)
- III. Creation of Machine Readable Catalog Entries; An Adaptation of the "Data Preparation Manual: MARC Editors." (LI 004 423)
- IV. Cataloging on a Cathode Ray Tube Terminal. (LI 004 423)
- V. Brief Description of the Serials Control System: A Preliminary Report. (LI 004 424)
- VI. A Preliminary Description of the OCLC Serials Control System. (LI 004 424)
- VII. Manual for Checking-In, Binding, and Claiming of Serials on a CRT Terminal Draft of Preliminary Procedures. (LI 004 424)
- VIII. Suggested Minimum Requirements for Serials Cataloging. (LI 004 424)
 - IX. OCLC Technical Processing System A Preliminary Outline. (LI 004 424)
 - X. The Technical Processing System, May 1972. (LI 004 424)
 - XI. Recommended Standards for the Cataloging of Serials. (LI 004 424)
- XII. Standards for Input Cataloging. (LI 004 424)
- XIII. The Technical Processing System, August 1972. (LI 004 424)
- XIV. Ohio College Library Center Annual Report, 1971/1972. (LI 004 424)
- XV. Large On-Line Files of Bibliographic Data: An Efficient Design and a Mathematical Predictor of Retrieval Behavior. P.L. Long, K.B.L. Rastogi, J.E. Rush and J.A. Wyckoff. (Not Available EDRS)
- XVI. OCLC Systems: Technical Aspects. Phillip Long. and Ohio State University Libraries Systems. Gerry D. Guthrie. (Not Available EDRS)
- XVII. Name-Title Entry Retrieval from a MARC File. Philip L. Long and Frederick G. Kilgour. (Not Available EDRS)
- XVIII. A Truncated Search Key Title Index. Philip L. Long and Frederick G. Kilgour. (Not Available EDRS)
 - XIX. Title-Only Entries Retrieved by Use of Truncated Search Keys. Frederick G. Kilgour, Philip L. Long, Eugene B. Leiderman and Alan L. Landgraf. (Not Available EDRS)
 - XX. Ohio College Library Center Systems. Frederick Kilgour. (Not Available EDRS)
 - XXI. Evolving, Computerizing, Personalizing. Frederick Kilgour. (Not Available EDRS)

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- XXIII. Cataloging with a Computer OCLC Comes to Pennsylvania. Robert C. Stewart. (Not Available EDRS)
- XXIV. The Ohio College Library Center Program/Subroutine Documentation; Master Data Base Update (MDBUPD). (LI 004 425)
- XXV. The Ohio College Library Center Program/Subroutine Documentation; Convert Call Number (CNVT), (LI 004 426)
- XXVI. The Ohio College Library Center Program/Subroutine Documentation; Generate Pack Definition Tables (GENPDTS). (LI 004 427)
- XXVII. The Ohio College Library Center Program/Subroutine Documentation; Catalog Card Format Program (CCFP). (LI 004 427)
- XXVIII. The Ohio College Library Center Program/Subroutine Documentation; Build Print Tape (BPT). (LI 004 428)



THE OHIO COLLEGE LIBRARY CENTER PROGRAM/SUBROUTINE DOCUMENTATION

Master Data Base Update (MDBUPD)

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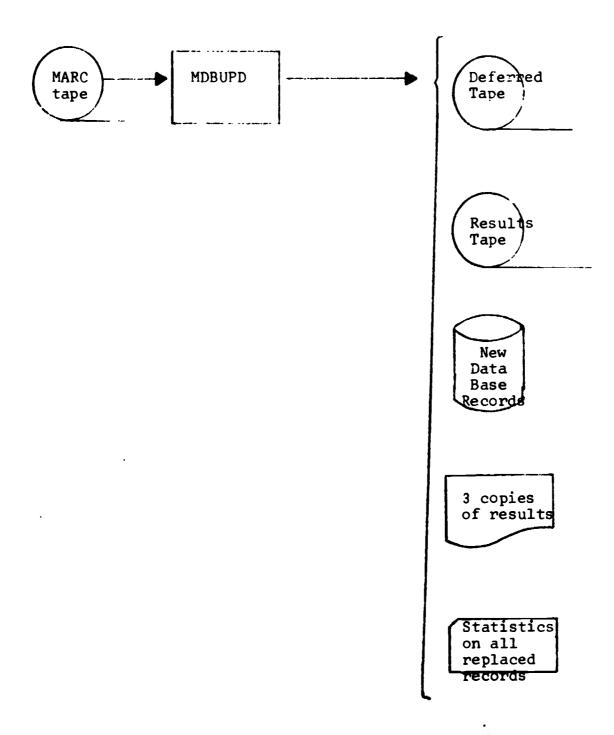
OCLC PLOGRAM DOCUMENTATION

I. Overview

The program MDBUPD (Master Data Base Update) is used to add the records from the weekly Marc tapes to the existing data base. This program takes a record that is in MARC format, checks the entries for validity, and converts it into the current bibliographic data file format. The program assigns an OCLC number to new records and adds them to the data base. MDBUPD replaces corrected or revised records and deletes unwanted records. It also returns statistics as to the number of records added, replaced, deleted, rejected, and so on. It also returns 3 copies of the error messages on paper and 1 copy on an output tape. The records that could not be processed for one reason or another are written on the deferred tape.

CAUTION: MDBUPD is not to be run during online processing.

II. DATA FLOW



III.1

III. SUMMARY OF INPUT & OUTPUT

A. MARC TAPE (INPUT)

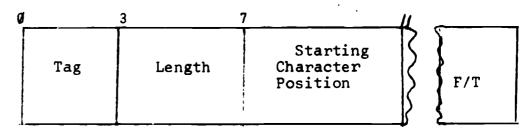
Volume Header Label	er T	abel for Monographs	T	Enl of File Label	T	T	
---------------------------	------	---------------------	---	-------------------------	---	---	--

TM= Tape Mark (MARC Manual 1- p. 3)

- Volume Header Label -- MARC Manual Page 2
- File Header Label -- MARC Manual Page 2
- 3. File of Records for Monographs:

<u>Ø</u>	<u> </u>		
Leader	Record Directory	Control Fields	Variable Fields

- a. Leader -- Page III.3
- b. Record Directory:



1. MARC MANUAL Vol. 1

Books: A MARC Format

III.2

Name of Record Directory Data Element	No. of Char's	Char. Pos.	
Tag	3	Ø - 2	
Length	ц	3 - 6	
Starting Char. Pos.	5	7 - 11	

c. Control Fields

Data Element l	Data Element 2	Data Element 3		F/T
-------------------	-------------------	-------------------	--	-----

MARC Manual - Page 30 - 39

d. Variable Fields

Subfield Subfield Code Data Element 1	Data Element 2	F/T
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MARC Manual - Page 40 - 70

4. End of File Label - MARC Manual - Page 3

the ohio college library center 1314 kinnear rd. — columbus ohio — 43212

Record Layout

File Name MARC RECORD LEADER FORMAT (INPUT)

Record Name
Record Type - () Card (x) Tape () Disk () Other
File Organization SEQUENTIAL Record SizeBlock Size
General Description

DESCRIPTION OF THE PROPERTY OF		FIELD	
FIELD NAME AND DESCRIPTION	POSITION	LENGTH	FORMAT
RECORD LEADER		ļ	
Logical Record Length	0 - 4	5	ASCII
Record Status (MARC Manual Page 26)	5	1	ASCII
Type of Record (MARC Manual Page 26)	6	1	ASCII
Bibliographic Level (MARC Manual Page 26)	7	1	ASCII
Blanks	8 - 9	2	ASCII
Indicator Count (MARC Manual Page 27)	10	1	ASC II.
	1		

III.4
Record Layout (Cont)

File Name MARC RECORD FORMAT

Record Name	
-------------	--

		FIELD	
FIELD NAME AND DESCRIPTION	POSITION	LENGTH	FORMAT
Subfield Code Count (MARC Manual Page 27)	11	1	ASCII.
Base Address of Data (MARC Manual Page 27)	12 - 16	5	ASCII
Encoding Level (MARC Manual Page 27	17	1	ASCII
Blanks	18 - 19	2	ASCII
Entry Map (proposed - MARC Manual Page 27)	20 - 23	4	ASCII
			,

Application _	Format	Date 8/2	01/72 Page 1 of	上
Procedure		Drawn by	T. Beckett	
				•
<u> </u>				
Log	ical Record Leng	th		
 		6 Type o	- 7 liographi	c [
	Record St	atus Record	Level	
-		Indicato	r Subfield	
Blanks		Count		
12				
Base Addı	cess of Data			
16	17 Encoding		18	
	Level		Blanks	
120				
	Entr Map			
]
 		*		- 1
				_
 				
				
,				
				

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le Name_BIBLIOGRAPHIC_DATA_FILE
cord Name BIBLIOGRAPHIC RECORD
cord Type - () Card () Tape (x) Disk () Other
IBM Variable le Organization <u>Blk Format</u> Record Size <u>ц5-6]цц</u> Block Size <u>6]цц</u>
neral Description OCLC internal processing format of the MARC II
Bibliographic Record. Access is either sequential or random.
<u> </u>
FIELD FIELD

FIELD NAME AND DESCRIPTION	FIELD					
FIELD NAME AND DESCRIPTION	POSITION	LENGTH	FORMAT			
RECORD LEADER						
Logical Record Length	0-1	2	Binary			
Record Status Character (MAP.C Manual - Page 26).	2	1	EBCDIC			
Encoding Level (MARC Manual - Page 27)	3	.· 1	EBCDIC			
Leader Length - byte size of leader including terminator (X 'FD')		1	Binary			
Type Index - index into a table of Material Type Indicator Codes (See Cataloging on a CRT Terminal - Page 32). Note that the zero entry is used.		Upper 4 bits	Binary			
•	;					

File Name BIBLIOGRAPHIC DATA FILE

Record Name BIBLIOGRAPHIC RECORD

PTELD NAME AND DECODED TON	FIELD			
FIELD NAME AND DESCRIPTION	POSITION	LENGTH	FORMAT	
Bibliographic Level Index - index into a table of level codes (See Cataloging on a CRT Terminal - Page 32). Note that the zero entry is used.	5	Lower 4 bits	Binary	
Reserved	6-7	10 Bit	sBinary	
Variable Control Field Length - Word length of field between supplement number and suffix character in LC card number.	7	Lower 6 bits		
OCLC Number	8-11	4	Binary	
Date Entered Year Month Day	12 13 14	1 1 1	Packed* Packed* Packed*	
Type of Publication Date - Description of contents of Publication Date fields (See MARC Manual pp. 32-34).	15	1	EBCDIC	
Publications Dates Date #1 Date #2	16-17 18-19	2 . 2	Packed* Packed*	
Country of Publication - First two characters of MARC field (See MARC Manual pp. 35, 290-318).	20-21	2	EBCDIC	
Illustration Code Indexes - Four 4-bit indexes into the table of Illustration codes (See MARC Manual pp. 35). Note that the zero entry is used to indicate an invalid code was received and that entry contains a blinking blank.	22-23	2	Binary	
Packed data is numeric data which has had the upper four bits of each numeral removed an has been packed two digits per				

File Name BIBLIOGRAPHIC DATA FILE

Record Name BIBLIOGRAPHIC RECORD

IELD NAME AND DESCRIPTION					
TIED WANT AND DESCRIPTION	POSITION	LENGTH	FORMAT		
Form of Content Code Indexes - four 4-bit indexes into a table of codes describing the form of work (See MARC Manual pp. 36-37). Note that the zero entry contain a blinking blank to indicate an invalid code was received.	• .	2	Binary		
Intellectual Level Index - index into a table of intellectual level codes (See MARC Manual pp. 36). Note the zero entry is used to indicate that the input code was invalid and contains a blinking blank.	26	Upper 4 bits	Binary		
Format Reproduction Code Index - Index into a table of codes describing the type reproduction if any. Note the zero entry is used to indicate that the input code was invalid and contains a blinking blank.		Lower 4 bits	Binary		
Indicators 10 thru 15 - bit switches to indicate the MARC indicators described in the MARC Reference Manual (pp. 37- 38, par. 10-15). Bit values are Bit 0 - REserved 182 - Government Pub. Ind. 3 - Conference Pub. Ind. 4 - Festschrift Ind. 5 - Index Ind. 6 - Main Entry Ind. 7 - Function Ind.		1	Binary		
Biography Code Index - index into a table of biography codes (See MARC Reference Manual pp. 33). Note that the zero entry contains a blinking blank to indicate an invalid code was received.	28	1	Binary		

File Name BIBLIOGRAPHIC DATA FILE

Record Name_BIBLIOGRAPHIC RECORD

per byte.

FIELD					
FIELD NAME AND DESCRIPTION	POSITION	LENGTH	FORMAT		
Modified Record Indicator Index - Index into a table of codes describing the type of change. Note that the zero entry contains the blinking blank character to indicate a code was received in error. (See MARC Manual pp. 38-39).	29	Upper 4 bits	Binary		
Catalog Source Index - index into a table of codes to describe other sources of catalog records (See MARC Manual - page 39.) Note that the zero entry contain a blinking blank to indicate an error code was received.	s	Lower 4 bits	Binary		
Language Index - index into a table of language codes to describe the text of the data. Although the codes are not arranged exactly as shown, see the manua "Cataloging on a Cathode Ray Tube Terminal" pp. 46-52.		2	Binary		
LC-Card Number Prefix Year Part Number Part Supplement number	32-34 35 36-38 39	3 1 3 1	EBCDIC Packed* Packed* EBCDIC		
Length of 1st Author Substring The number of bytes to use for the first author substring	40-41	2	Binary		
Displacement of 1st Author Substri Byte displacement to the 1st author substring from end of leader	ng42-43	2	Binary		
* Packed data is numeric data which has had the upper four bits of each numeral removed and has been packed two digits					

Page 5

File Name BIBLIOGRAPHIC DATA FILE

Record Name BIBLIOGRAPHIC RECORD

	FIELD				
FIELD NAME AND DESCRIPTION	POSITION	LENGTH	FORMAT		
Length of 2nd Author Substring The number of bytes to use for the second author substring.	44-45	2	Binary		
Displacement of 2nd Author Substring Byte displacement to the 2nd author substring from end of leader.	46-47	2	Binary		
Length of Title Substring The number of bytes to use for the title substring.	48-49	2	Binary		
Displacement to Title Substring The byte displacement to the title substring from the end of the leader.	50-51	2	Binary		
Holdings File Pointer Word Pointer to holdings list.	52-55	4	Binary		
Institutional Holdings Bits Bit switches indicating holding for an institution. A one indicates holdings, a zero indicates no holdings.	56-71 S	16	Binary		
A variable length character string which may be absent. Displacement to suffix equal to 40 + 4*n where n equals the binary value of bits 2-7 of byt #7 of leader. Length of suffix is equal to the leader length, byte #4, minus the displacement to the suffix minus one.	е	Varia- ble	EBCL		
Leader Terminator X "FD" that follows the suffix to indicate the end of the leader.	Variable	1	Binary		

File Name BIBLIOGRAPHIC DATA FILE

Record Name BIBLIOGRAPHIC RECORD

LOGICAL RECORD LENGTH RECIRD STATUS LEVEL TOTAL LINEMA TYPL ISSELIC RESERVED INTEGRATIS OF SEVEL STATUS OF LEAVES INCL. INDEX LINEL INDEX LOCAL RECORD NUMBER 12 DATE ENTERED ON FILE TYPE OF PUBLICATION THE STATUS OF THE S	lica	tion Ca	Liet	بالالا	<u> </u>	1.44	•	Reco	2'1)		Date		1/1,	/7/	•	Para	,
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File Name BIBLIOGRAPHIC DATA FILE			
Record Name AITTHOR TITLE & TITLE ONLY I	NDEX (AT &	TO)	
Record Type - () Card () Tape (XX) Dis	sk () Othe	r	
File OrganizationRandom Record Si	ze 12-bytes	Block S	ize <u>1020</u>
General Description This file is used			
Bibliographic Record(s) from the input			
which is hashed to a disk address with			
key and the title key within the recor			
one of the possible matching BIB recor			
FIELD NAME AND DESCRIPTION		FIELD	
FIELD NAME AND DESCRIPTION	POSITION	LENGTH	FORMAT
Chaining Flag - Bit flag indicating end of chain. 0 = Not last in entry chain	0	Bit 0	Binary
1 - End of entry chain Master BIB Record Present Flag - Bit flag indicating whether BIB record is present or absent (deleted)	0	Bit 1	Binary
<pre>0 = Master record deleted 1 = Master record present</pre>	,		
Bibliographic Record Address - 30 bit disk address of Bibliographic record.	0 - 3	30 Bits	Binary
Author-Title & Title Only Key - String of six EBCDIC characters which make up the 3,3 key of the bibliographic record pointed to by the index.	4-9	6	EBCDI C
Reserved	10-11	2	i

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File Name RIBLIOGRAPHIC DATA FILE
Record Name OCLC # INDEX (OCLC)
Record Type - () Card () Tape (XX) Disk () Other
File Organization Random Record Size 8-bytes Block Size
General Description This file is used to access the required
Bibliographic Record(s) from the input OCLC # Key which is hashed
to a disk address within the file.

Chaining Flag - Bit flag indicating end of chain. O: Not last in entry chain 1 = End of entry chain flag indicating whether BIB record is present or absent (deleted) O = Master record deleted 1 = Master record Address - 30 bit disk address of Bibliographic record. Reserved POSITION LENGTH FORMAT O Bit 0 Binary O Bit 1 Binary O Bit 1 O Bit		FİELD					
end of chain. 0 : Not last in entry chain 1 = End of entry chain Master BIB Record Present Flag - Bit flag indicating whether BIB record is present or absent (deleted) 0 = Master record deleted 1 = Master record present Bibliographic Record Address - 30 bit disk address of Bibliographic record. Bibliographic Record Address - 30 bit disk address of Bibliographic	FIELD NAME AND DESCRIPTION	POSITION		FORMAT			
flag indicating whether BIB record is present or absent (deleted) 0 = Master record deleted 1 = Master record present Bibliographic Record Address - 30 bit disk address of Bibliographic record. 30 Bits Binary	end of chain. 0 : Not last in entry chain	0	Bit 0	Binary			
bit disk address of Bibliographic record.	flag indicating whether BIB record is present or absent (deleted) 0 = Master record deleted	0	Bit 1	Binary			
<u>Reserved</u> 4-7 4	bit disk address of Bibliographic	0 - 3	30 Bits	Binary			
	Reserved	4 - 7	4				

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File Name BIBLIOGRAPHIC DATA FILE							
Record Name LIBRARY OF CONGRESS CARD NO. INDEX (LCCN)							
Record Type - () Card () Tape (χ) Dis	sk () Othe	er					
File Organization Random Record Si	ze <u>12-bytes</u>	Block S	ize <u>1020</u>				
General Description This file is used t	o access 1	the requi	red Biblio-				
graphic Record(s) from the input l	CCN key wh	nich is h	ashed to				
a disk address within the file.	f the inpu	it key an	d the				
title key within the record agree	the inde	c points_	to one of				
the possible matching BIB records.	·	, , , , , , , , , , , , , , , , , , , 					
FIELD NAME AND DESCRIPTION	POSITION	FIELD LENGTH	FORMAT				
Chaining Flag - Bit flag indicating end of chain.	0	Bit 0	Binary				
<pre>0 = Not last in entry chain 1 = End of entry chain</pre>	•						
Master BIB Record Present Flag - Bit flag indicating whether BIB record is present or ab-	0	Bit 1	Binary				
<pre>sent (deleted) 0 = Master record deleted 1 = Master record present</pre>	•						
Bibliographic Record Address - 30 bit disk address of Bibliographic record.	0-3	30 Bits	Binary				
<u>LCCN Key</u> - Library of Congress Card Number Prefix	4-6	3	EBCDIC				
L.C. Card Number Part	7-10	4	Packed				
L.C. Supplement	11	1	EBCDIC				
		-	•				

IV.1

IV. FUNCTIONS

A request is made on the OC device to mount the MARC tape on 9TA80 and the output tape for deferred records on 9TA81. If Sense Switch's are '0' the deferred tape is positioned past the last tape marks. If Sense Switchs are not 0, a reply is requested from the operator. A reply of 'x' will abort the job. A reply of 'NEW' indicates that the deferred tape is new and to start processing. A reply of anything other than 'x' or 'NEW' will cause the request for a reply from the operator to occur again. An area called 'RESULTS' is assigned on the RAD for error and warning messages.

After initialization, the program 'READMARC' reads a record from the MARC tape. If this record is the volume header label or the end of file label, it is converted to FPCDIC and written on the deferred tape.

The routine 'CASBI' is used to convert fields to binary, the result being returned in R1. The routine 'CASEB' is used to convert fields to EBCDIC, the address of the result being returned in the third word of the parm list.

The base address of the data and the record length are picked up from the MARC leader and converted to binary. Positions 6-11 of the leader are verified as being 'am 22'. Positions 18-23 are verified as being all blanks.

The record directory is taken from the MARC tape and a corresponding binary directory is built for the bibliographic record at location 'DIR', where each field has a 2-word entry:

Word #0 -- tag (1 byte), BA(field)
Word #1 -- length of field

The record status is now checked. If it is 'D' the record is to be deleted. This is accomplished by changing the Encoding level to 'J' and skipping the error checking and formating of the record. Otherwise, the bibliographic record leader is built taking the data from the leader, field 601 and field 608 of the MARC record. The next available OCLC # is found and is put into the leader. Each data entry is converted from ASCII to either EBCDIC or PACKED, is checked for validity using the tables in MDBUPD, and is

IV.2

moved to the appropriate position in the leader. There are 2 instructions indicated in the 'BLDLEADR' section of the program listing which must be changed if the last 8 control fields are to be added to the leader.

The length of each field and the indicators are checked for validity against the tables. Any invalid characters are reported as errors and replaced with blinking blanks (X'77'). If the field begins with a '\neq a' subfield code, the subfield code is deleted, and the rest of the field is converted to the proper format (either EBCDIC, binary or packed), checked for valid characters, and moved to the output buffer. Then the subfield codes are checked for validity using the table 'SFLD'. Each field is moved in this manner until an end of record indicator is encountered (X'FE').

If there were any errors in the record, the error message and the record are written on the RAD and printed in the format as shown in APPENDIX B. All Warning messages are also written on the RAD. The subroutine 'INDEXER' is then the authortitle key, and the LC card number key. The subroutine 'SEARCHER' performs several checks on these keys. This MARC record is checked against the other existing MARC records. If the LC card numbers match, the new MARC is logged as a duplicate and is entered on the deferred tape. The MARC record is checked against the records input by the member libraries (those with encoding level ='I'). If all 3 keys are equal, the holdings from the data base record are added to the new MARC record and the data base record is deleted but its OCLC# is kept. a weekly record that has a 'D' (delete) status has the same LCCN as an old MARC record, the old MARC record is deleted as long as it has no holdings. If it does have holdings, its encoding level is changed to 'I' and it remains on the data base. The new MARC record is checked against the old MARC records which have an encoding level of 'J' (deleted). If the LC card numbers are equal, the old data base record is replaced with the new MARC record. Then the new MARC record is checked against the user data base records and the MARC data base records which have an encoding level of 'J'.

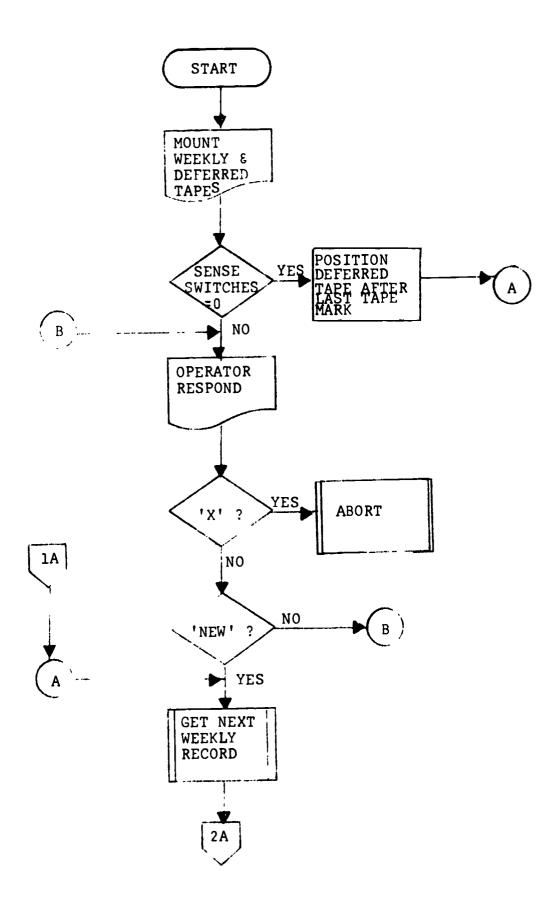
If the card numbers are not present or are not the same, but the title key and the author-title key match, the record is written on the differed tape and awaits human intervention. If the new MARC record has been proven not to be a duplicate, the record is either written at the end of the Bibliographic file, or is written in an available slot where another record had been deleted.

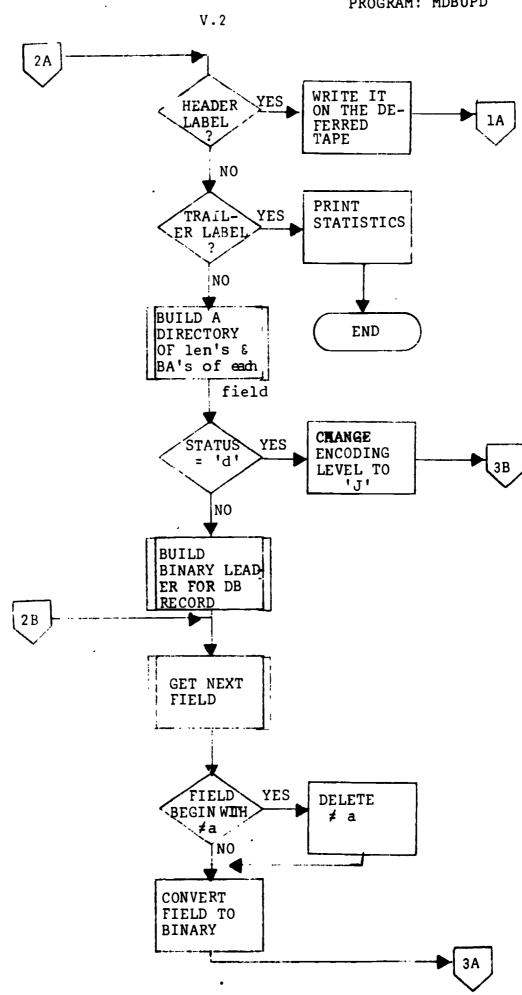
IV.3

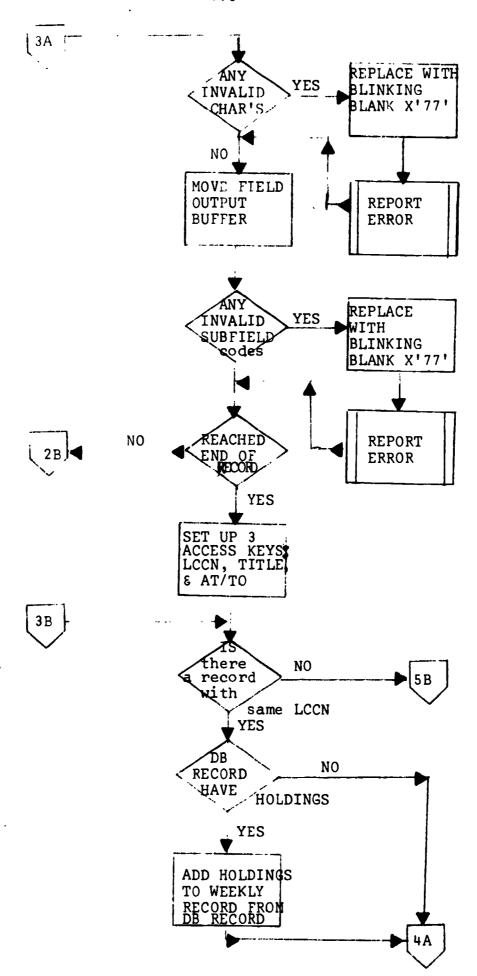
Before reading the next MARC record, a check is made to determine if the previous record was a replacemen record. If it was, the LC card number and the OCLC number of the Marc record and the OCLC number of the Data Base record are punched on the card punch. If the previous record was the last record on this weekly tape, the Summary statistics are written on the RAD file.

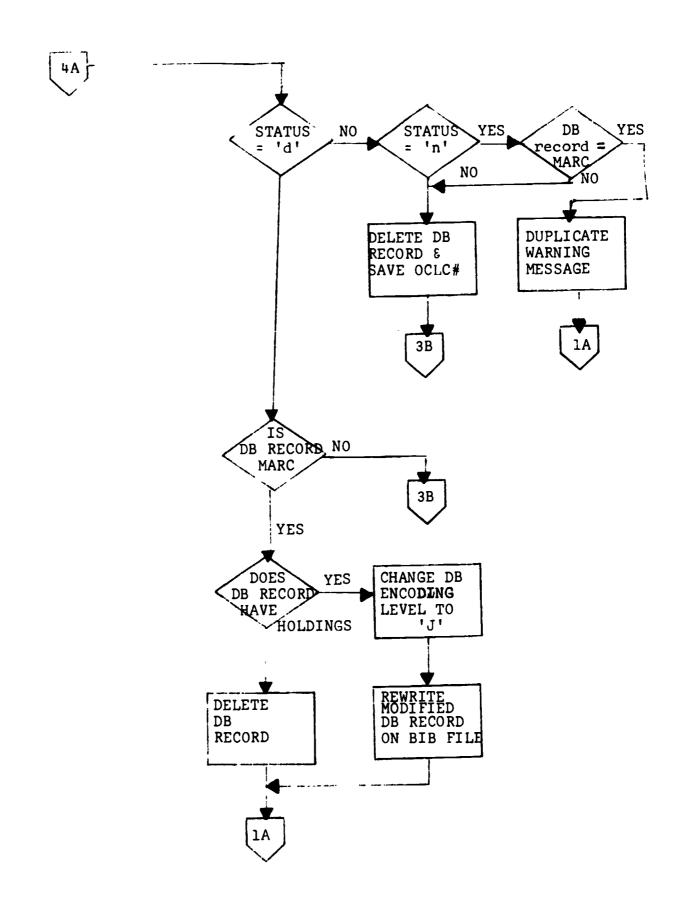
V.1

V. GENERAL INFORMATION FLOW

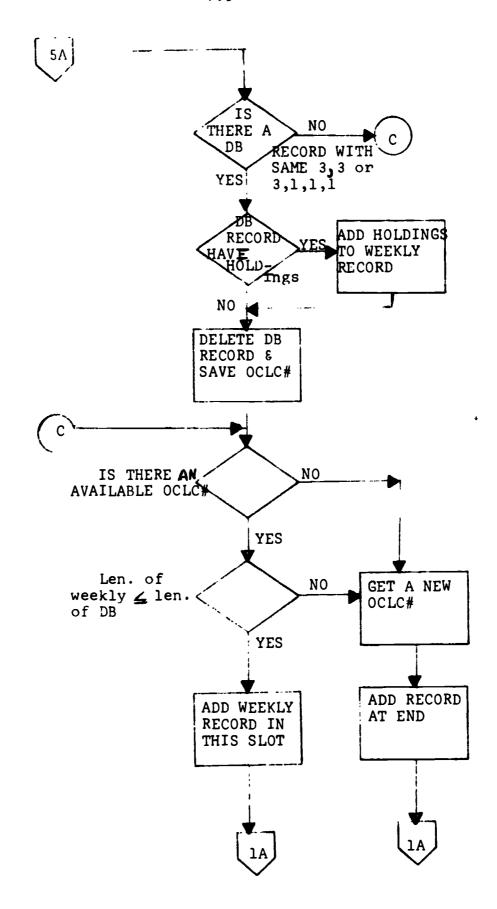








V.5



VI.1 PROGRAM: MDBUPD

VI. SOFTWARE INTERFACE

- A. Linkage background linkage with OBM
- B. Parameter List Description none
- C. Return Codes none
- D. Other Entry Points none
- E. OCLC Subroutines Referenced

CASEB CASBI MDBUPDLG OPENMARC READMARC CLOSEMARC PACK UNPK \$MBS \$MBSS NDX123 ADDMAST RADDMAST DELTMAST LCCN000 (Alternate EP, LCCN000T) INDEXER

VII.1

VII. DESCRIPTION OF SPECIAL STORAGE AREAS, SWITCHES, AND TABLES

- A. Special Storage None
- B. Special Switches None
- C. Tables

ECV - This is a table of sub-tables which will set up the table of parameters required for the program 'CBIEB' which will convert binary data to EBCDID. An example of an 'ECV' table would be:

ECV1 DATA 0 5,C'',C'+',C'-' DATA 0

where the first word is the number to be converted; the second word contains the length in bytes to be converted, a fill character (usually a blank), a plus sign and a minus sign; the third word has the byte address of the area where the converted number is to go.

PACK ____ The data statements PACK _ _ _ are used to generate the parameter list needed for the OCLC subroutine 'PACK' which is used to convert ASCII fields to packed format. A sample statement would be:

PACK LCC# DATA BA(UNPLCCN) +3,8, BA(PLCCN) +3,0

The first word gives the address of the field to be packed. The second word gives the number of bytes to be converted. The third word gives the byte address of where to put the packed field. The fourth word is where the condition of the conversion is passed.

CASBI3, CASBI4, CACBI5 -- These are data statements which are used to set up the parameter list for the OCLC subroutine 'CASBI' which converts a field in ASCII format to binary. A sample data statement would be:

CASBI3 DATA 3,0,0

The first word gives the number of bytes to convert. The second word is used for the byte address of the field to be converted. The third word is used to return the condition of the conversion.

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DELTPARM, ADDPARM, RADDPARM, RESTPARM, - These are data statements which set up the parameter lists for the OCLC subroutines DELTMAST, ADDMAST, and RADDMAST. A sample data statement would be:

DELTPARM DATA 0, DBBUF, MASTWORK, ATKEY+2, DBADDR

The first half-word is where the status is returned. The second word is the word address of the bibliographic record. The third word is the word address of the work area. The fourth word is the word address of the returned OCLC entry. The fifth word is the word address of the index (for RADDMAST and DELTMAST only).

MSG TABLE - This is a table of partial text messages from which a message will be built. A sample entry would be:

MSG8 TEXTC 'FIELD TERMINATOR MISSING IN POSITION'

PRCS - This is a branch table of routines that are used to check the tag fields for required data and to check that the subfields are correct and in the correct sequence. The index to this table is retrieved from the table 'PRC'. The calling sequence for this table is:

LB,R1 PRC,R6 PRCS,R1

where R6 has the field index obtained from the table 'TAGS' for this field.

ERL - and ABL - These are tables of procedures that set up the FPT's and the parameters for printing the error messages. These tables are described more thoroughly in Section VIII, Part E with the description of the procedures 'MSG', 'DEC', 'HEX', and 'MEND'.

<u>SUL</u> - This is a table of sub-tables which set up the parameters for printing the messages concerning the weekly tape totals. An example of a sub-table would be:

SUL1 DEC ECV6
MSG MSG42
MEND

The procedure 'DEC' sets up the parameters for the conversion to EBCDIC. The procedure 'MSG' causes the message to be copied. The procedure 'MEND' indicates the end of the parameter list. For a more thorough description of the procedures, refer to Section VIII, Part E.

TAGS - This is a table of valid tag indicators. The procedure 'DTAG' will cause these entries to expand to a table with 841 byte entries. The procedure 'DTAG' is described more thoroughly in Section VIII, Part E. Each tag from 001 to 840 has a corresponding byte entry which can be found by using the tag number as an index. The byte entry in the table will be used as an index for that field into all the other tables. This byte will be called the field index. If the corresponding byte is 0 when the table is indexed by a tag number, that tag is invalid. A partial expansion of the table would be:

DATA,1	1
DATA,1	0
DATA,1	2
DATA,1	0
DATA,1	3
	DATA,1

In other words, the first entry is a 'l' (field index for the 001 field); the eighth entry is a '2' (field index for the 008 field); the fifteenth entry is a '3' (field index for the 015 field), and so on. All other entries are '0' to indicate an invalid tag. This byte (the field index) is then stored at the beginning of the field's entry in the directory.

- BTAGS This is a table which contains the half-word binary value of the tag value. This table is indexed by the field index which was found from the table 'TAGS'.
- MINL This is a byte table whose entries indicate the minimum byte length acceptable for each tagged field. This table is indexed by the field index for this field. The 001 and 008 fields are handled separately.
- IND1 This is an indexable byte table of byte displacements into the 'NL'table. This table and the 'NL'table are used to verify and edit the first indicator for each individual field. The byte displacement into the 'NL' table for a particular field is picked up from this table using R6, the field index. If the byte

displacement code for a field is 'FBL', the first indicator should be a blank and a blank is loaded into the record in the first indicator position. If the byte displacement code for a field is 'PBL' and the first indicator is a blank, it is replaced with a blinking blank. The indicator for fields 001 and 008 are handled separately.

- IND2 This is an indexable byte table of byte displacements in the 'NL' table. This table and the 'NL' table are used to verify and edit the second indicator of each individual field. This table is set up the same as the table 'IND1'.
- This is an indexable byte table of byte displacements into the table 'AL'. This table and the table 'AL' are used to verify the subfield codes for each individual field. The byte displacement into the table 'AL' for a particular field is picked up from this table using R6 the field index. The subfield codes for the 001 and 008 fields are handled separately.
- This is an indexable byte table of word indexes into the branch table 'PRCS'. This table and the table 'PRCS' are used to verify and edit the required data for each individual field. The word index into the table 'PRCS' for a particular field is picked up from this table using R6, the field index. The data for the 001 and 008 fields are handled separately.
- MINCNT An indexable byte table whose entries indicate the minimum allowable times a tagged field may appear within each MARC record. This table is indexed by the field index obtained from the table 'TAGS'.
- MAXCNT This is an indexable byte table whose entries indicate the maximum allowable times a tagged field may appear within each MARC record. This table is indexed by the field index obtained from the table 'TAGS'.
 - AL This is an indexable byte table of valid subfield codes that may be used for a particular field. This table contains 30 subtables, one of which is associated with each valid field. The first entry of each sub-

VII.5

table is the number of byte entries for this subtable. The remaining entries are the valid subfield codes. The correct subtable is located by first retrieving the byte displacement from the table 'SFLD' for a particular field. This is then used as an index to point to the correct subtable in the table 'AL'. The program 'NDX123' uses this subtable to verify the subfield indicators. The table 'AL' is used with the following sequence of instructions:

LB,R3	SFLD,R6	pick up the byte displacement using tag as an index point to the appropriate subtable of subfield
A 1,R3	AL	codes
BAĹ,R7	NDX123	go check for a
•		valid subfield code

where R6 equals the field index obtained from the table 'TAGS' for this field.

This is an indexable byte table of valid indicators that may be used for a particular field. This table contains 15 sub-tables, one of which is associated with each valid field. The first entry of each sub-table is the number of byte entries for this sub-table. The remaining entries are the valid indicators. The correct sub-table is located by first retrieving the byte displacement from either the table 'IND1' or 'IND2' for a particular field. This is then used as an index to point to the correct sub-table within the table 'NL'. The program 'NDX123' uses this sub-table to verify the indicators. The table 'NL' requires the following sequence of instructions:

LB,R3	IND1,R6	pick up byte displacement using
AI,R3	NL	tag as index point to the appropriate sub-
BAL,R7	NDX123	table of indicators go check for a valid indicator

where R6 equals the field index obtained from the table 'TAGS' for this field.

LNGLIST This is a word table of valid language codes. The language code from the MARC record is checked sequentially against the entries in this table until a match is found. The index that was used to verify

VII.6

the MARC language code is then used in the OCLC bibliographi record instead of the characters. The table is ordered so that the most frequently used language is found first.

CPLIST This is a half-word table of valid country of publication codes. If the work was published in the United States, Canada, Russia, or the United Kingdom, this table contains the mnemonic code for the state, province, or other subdivision. The country of publication code from the MARC record is checked sequentially against the entries in this table until a match is found. The index used to find the match is then used in the OCLC bibliographic record instead

of the characters.

VIII.1 PROGRAM: MDBUPD

VIII APPENDIX

VIII.2

APPENDIX A

OPERATING REQUIREMENTS

- 1. Computer Xerox Sigma 5
- 2. ^r/0 Devices 2 9 track tape drives, line printer, card reader/punch
- 3. Operating System OBM
- 4. Execution Time depends upon number of records to be added; approximately 45 minutes for 1500 records.
- 5. Run Schedule weekly
- 6. Job Control Language

```
!JOB ONLINE, MDBUPD
!IMG002A El
!RADEDIT
:CLEAR D2
           (FILE, D2, RESULTS), (FSI,8950), (FOR,C)
:ALLOT
!ASSION (M:SO,CP), (TRIES,100)
! MDBUPD
!IMG002A Ml
!STD (LL,0)
! RADEDIT
:COPY (FILE, D2, RESULTS), (OUT, LO), VFC
:COPY (FILE, D2, RESULTS), (OUT, LO), VEC
!STD (LL,LP)
!STD (BI,TO), (BO,0)
!COPY BI, 1000
SFI TO, BACK
!RADEDIT
:COPY (FILE, D2, RESULTS), (OUT, T0)
!WECF TO,2
!UNL TO
!JOB IDLE,
!IMG002A CCR
!FIN
```

VIII.3

APPENDIX B

OPERATING CHARACTERISTICS

- 1. CONSOLE MESSAGES
 - ! MES -- IF A MARC WEEKLY TAPE IS NOT TO BE ADDED !! PAU -- TO THE DATA BASE, THEN ABORT THIS JOB NOW.

RESPONSE:

ACTION:

'X'

Abort the job

1C1

Continue to add the MARC tape

!! PAU -- READY CARD PUNCH * RESPONSE: 'C' - New Line

MOUNT OUTPUT ON 081

RESPONSE: 1) Mount tape as directed -- ring in

2) 'C' - New Line

MOUNT WEEKLY ON 080

RESPONSE: 1) Mount tape as directed -- no ring

2) 'C' - New Line

If a new deferred tape is to be started, set all Sense Switches to 'l' and the following message will appear on the console:

RESET SENSE SWITCHES BEGIN WAIT

RESPONSE:

ACTION:

1 X 1

Abort the job

'NEW'

Start a new deferred tape

DISMOUNT WEEKLY FROM 080

RESPONSE: 1) Dismount tape as directed

2) 'C' - New Line

! MES -- MOUNT RESULTS TAPE ON TO

RESPONSE: 1) Mount tape as directed -- ring in

2) 'C' - New Line

! PAU -- VERIFY RESULTS TAPE MOUNTED ON TO, RING IN *

RESPONSE: 'C' - New Line

! PAU -- DISMOUNT ALL TAPES *

RESPONSE: 1) Dismount tapes as directed - remove the rings

2) 'C' - New Line

VIII.4

PROGRAMMED ABNORMAL COMPLETION
- MDBUPD will terminate abnormally via a CALL,9 3
instruction under the following conditions. The message
printed out to signal the abort is included in each case.

MESSAGE REASON

'ERROR READING MASTER
DATA BASE'

four possible reasons:l. Invalid logical file or block no.

2. Permanent I/O error

Invalid Index

4. End-of-file delimiter read

'ERROR REPLACING MASTER
DB RECORD'

three possible reasons:
1. OCLC index entry found
 occupied

2. Could not replace Bib. record
3. Could not replace an index

'ERROR DELETING MASTER
DB RECORD'

three possible reasons:

1. Invalid index

2. Permanent I/O error

3. End-of-file delimiter read

'ERROR ADDING MASTER
DB RECORD'

three possible reasons:

1. OCLC index entry found occupied

Could not add Bib. record
 Could not add an index

3. DIAGNOSTICS

MESSAGE

REASON

NON-NUMERIC X ' ' in POSITION X ' '

There was an error in converting from ASCII to Binary

LRECL () DOES NOT EQUAL PRECL ()

Record length does not equal length of actual data read

ILLEGAL CHARACTER X ' '
IN POSITION _

Three possible reasons:

1. Illegal encoding level

2. Bytes 18-23 of the MARC leader are not all blank or of the form ' 4500'.

3. Bytes 6-11 of the MARC leader are not of the form 'AM 22'

BADDR INCORRECT LENGTH MODULO 12 of the Base address does not equal 1

FIELD TERMINATOR
MISSING IN POSITION

Field terminator is missing at the end of the directory

VIII.5

MESS AGE	REASON
RECORD TERMINATOR MISSING IN POSITION _	Record terminator is missing at the end of the record
ILLEGAL TAG IN POSITION _	Two possible reasons: 1. Tag is too big 2. Tag is not in table of legal tags
TOO MANY FIELDS	There are more than 50 fields in the record
MASTER RECORD MISSING CANNOT DELETE	Record status equals 'D' but there is not master record to delete
MASTER RECORD PRESENT CANNOT ADD	This record is already on the master data base file, log it as a duplicate
MASTER RECORD MISSING STATUS CHANGED TO NEW	If the status of the record is not 'N' and no existing record was found, the status is changed to 'N'.
001 FIELD IS NOT FIRST	The 001 field must be the first field in the record
001 FIELD INCORRECT LENGTH	The 001 field must be at least 13 bytes and not more than 30 bytes
NON-MARC CHARACTER X ' ' IN POSITION (FIELD)	An Invalid character was returned when converting from ASCII to EBCDIC
NON-NUMERIC IN LC CARD NUMBER	The LC card number must be all numeric
008 FIELD IS NOT SECOND	The 008 field must be the second field in the record
008 FIELD INCORRECT LENGTH	The 008 field must be 41 bytes including the field terminator

VIII.6

MESSAGE

INVALID DATA IN ELEMENT ' ' OF 008 FIELD

RECORD HAS FEWER THAN 3 FIELDS

FIELD IS TOO SHORT

FIELD IS SHORTER THAN EXPECTED

INVALID FIRST INDICATOR
X ' ' IN POSITION ' '
(FIELD)

X' 'IN POSITION'' FIELD)

SUBFIELD DELIMITER IS NOT FIRST IN POSITION ____ (FIELD)

FIELD TERMINATOR MISSING IN POSITION .__ (FIELD)

ILLEGAL SUBFIELD CODE X ' 'IN POSITION.... (FIELD)

FIELD OR REC'D TERMINA TOR END'D IN POSITION BEFORE END OF

OBSOLETE TAG CHANGED TO REASON

The 008 field of the MARC record contains invalid data

Every record must have at least 3 fields

Every field must be at least 5 bytes long

The field is shorter than minimum length required for that field

The first indicator for this field is not one of the valid entries in the table 'IND1'.

INVALID SECOND INDICATOR

X' 'IN POSITION' ' The second indicator for this field is not one of the valid entries in the table 'IND2'.

> Each data element in a field must begin with a subfield delimiter (X'FC)

If the field terminator (X 'FD') is missing, provide one.

The subfield code is not one of the valid entries for this field in the table 'SFLD'

The field terminator (X 'FD') or the record terminator (X 'FC') are encountered before the actual end of field

The 652 field is obsolete and will be changed to a 651. The 750 field is obsolete and will be changed to a 710.

VIII.7

MESSAGE

\$a SUBFIELD IS NOT FIRST IN _ FIELD

CONTENTS OF 050 FIELD CAN'T BE PARSED

ILLEGAL STATUS CHARACTER
X ' ' CHANGED TO 'N'

ENCODING LEVEL CHANGED TO 'E'

ENCODING LEVEL CHANGED TO 'W'

FIELD OCCURS ____

REASON

The first subfield for every field must be a \$a subfield

The first indicator of the 050 (LC call number) field is not equal to 'l' (the book is in LC), but the call number is not valid.

The status of the MARC record is not one of the valid codes (D,N,C,P) so it is changed to 'N'.

The encoding level changed to 'E' on every record that has an error and is dumped to the 'RESULTS' area.

The encoding level is changed to 'W' on every record that has a warning message associated with it.

The field occurs less than the minimum or more than the maximum number of allowable times as indicated in the tables 'MINCNT' and 'MAXCNT'

- 4. Parameter Cards Required none
- 5. Example of Output next page

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VIII.12

APPENDIX C

DETAILED DESCRIPTION OF INTERNAL

SUBROUTINES



VIII.13

:CBS1234

This routine is used to compare bytes for equal. Upon entry to this routine, R1 has the number of bytes to be checked, R2 has the byte address of the record, R3 has the byte address of the field to be checked. R7 is the link register. At exit, R2 is pointing to the next byte of the record. If the two fields are equal, the condition is set to zero.

This routine is used to translate a field to EBCDIC and hexadecimal and move it to output buffers. The output buffer for the EBCDIC translation is called 'TXTFLD'; for the hexadecimal translation, it is called 'HEXFLD'. The characters are converted and moved 32 bytes at a time. The link register is R9. Upon entry, R2 has the byte address of the field to be translated, and R3 has the length of the field.

This routine is used to check the access keys for a particular MARC record against the existing access keys for the other bibliographic records. Before branching to this routine, an FPT is set up in the following manner:

SCHFPT DATA 0,0,0, SCHWORK, OCL NUMBER

Where the first word is for the completion status and function code; the second word is the logical file number; the third word is either the title key or the author-title key; the fourth word is the word address of the work area; the fifth word is the OCLC number.

The link register to this routine is R5. A description of the

The link register to this routine is R5. A description of the processes of this routine are given in Section IV - - FUNCTIONS.

This routine well cause a troublesome record to be copied onto the deferred tape. The routine picks up the beginning address of the record from the location 'RECORG' and picks up the record length from the location 'RECLN'. The routine then sets up a 'copy' FPT and issues the copy command.

This routine causes the error message to be logged. R9 is the link register to this routine. R8 has the address of the error message to be used. This routine sets up the required parameters and links to the external sub-routine, 'LOGERR'.

This routine causes the worning messages to be logged. R9 is the link register to this routine. R8 is set with the address of the warning message to be used. This routine sets up the required parameters and links to the external sub-routine, 'LOGWAR'.

VIII.14
APPENDIX D

ADDITIONAL SUBROUTINE DOCUMENTATION

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PROGRAM. MDBUPD SUBROUTINI: CASEB

I. FUNCTIONS

The external subroutine 'CASEB' is used to convert ASCII data to EBCDIC. The address of the parameters needed for this subroutine is passed in R8.

PROGRAM: MDBUPD SUBROUTINE: CASEB

II. SOFTWARE INTERFACE

A. Linkage

LI,R8 CASEBF BAL,R7 CASEB

B. Parameter List Description

CASEBF RES 1 number of bytes to be converted RES 1 beginning address of data RES 1 beginning address of storage area RES 1 completion status

C. Return Codes

The status of the convert operation is returned in the fourth word of the parameter list.

STATUS = X'80000000' - Normal completion; all characters were legal = X'C0010000' - Abnormal completion

- D. Other Entry Points none
- E. OCLC Subroutines Referenced none
- F. OCLC Procedures Referenced none

III. DESCRIPTION OF SPECIAL STORAGE AREAS, SWITCHES, AND TABLES ASEBTBL

The conversion from ASCII to EBCDIC is accomplished with this one large table. Using the ASCII value of the character as an index, the corresponding EBCDIC value is retrieved from this table. If the corresponding table entry is a '0', the character is considered illegal. VIII.17

PROGRAM: MDBUPD SUBROUTINE: CASBI

I. FUNCTIONS

The external subroutine CASBI is used to convert numeric data which is in ASCII format to Binary format. The ASCII character is first checked to be numeric (between the limits of X'30' and X'39'), and is then converted to binary.

VIII.18

PROGRAM: MDBUPD SUBROUTINE: CASBI

II. SOFTWARE INTERFACE

A. Linkage

LI,R8 CASBI5 BAL,R7 CASBI

B. Parameter List Description

The address of the three word parameter list is passed to this subroutine in R8.

RES 1 number of bytes to be converted

RES 1 beginning address of field to be converted

RES 1 completion status

C. Return Codes

The status of the convert operation is returned in the third word of the parameter list.

STATUS = X'80000000' Normal completion = X'C0010000' Abnormal completion; character to be converted is not numeric

D. Other Entry Points

CEBBI - This entry point converts numeric data in EBCDIC format to Binary format.

- E. OCLC Subroutines Referenced none
- F. OCLC Procedures Referenced none

VIII.19 SUBROUTINE: MDBUPDLG

J. FUNCTIONS

The external subroutine 'MDBUPDLG' is used as the logging routine for the program MDBUPD only. MDBUPDLG is a program of subroutines as follows:

Name of subroutine	<u>Function</u>
LOGMSG	type and log a text message.
LOGTEXT	log a text message
LOGERR	log a message with the
	preface 'ERROR'
LOGWAR	log a message with the
LOGADD	preface 'WARNING' log the LC card number
LOGADD	and the word 'ADDED'
LOGREP	log the LC card number
	and the word 'REPLACED'
LOGDEL	log the LC card number
1.00PT 1	and the word 'DELETED'
LOGREJ	<pre>log the LC card number and the word 'REJECTED'</pre>
LOGIGN	log the LC card number
200101	and the word 'IGNORED'
LOGPAGE	write the previous line
	and supply the format
	control character to
LOGDEF	eject the page log the LC card number
LOGDET	and the word 'DEFERRED'
LOGDUMP	log the message to be
	listed on the DO device
	(teletype)
LOGPUNCH	log the message to be
	listed on the SO device (card punch)
	(card punch)

MDBUPDLG begins with an indexable branch table which branches to one of these routines. When a message is 'hogged', it is written on the RAD area assigned by MDBUPD. The RAD file will later be used to print copies of the messages on the appropriate devices.

SUBROUTINE: MDBUPDLG

VIII.20

II. SOFTWARE INTERFACE

A. Linkage

LOGTEXT EQU MDBUPDLG + 1

LI,R8 MSGNPARNS BAL,R7 LOGTEXT

B. Parameter List Description
R8 is set up with the address of the parameter list
required to format the message. Each parameter list
must be at least two words long. Every word except
the last word is of the format:

GEN, 8, 24	FC,BA (message)
rc= Function Code	Purpose
1	single message is to be logged
2	message is to be converted to hexadecimal before being logged
3	message is to be converted to EBCDIC before being logged

The last word of the parameter list must be a '0' to indicate to MDBUPDLG that the end of the parameter list has been reached. For additional documentation and examples, see the APPENDIX, Section E, under the procedure description for 'MSG'.

- C. Return Codes No completion codes are set. The return is made back to the calling program through R7.
- D. Other Entry Points
 None
- E. OCLC Subroutines Referenced \$MBS - - Move Byte String (described on page VIII.28)

CBIEB - - Convert Binary to EBCDIC (described on page VIII.49)

F. OCLC Procedures Referenced



PROGRAM: MDBUPD SUBROUTINE: MDBUPDLG

III. DESCRIPTION OF SPECIAL STORAGE AREAS, SWITCHES, AND TABLES

Upon entry to MDBUPDLG, there is an indexable branch table of routines. This table effectively produces the same result as having separate entry points. A branch is taken from this table to the appropriate routine.

IV. INTERNAL SUBROUTINE DESCRIPTION

CBIHE12 - - This routine converts one byte in binary format to 2 digits in hexadecimal format. The link register to this routine is R7.

PURGLINE -This routine is used to test the status of the buffer, print the previous line if there is one, clear out the line image and re-set the buffer status. A buffer status of '-1' indicates that the buffer is ready to go. A status of '0' indicates that the buffer is empty. A buffer status of anything else will cause the previous line to be written. The link register to this routine is R5.

PROGRAM: MDBUPD SUBROUTINE: OPENMARC

VIII.22

I. FUNCTIONS

The external subroutines OPENMARC, CLOSE MARC, and READMARC are used to perform the MARC tape input operation.

The external subroutine OPEN MARC sets up the parameters needed for the subroutine TAPEIO (described on page VIII.53).

TAPETO performs the operation of reading the MARC tape

input.

OPENMARC sets up the two function parameter tables (FPT's) needed to perform this read operation. The first FPT is for the read operation itself; the second FPT is used to sense the device status. OPENMARC also sets up Rl with the address of a work area and R8 with the address of the parameters needed for TAPEIO.

At its alternate entry point, READMARC, OPENMARC actually reads the record by means of the subroutine TAPEIO. READMARC exits with the length of the record in Rl and the byte address of the record in R2. The return to the calling program is made either 0,1,2,or 3 instructions past the calling instruction depending upon whether the record read was a header label, a MARC record, a trailer label, or the end of a particular file, respectively.

At its alternate entry point, CLOSEMARC, OPENMARC sets up the tape for the next record. If there was an end of file, the tape is unloaded, otherwise CLOSEMARC causes TAPEIO to back space over the last record read.

PROGRAM: MDBUPD SUBROUTINE: OPENMARC

VIII.23

II. SOFTWARE INTERFACE

A. Linkage

The calling sequence for OPENMARC is as follows:

LI,R8 X'80' device address needed for the FPT's

BAL, R7 OPENMARC

B. Parameter List Description

None

C. Return Codes

None

D. Other Entry Points

READMARC CLOSEMARC

E. OCLC Subroutines Referenced

TAPEIO (Page VIII.53)

F. OCLC Procedures Referenced

None

VIII.24

II. SOFTWARE INTERFACE

A. Linkage

The calling sequence for READMARC is as follows:

BAL, R7	READMARC
B	File 1 header label
В	File 2 data
В	File 3 trailer label
Bal,R7	CLOSEMARC done with that EOF

Parameter List Description

None

C. Return Codes

None

D. Other Entry Points

None

OCLC Subroutines Referenced

LOGMSG (page VIII.19) LOGWAR (page VIII.19)

F. OCLC Procedures Referenced

None

PROGRAM: MDBOPD SUBROUTINE: CLOSEMARC

II. SOFTWARE INTERFACE

A. Linkage

BAL, R7 CLOSEMARC

B. Parameter List Description

None

C. Return Codes

None

D. Other Entry Points

None

E. OCLC Subroutines Referenced
TAPEIO (page VIII.53)

F. OCLC Procedures Referenced

None

PROGRAM: MDBUPD
SUBROUTINE: PACK, UNPK

I. FUNCTIONS

These external subroutines are used to Pack and Unpack numeric data. The characters are first checked to be numeric and are then either packed or unpacked depending on the entry point.

VIII.27

PROGRAM: MDBUPD SUBROUTINE: PACK, UMPI

II. SOFTWARE INTERFACE

A. Linkage

LI,R8 PACKPARM BAL,R7 PACK

B. Parameter List Description

The address of the 4-word parameter list is passed to these routines in R8.

RES 1 byte address of field to be packed

RES 1 number of bytes to convert

RES 1 byte address of storage area

RES 1 completion status

C. Return Codes

The status of the conversion is returned in the fourth word of the parameter list

STATUS = X'80000000' - Normal completion = X'C0010000' - Abnormal completion; character to be converted is non-numeric

D. Other Entry Points

UNPK - - This entry point is used to unpack data.

The parameter list is the same as for PACK.

The return code for a normal completion is the same. There is no abnormal completion.

E. OCLC Subroutines Referenced

NDX123 - This routine is used to check for valid numeric characters for the PACK routine. NDX123 is described more thoroughly on page .

F. OCLC Procedures Referenced - none

III. DESCRIPTION OF SPECIAL STORAGE AREAS, SWITCHES, AND TABLES

PTBL - This is a table of valid numeric characters for the PACK routine.

PROGRAM: MDBUPD SUBROUTINE: \$MBS

VIII.28

I. FUNCTIONS

This external subroutine is used to move byte strings. If the address of the field to be copied and the address of the location for the output are not both word aligned, they are adjusted to compensate. \$MBSS is used to move less than 15 bytes.



VIII.29 PROGRAM: MDBUPD SUBROUTINE: \$MBS

II. SOFTWARE INTERFACE

A. Linkage

BAL, R7 \$MBS

B. Parameter List Description

Enter with the number of bytes to be moved in R1. The beginning byte address of the field must be R2. The byte address of the location where the field is to be moved must be in R3.

C. Return Codes

The return is made back to the calling program through R7 with no completion status posted.

D. Other Entry Points

\$MBSS - This entry point is used when 14 bytes or less are to be moved. There is no check for the word alignment of the addresses.

- E. OCLC Subroutines Referenced none
- F. OCLC Procedures Referenced none

PROGRAM: NDBUPD SUBROUTINE: NDX123

I. FUNCTIONS

This external subroutine is used to search for a particular character (byte) in a list. The search is performed form the end of the list and the index used to find the character is returned to the calling program.

VIII.31 PROGRAM: MDBUPD SUBROUTINE: NDX123

II. SOFTWARE INTERFACE

A. Linkage
BAL,R7 NDX123

B. Parameter List Description

Enter with the byte to be searched for in R2 and the byte address of a list in R3. The first entry of the list must be the number of entries in the list.

C. Return Code

There are no completion codes returned to the program. Return to the calling program is made through R7. The index used to find the character in the list is returned in R1. R1 is '0' if the character was not found. The search is performed from right to left.

- D. Other Entry Points none
- E. OCLC Subroutines Referenced none
- F. OCLC Procedures Referenced none

PROGRAM: MDBUPD SUBROUTINE: ADDMAST

I. FUNCTIONS

The external subroutine 'ADDMAST' is used to add and delete records from the master data base. If the OCLC file entry is not occupied, the search keys are extracted for this record and the indexes are added to the index file. The record is also added to the data base.

If the OCLC file entry is occupied, a check is made to determine if the subroutine 'DELTMAST' had been called. 'DELTMAST' is another entry point to the subroutine 'ADDMAST'. If the OCLC file entry is occupied and 'DELTMAST' is not called, this constitutes an error and the OCLC file entry is returned and nothing is added.

Another entry point to 'ADDMAST' is 'RADDMAST' which will re-add a bibliographic record and its indexes.

PROGRAM: MDBUPD SUBROUTINE: ADDMAST

VIII.33

II. SOFTWARE INTERFACE

A. Linkage

LI,R8 ADDPARM BAL,R7 ADDMAST

B. Parameter List Description

RES 1 completion status

RES 1 word address of the bibliographic record

RES 1 WA (WORKAREA)

RES 1 word address of OCLC file entry and indexes

RES 1 WA(index)

Where WORKAREA is a 312 word double word alinged workarea. The workarea is 313 words if it is not double word aligned. The fifth word is used only for DELTMAST and RADDMAST.

C. Return Codes

The status of the addition operation is returned in the first half-word of the parameter list.

STATUS = X'8000' - Normal completion

= X'C000' - Abnormal completion; OCLC index found occupied, nothing has been

added to the data base
- Abnormal completion; could

= X'C001' - Abnormal completion; could not add the Bib. record, no index were added to the data base

= X'C001' + INDEX FILE NO.--Abnormal completion; could not

add an index, the Bib. record and/or other indexes were added

D. Other Entry Points

DELTMAST - This entry point is used to delete a record and its indexes.

RADDMAST - This entry point is used to re-add a record and its indexes.

E. OCLC Subroutines Referenced

INDEXER - This external subroutine (described more fully elsewhere in this section) is used to set up the access keys for a particular record.

F. OCLC Procedures Referenced - none

PROGRAM: MDBUPD SUBROUTINE: LCCN000

VIII.34

FUNCTIONS

LCN000 breaks a call number into components to aid in the formatting of the call number. A code set at the entry point determines the type of call number which has been input. At LCCN000, the code is set to zero; at LCCN000B, the code is set to four; at LCCN000D, the code is set to two; and at LCCN000T, the code is set to one. Upon entry to either LCCN000, LCCN000B, LCCN000D, or LCCN000T, R8 points to a parameter list which contains the byte address of the input call number. The second word of the parameter list is the byte address of a work area.

LCCN000 scans and interrogates the call number using a set of internal procedures. The components to be broken down by LCCN000 are as follows:

- 0 A string of alphas, followed by a blank, which precedes the rest of the call number.
- 1 Alpha portion of the Library of Congress class number.
- 2 Numeric portion of the Library of Congress class number.
- 3 Decimal portion of the Library of Congress class number.
- 4 Date type element that precedes the first Cutter. In reality this is any field preceded by a blank which precedes the first Cutter.
- 5 First Cutter. It must begin with a decimal followed by an alpha string and a numeric string.
- 6 Date type element that precedes the second Cutter. In reality this is any field preceded by a blank which precedes the second Cutter.
- 7 Second Cutter. It is preceded by a decimal if component 6 is present; otherwise it immediately follows the first Cutter. The second Cutter is a numeric string followed by an alpha string.
- 8-254 These components are variable in format. Bit 7 of the component number set to 1 indicates an element followed by a comma.

Component 255 always marks the end of the call number in the work area.

When an error is encountered in the format of the call number, the condition code is set and control is returned to CNVT.

As each component of the call number is found, it is stored in the workarea preceded by its component number. When the end of the call number field is encountered, if all required components are present, control is returned normally.

PROCIAM: MDBUPD SUBFOUTINE: LCCN000

VIII.35

SOFTWARE INTERFACE

A. LINKAGE

LI,R8 LCCNPARM
BAL,R7 LCCN000 (or LCCN000B, LCCN000D, or LCCN000T)

B. PARAMETER LIST DESCRIPTION

LCCNPARM DATA BA(050 FIELD) OF 090 FIELD IF
PRESENT
DATA BA(WORKAREA) AREA WHERE FORMATTED
CALL NO. WILL BE RETURNED

C. RETURN CODES

LCCN000, LCCN000B, LCCN000D, & LCCN000T set the condition code as follows:

CC1 - 4 = 0 NORMAL RETURN
CC3 = 1 DEFAULT TO UNIT CARD

CC4 = 1 BREAKDOWN WAS UNSUCCESSIUL

D. OTHER ENTRY POINTS

LCCN000B LCCN000D LCCN000T

E. OCLC SUBROUTINES REFERENCED - none

F. OCLC PROCEDURES REFERENCED -

BACK SPAN POWER ANY SAVE MARK OPT ALPHA NUMER POINT

NEXT

Different name values for the same procedure

TERMN COMMA_ BREAK

BLANK

PROGRAM: MDBUPD SUBROUTINE: LCCNOOO

VIII.36

PROCEDURE: NEXT

PROCEDURE DESCRIPTION

PURPOSE: NEXT generates a BAL, R7: NXT where: NXT is an internal subroutine of LCCHOOO

NEXT FORMAT:

No operands are required

EXAMPLE:

NEXT

BAL, R7 :NXT

PROCRAM: MDBUPD SUBROUTINE: LCCN000 PROCEDURE: BACK

VIII.37

PROCEDURE DESCRIPTION

BACK sets up a parameter value and provides a PURPOSE:

link via R7 to the internal subroutine :BCK.

If the value of AF(1) is less than two, a BAL,R7

:BCK-1 is generated. If AF(1) is loaded into

R14 and a BAL,R7 :BCK is generated.

BACK AF(1) FORMAT:

EXAMPLE 1:

Back up one character.

WHERE AL=1 BACK AL

:BCK+1 BAL, R7

EXAMPLE 2:

Back up four characters

where PO=4 PO BACK

4 LI,R14 :BCK BAL, R7

PROCRAM: MDBUBD

SUBROUTINE: LCCN000 PROCEDURE: SPAN

PROCEDURE DESCRIPTION

SPAN sets up a parameter value and links to PURPOSE:

VIII.38

internal subroutine: PWR-1 via R7. R14 is loaded with the argument field. Its range of values is the table CHARVAL.

FORMAT: SPAN AF(1)

EXAMPLE: Scan to the next non-numeric character.

SPAN NU where NU = char value for a

numeric in CHARVAL

LI,14

BAL, R7 : PWR -1

SUBROUTINE: LCCNOOO PROCEDURE: POWER

VIII.39

PROCEDURE DESCRIPTION

PURPOSE: POWER sets up a counter in R13 from AF(2) and a value in R14 from AF(1); then links to the internal subroutine : PWR. On return from : PWR, an unconditional branch is taken. The effective address of the branch is determined by the value of AI(3) and AF(5). If AF(3) =1 and AF(5) = 0 a B \$+2 is generated. If LF(3) = 0 and AF(5) = 1, three instructions are generated:

B \$+2 B \$+3 :RST BAL,R7

If AF(5) =1 an unconditional branch to AF(4) is generated.

FORMAT: POWER AF(1), AF(2), AF(3), AF(4), AF(5)

EXAMPLE: Scan to see if there is a blank in the next 4 characters. If so, branch to T4. If not, restore R1 and branch to T4.

BL, PO, NO, T4 POWER + LI,R13 + LI,R14 8 : PWR + BAL, R7 \$+2 + B \$+3 + B + BAL, R7 :RST **T**4

EXAMPLE 2: Scan to see if there is a blank in the next four characters. If not, skip the branch to T4 and continue with the next sequential instruction. If so, branch to T4.

BL PO, YES, T4 POWER

+ LI,R13

+ LI,R14

+ B

:PWR + BAL, R7

\$+2 + B

T4 + B

PROGRAM: MDBUPD SUBROUTINE: LCCNOOO

PROCEDURE: ANY

VIII.40

PROCEDURE DESCRIPTION

PURPOSE: ANY compares the character value which is in R15 to a table value or a combination of table values [AF(1)]. The succeeding branch instructions are generated on the basis of AF(2) which has the value 0 or 1 and the presence or absence of AF(4). The effective address of the branch instruction is AF(3).

FORMAT: ANY AF(1), AF(2), AF(3), AF(4)

EXAMPLE: Is next character a period or a blank: ANY PO/BL,NO,ABT

+ CI,15 12 + BAZ ABT

> where PO = 4 BL = 8 NO = 1

> > Is the value in R15 4 or 8? If neither, branch to ABT, otherwise fall through to the next sequential instruction.

PROGRAM: MDBUPD SUBROUTINE: LCCNOOO PROCEDURE: SAVE

VIII.41

PROCEDURE DESCRIPTION

SAVE generates a STW,1 :SAVE instruction to save the pointer to the current location in the TEMP area. PURPOSE:

SAVE FORMAT:

SAVE EXAMPLE:

:SAVE STW,R1



PROGRAM: MDBUPD SUBROUTINE: LCCN000 PROCEDURE: MARK

VIII.42

PROCEDURE DESCRIPTION

PURPOSE: MARK sets up the component number and links to the routine :MRK which will move the component to WORKAREA.

MARK AF(1) FORMAT:

MARK 1 **EXAMPLE:**

LI,14 1

BAL, R7 :MRK

Mark component #1 and move it to the WORKAREA

PRO HAM: MDBUPD SUBFOUGIND: LOCKOOO

PROCEDURE: OPT

V]**I**].43

PROCEDURE DESCRIPTION

PURPOSE: OPT interrogates the next sequential character value. If it is not equal to AF(1) a branch is taken to \$\frac{1}{2}\$. If the character value is equal to AF(1), a BAL, R7 :NXT is taken.

FORMAT: OPT AF(1)

EXAMPLE: Is the next character a blank. If so, look at following character.

OPT BL CI,15 8 BAZ \$+2

BAL,R7 :NXT

SUBROULEND: LCCNOOO PROCEDURL: ALPHA

VIII.44

PROCEDURE DESCRIPTION

PURPOSE: ALPHA compares the character value in R15 to its name value shifted left one position (1**NAME). The shifted name value equals the alpha character value from the table CHARVAL. The conditions of the succeeding branch instruction are generated depending on the value of AF(1) which may be 0 or 1 and the presence or absence of AF(3). If AF(3) is absent, the effective address of the branch is AF(2). If the branch is not taken, the next sequential instruction is executed. If AF(3) is present the effective address of the generated branch is \$+3. If the branch is not taken, the next instruction is a BAL,R7:RST followed by an unconditional branch to AF(2).

There are five alternate names that may be used to invoke this procedure.

NUMER - its name value equals the numeric character value

POINT - its name value cquals the character value for a period

BLANK - its name value equals the character value for a blank

TERMN - its name value equals the character value for a field delimiter

COMMA - its name value equals the character value for a comma

These procedures are used to interrogate the value of a character.

FORMAT: ALPHA AF(1), AF(2), AF(3)

EXAMPLE 1: Is the character in question numeric. If not, declare an error.

NUMER NO, ABT + CI, 15 2 + BAZ ABT

where no = 0

EXAMPLE 2: Is the character alpha. If it is skip around; if not restore Rl to previous character and branch to T8

ALPHA NO,T8,REST + CI,15 1 + BANZ \$+3 + BAL,7 :RST + B T8

where no = 0 and REST = 1

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PROGRAM: MDBUPD SUBROUTINE: LCCNOOO

PROCEDURE: BREAK

PROCEDURE DESCRIPTION

PURPOSE:

BREAK sets up a parameter value and links to the internal subroutine, :BRK. Rl4 is loaded with AF(1). Its range of values is equal to the range of values in the table CHARVAL.

FORMAT:

BREAK AF(1)

EXAMPLE:

Scan to find the next numeric character.

BREAK NU where NU = CHAR. value for a numeric is CHAFVAL

LI,14

BAL, R7 :BRK VIII.46 PROGRA

PROGRAM: MDBUPD SUBROUTINE: INDEXER

I. FUNCTIONS

The external subroutine 'INDEXER' scans the given bibliographic record. It returns a 6 - byte (left-justified) authortitle access key in the third and fourth words of the workarea which is provided by the calling program. It also returns a 6 - byte (left-justified) title-only access key in the first and second words of the workarea. It also returns the 8 - byte OCLC semi-packed representation of the first 12 characters of the LC card number in the fifth and sixth words of the work area.

INDEXER also prepares and stores three pointers at word displacements 10,11, and 12 in the OCLC bibliographic record (see Bibliographic record format - page 14). The content of these pointers is as follows:

- 1. First Pointer -Bits 0 15: Byte length of first part of the
 author string (1XX field).
 Bits 16 31: Byte displacement to the first
 author substring from the end of the leader.
- 2. Second Pointer -- Bits 0 15: Byte length of the second part of the author string Bits 16 31: Byte displacement to the second author, string from the end of the leader.
- 3. Third Pointer -Bits 0 15: Byte length of the title (245 field)
 string.
 Bits. 16 31: Byte displacement to the first character
 of the title string from the end of the leader.

PROGRAM: MDBUPD
SUBROUTINE: INDEXER

VIII.47

II. SOFTWARE INTERFACE

A. Linkage
LI,R6 XRPAPMS
BAL,R7 INDEXER

B. Parameter List Description

RES 1 word address of the cell containing the word address of the record RES 1 WA(WORKAREA)

where WORKAREA is 14 words and couble word aligned. The work area is set up as follows:

WKAREA	RES	0	
3111	RES	2	title access key returned here
33KEY	RES	2	<pre>author/title access key returned here</pre>
LCCARONO	RES	2	LC card number returned here
SCRATCH	RES	8	scratch area

C. Return Codes

If the title cannot be parsed, is missing, or appears after the 260 field, the title portion of the author/title key will be 3 blanks, and the title only key will be 6 blanks. There is no returned status.

D. Other Entry Points

PULLKEYS - This entry is used when the access keys are to be set up and returned but the pointers are not to be prepared or stored.

- E. OCLC Subroutines Referenced None
- F. OCLC Procedures Referenced None

PROGRAM: MDBUPD SUBROUTINE: INDEXER

VIII.48

III. DESCRIPTION OF SPECIAL STORAGE AREAS, SWITCHES, AND TABLES

- A. Special Switches None
- B. Special Storage Areas None
- C. Special Tables

ALLOWED -- This is a byte table of characters values that are remitted in the keys. If the byte is a '', it'is an allowed character. The table is indexed by the character itself.

PROGRAM: MDBUPD SUBROUTINE: CBIEB

VIII.49

FUNCTIONS

CBIEB converts variable-length binary fields to EBCDIC. The user specifies what sign is to be given to the result and what fill character is to be used in padding the field. Error conditions are encountered when there is an overflow condition in the output field or when the output field is not large enough to contain the sign. The return code is posted in the first two bytes of the parameter list upon return.

PROGRAM: MDBUPD SUBROUTINE: CBIEB

VIII.50

SOFTWARE INTERFACE

A. LINKAGE

The calling sequence is

LI,R8 CBPARMS BAL,R7 CBIEB

B. PARAMETER LIST DESCRIPTION

CBPARMS

DATA

BA(BINARY FIELD TO BE CONVERTED)

DATA,1

DATA

BA(OUTPUT FIELD)

C. RETURN CODES

The return code is found in bytes 0 and 1 of CBPARMS.

BYTE0 - X'80' Normal completion
BYTE1 = -X'00'
BYTE0 = X'CO' ERROR
BYTE1 = X'01' NO ROOM IN FIELD FOR SIGN
BYTE0 = X'CO' ERROR
BYTE1 = X'02' FIELD OVERFLCW

. OTHER ENTRY POINTS - none

OCLC SUBROUTINES REFERENCED - none
OCLC PROCEDRURES REFERENCED - none



PROGRAM: MDBUPD SUBROUTINE: LOGMSG

VIII.51

FUNCTIONS

LOGMSG formats and prints a log entry for each OCLC record number which is selected for catalog card production. A log entry on the CNVT Log consists of the OCLC control number, the color code, and the holding library code followed by a statistical code showing whether the record was selected (SLD) or rejected (RJD). LOGMSG also prints diagnostic messages when required by CNVT.



VIII.52

SOFTWARE INTERFACE

A. LINKAGE

Control is transferred from CNVT via a

BAL, R7 LOGMSG

This instruction must be immediately followed by the parameter list described below. Upon entry to LOGMSG,R7 points to the parameter list.

B. PARAMETER LIST DESCRIPTION

The following list of parameters must be passed to LOBMSG.

GEN, 8, 24

DATA

DATA

DATA

DATA

DATA

WA(UNPACKED LC CARD NUMBER)

WA(COLOR CODE)

WA(LIBRARY CODE)

Where the byte indicator 'FUN' may assume the following values:

FUN = 0 Print message only, do no logging.

- = 1 Log as selected before printing a message.
- = 2 Log as missing before printing a message.
- = 3 Log as rejected before printing a message.
- = 15 Eject page when printing a message.

No message will be pri ted if BA(MESSAGE) is equal to zero.

- C. RETURN CODES none
- D. OTHER ENTRY POINTS none
- E. OCLC SUBROUTINES REFERENCED none
- F. OCI.C PROCEDURES REFERENCED none

SUBROUTINE: TAPEIO

VIII.53

FUNCTIONS

TAPEIO is a general purpose input/output subroutine which performs the following functions depending on a function code passed from the calling program.

FUNCTION CODE	FUNCTION
X'00'	READ
01	WRITE
02	READ REVERSE
03	WEOF
04	SKIP ONE RECORD FORWARD
05	SKIP ONE RECORD BACKWARD
06	SKIP ONE FILE FORWARD
07	SKIP ONE FILE BACKWARD
08	REWIND (ONLINE)
09	UNLOAD

TAPEIO sets up the FPT to be used in IOEX CAL2 from parameters passed by the calling program. If the function required does not involve data transfer (in the range of codes 3-9), the only parameters needed by TAPEIO are the function code, the unit address, and an event word. If data transfer is to be performed (codes 0,1,2), TAPEIO must also have the address of a buffer and the length of the data to be read or written. Upon entry to TAPEIO, general register 1 should be pointing to a user-defined work area on a double word boundary.

If the function to be performed involves data transfer or is a WEOF, two function parameter tables (FPT's) are set up. The first FPT is for the operation requested; the second is used to sense the device status in the event the requested operation does not end normally. For non-data transfer functions, only one FPT is constructed.

TAPEIO contains its own end action routine, STDEA.

STDEA uses the Test Device (TDV) status returned by the IOEX
CAL2 to determine the end action required. If the I/O
operation terminated normally, the first byte of the event word
in the first FPT is set to X'80' and control is returned.

If the operation ended abnormally, the TDV status is
interrogated more closely to determine the exact result of
the operation.

A table of TDV status values and their meanings follows:

SUBROUTINE: TAPEIO

VIII.54

TDV STATUS	EXPLANATION
0200	NORMAL TERMINATION BEYOND END
0400	OF TAPE NORMAL TERMINATION AT BEGINNING OF TAPE
B87E	NORMAL TERMINATION
000E	IOP ERROR
0010	MEMORY ADDRESS ERROR
2000	WRITE PROTECT VIOLATION
1000	END OF FIFE
8000	DATA OVERRUN
0 800	NON-CORRECTABLE READ ERROR
0040	TRANSMISSION DATA ERROR
0029	TRANSMISSION MEMORY ERROR

A TDV status of 'B87E' initiates the return of a normal completion code (X'80') to the user. If the status is '1000', an end of file indication is returned. If the TDV status is '000E', '0010', or '2000', the error is not attributed to the I/O device; and no retry is attempted. If the status is one of the last four in the table, the retry count is interrogated. The retry count is arbitrarily set in TAPEIO to ten for data transfer operations (function codes 0-2) and WEOF (code 3) and is set to zero for non-data operations (codes 4-3). If the retry count for this operation is zero, an abnormal return code is posted, and control is returned to the calling program. If the retry count is greater than zero, retry procedures are initiated based on the type of I/O function that was attempted.

If the status is '0200' or '0400', a code is returned to indicate the position of the tape.

If the operation was a READ and the error is correctable (TDV status of '8000', '0040', or '0020'), the second FPT is pulled from the work area and used to sense the device. If the sense does not take, an unconditional backspace and retry are initiated; otherwise STDEA will alternately backspace, or forward space (depending on whether the READ was forward or reverse), sense, retry, and sense until either the retry count is zero or the I/O operation has been performed. If the retry count reaches zero before the operation has been terminated normally, the condition code returned is the result of the last retry.

If the operation was a READ but the error was declared non-correctable (TDV status '0800'), STDEA initiates an unconditional retry. It backspaces, or forward spaces if the operation was READ REVERSE, and attempts to READ again. The TDV status is interrogated after each retry of the READ. If the error status becomes correctable before the retry count is zero, STDEA will initiate sensing of the device and the correctable READ error procedure. In any case, retry continues until the operation is completed normally or the retry count reaches zero. If the retry count becomes zero before the operation has terminated normally the condition code returned is the result of the last retry.

SUBROUTINE: TAPEIO

VIII.55

If the operation was a WRITE or WEOF, STDEA automatically backspaces, senses, and attempts the operation again. This procedure continues until the I/O is complete or the retry count is zero. If the retry count reaches zero before the operation has been terminated normally, the condition code returned is the result of the last retry.

At its alternate entry point, TAPEWAIT, TAPEIO checks for completion of an I/O operation performed by TAPEIO. If the event is not complete TAPEWAIT issues a CAL2,9 0 to wait for completion. When the event is posted complete, the status is interrogated. If the completion is normal (X'80'), control is returned to the return address plus one. If the completion is abnormal (X'CO') control is returned at the return address. In either case BYTEO of the event word is returned in bits 24-31 of R8.

PROGRAM: MDBUPD SUBPOUTINE: TAPEIO

SOFTWARE INTERFACE

A. LINKAGE

The calling sequence for TAPEIO is as follows:

LI,R1 WORKAREA LI,R8 PARMS BAL,R7 TAPEIO

Where WORKAREA is a 16-word storage are: aligned on a doubleword boundary.

B. PARAMETER LIST DESCRIPTION

For function codes 0, 1, 2

WORD 0	FUNCTION	DEVICE ADDRESS
WORD 1	BA (BUF	FER)
WORD 2	BYTE CO	UNT
WORD 3	EVENT STA	rus

For functions 3-9

WORD O	FUNCTION	DEV	ICE	ADDRESS
WORD 1	EVENT STA	ATUS		

c. RETURN CODES

"SORMAL COMPLETION: EVENTWORD BYTE 0 = X'30'
BYTE 1 = X'00'

ASNORMAL COMPLETION: EVENT WORD BYTE 0 = X'CO'

BYTE 1 = XX - CODE INDICATING NATURE OF ABNORMAL COMPLETION.

Possible event words for abnormal completion and their manings are listed below:



PROGRAM: MDBUPD SUBROUTINE: TAPEIO

VIII.56

EVENT WORD	TDV STATUS	MEANING
2001	0200	NORMAL TERMINATION BEYOND END OF TAPE MARKER
2002	0400	NORMAL TERMINATION AT BEGINNING OF TAPE
200A	000E	IOP ERROR
0009	0010	MEMORY ADDRESS ERROR
C008	2000	WRITE PROTECT VIOLATION
	1000	END OF FILE
C003	8000	DATA OVERRUN
C007 C004	0800	NON-CORRECTABLE READ , ERROR
C005	0040	TRANSMISSION DATA ERROR
C006 .	0020	TRANSMISSION MF RY ERROR
2200		UNIT UNRECOGNIZED
C00B		SOFTWARE ERROR

For codes C000-C003 and C008-C00B, no retry has been attempted. For codes C004-C007, retry has been attempted only if the function was a data transfer or WEOF.

- D. OTHER ENTRY POINTS TAPEWALT
- E. OCLC SUBROUTINES REFERENCED none
- F. OCLC PROCEDURES REPERLINCED none

SUBROUTINE: TALLIO

VIII.57

SOFTWARE INTERFACE (TAPEWALT)

A. LINKAGE

LI,R8 PARMS BAL,R7 TAPEWAIT

B. PARAMETER LIST DESCRIPTION

same as for TAPEIO

C. RETURN CODES:

BYTE 0 of the user provided EVENT WORD is returned in bits 24-31 of R8

- D. OTHER ENTRY POINTS none
- E. OCLC SUBROUTINES REFERENCED none
- F. OCLC PROCEPURES REFERENCED none

Trogram: MDBUPD

VII1.58

APPENDIX E

ADDITIONAL PROCEDURE DOCUMENTATION

TROGRAM: MDBUPD TROGEDURE: DTAG

PURPOSE:

DTAGS establishes the parameters for the table 'TAGS' which assigns an index to each field to be smed for all the other tables.

FORMAT:

DTAG AF(1)

EXAMPLE:

	DTAG DTAG DTAG	1 8 15	•				
+	DATA,1	0					
+	DATA,1	1		index	tor	001	fielu
+	DATA,1	0					
+	DATA,1	0					
+	DATA,1	0					
+	DATA,1	0					
+	DATA,1	0					
+	DATA,1	0					
+	DATA,1	2		index	tor	008	field

'RCGRAM: MDFUPD

PROCEDURE: MSG, HEX,

DIC, MEND

PROCEDURE DESCRIPTION

PURPOSE:

MSG established the parameters for the external subroutine 'MDBUPDLG'. The CNAME value of MSC is 1 and indicates to MDBUPDLG that a single message is to be logged. There are three alternate names for MSG.

- . HEX has a CNAME equal to 2 and indicates that the message is to be converted to Hexadecimal
 - DEC has a CNAME equal to 3 and indicates that the message is to be converted to FBCIDIC.
- MEND has a CNAME equal to 0 and indicates the end of the parameter list.

FORMAT:

AF(1) MSG

Example 1:

MSG71 MSG ECH1 HEX MSG72 MSG MEND

1, BA (MSG71) GEN, 8, 24 2, BA (ECH1) GEN, 8, 24 1. BA (MSG72) GEN, 8, 24 0

DATA

Example 2:

DEC ECV3 MSG75 MSG T.CV4 DEC MSG76 MSG MEND

3, BA (ECV3) GEN, 8, 24 1, BA (MSG75) GEN, 8, 24 3, BA (ECV4) GEN, 8, 24 3, BA (MSC75) GEN, 8, 24 DATA

VALIDATION PROCESSES PERFORMED BY OCLC ON THE MARC RECORDS

- 1. All data must be correct ASCII data.
- 2. The actual length of the record must equal the record length in the leader.
- 3. The Type of Record must be 'a' (lower case ASCII).
- 4. The Bibliographic Level must be 'm' (lower case ASCII).
- 5. 'BLAHKS' (position 8-9 in the leader) must be blank.
- 6. The Indicator Count must be 2.
- 7. The base address of the data must be a multiple of 12 (leader = 24, Directory = 12).
- 8. The Subfield Code Count must be 2.
- 9. There must be a field terminator (X'IE') at the end of the directory.
- 10. There must be a record terminator (X'lD') at the end of the record.
- 11. Leader positions 18-19 must be all blank.
- 12. The Entry Map in the Leader must be all blank or be of the form '4500'.
- 13. There can be no more than 50 fields in a record.
- 14. The value of the tag can not exceed '340'.
- 15. The value of the tag must be in the following list of valid tags:

003	0.00		
001	086	410	630
8 0 0	100	411	650
015	110	440	651
02 0	111	490	652
025	130	500	700
040	240	501	710
041	241	502	711
043	245	504	730
050	250	505	740
051	260	520	750
050	300	600	800
070	350	610	810
082	400	611	811
			840
			0,0

L

- 16. The record is rejected if the LC card number is not all a numeric.
 - 17. The Record Status must be one of the following: D (delete), NC (new), C (corrected), or P (full replacing CIP). If it is not one of the above, the Record Status is changed to N (new) and a warning is logged.
 - 18. The Encoding Level must be one of the following: 1 (sublevel 1), 8 (full replacing CIP), or blank (full level).
 - 19. The record is rejected if the 001 field is not the first field in the directory.
 - 20. The record is rejected if the 001 field is not at least 13 characters or is more than 30 characters long.
 - 21. The record is rejected if the 008 field is not the second entry in the directory.
 - 22. The record is rejected if the length of the 008 is not 41 characters including the field terminator.
 - 23. The Type of Publication Date Code must be one of the following:

 s (date is known), c (consists of two dates), n (date
 is unknown), r (previously published), m (multiple date),
 q (one or more digits are missing).
 - 24. The Country of Publication Code must be in the list of valid codes.
 - 25. The Illustration Codes must be one of the following:
 - a (illustration), b (maps), c (portraits), d (charts), e (plans), f (plates), g (music), h (facsimilės),
 - i (coates of arms), j (gene plogical tables), k (forms),
 - 1 (samples), m (phono disc), N = blank (no illustrations).
 - 26. Elements 11-15 of the 008 field (Conference, Festscrift, Index, Main Entry, and Fiction Indicators) must be either 0 or 1.
 - 27. The Government Publication Indicator must be 0.
 - 28. The Form of Reproduction Code must be one of the following:
 - a (Microfilm), b (Microfiche),
 c (Micropague), d (Large-print),
 - B = blank (not a reproduction).
 - 29. The Intellectual Level Code must be either 'j' or b = blank.

Validation Processes (cont.)

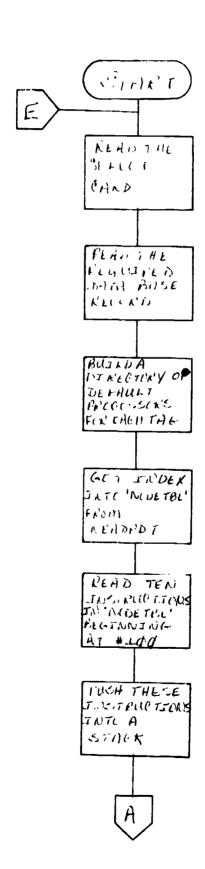
Page Three

- 30. The Form of Content Codes must be one of the following:
 - b (Bibliographies), c (Catalogs),
 - i (Indexes), a (Abstracts),
 - d (Dictionaries), e (Encyclopedias),
 - r (Directories), y (Yearbooks),
 - s (Statistics), h (Handbooks),
 - p (Programmed Testbooks), or
 - b = blank (not a specified form).
- 31. The Language Code must be in the list of valid language codes.
- 32. The Cataloging Source Cdoe must be one of the following:
 - a (National Agricultural Library),
 - b (National Library of Medicine),
 - c (Cooperative Cataloging), or
 - b = blank (Library of Congress
- 33. The Modified Record Indicator must be either d, s, x, or a blank.
- 34. The Biography Code must be one of the following:
 - a (Autobiography), b (Individual),
 - c (Collective), d (Contains biographical information),
 - or b = blank (not biographical).
- 35. The record is rejected if the directory has only 1 or 2 entries.
- 36. Every field must be at least five characters long.
- 37. The minimum byte length for the 020 field is 14.
- 38. The minimum byte length for the 025 field is 10.
- 39. The minimum byte length for the 040 and 043 fields is 12.
- 40. The minimum byte length for the 041 field is 11.
- #1. The minimum byte length for the 082 field is 6.
- 42. The minimum byte length for every other field (excluding 001, 008, 020, 025, 040, 041, 043, and 082 fields) is 7.
- 43. Check to see that fields 041, 050, 240, 241, 245, 260, 490, and 750 have a first indicator of 0 or 1.
- 44. Check to see that fields 110, 111, 410, 411, 505, 510, 611, 710, 711, 810, and 811 have a first indicator of 0, 1, or 2.
- 45. Check to see that fields 100, 400, 600, 700, and 800 have a first indicator of 0, 1, 2, or 3.

- 46. Check to see that the first indicator for every other field is a blank.
- 47. Check to see that the second indicator for the 100, 110, 111, 130, 400, 410, and 411 fields is a 0 or 1.
- 48. Check to see that the second indicator for the 700, 710, 711, 730, 740, and 750 fields is a 0, 1, or 2.
- 49. Check to see that the second indicator for the 600, 610, 611, 630, 650, 651, and 652 fields is a 0, 1, 2, 3, or 4.
- 50. Check to see that the second indicator for every other field is a blank.
- 51. Every field must begin with a subfield delimiter (X'1F').
- 52. Every field must end with a field terminator (X'FD').
- 53. Verify that the subfield codes for the 041, 050, 060, 070, and 250 fields are either 'a' or 'b'.
- 54. Verify that the subfield codes for the 051, 245, 260, and 300 fields are either 'a', 'b', or 'c'.
- 55. Verify that the subfield codes for the 100 field are either 'a'. 'b', 'c', 'd', 'e', 'k', or 't'.
- 56. Verify that the subfield codes for the 110 field are either a, b, e, k, or t.
- 57. Verify that the subfield codes for the lll field are either a, b, c, d, e, g, k, or t.
- 58. Verify that the subfield codes for the 130 field are either a or t.
- 59. Verify that the subfield codes for the 400 and 800 fields are either a, b, c, d, e, k, t, or v.
- 60. Verify that the subfield codes for the 410 and 810 fields are either a, b, e, k, t, or v.
- 61. Verify that the subfield codes for the 411 and 811 fields are either a, b, c, d, e, g, k, t, or v.
- 62. Verify that the subfield codes for the 440 and 840 fields are either a or v.
- 63. Verify that the subfield codes for the 600 field are either a, b, c, d, e, k, t, x, y, or z.
- 64. Verify that the subfield codes for the 610 field are either a, b, e, k, t, x, y, or z.
- 65. Verify that the subfield codes are the 611 field are either a, b, c, d, e, g, k, t, x, y, or x.



- 66. Verify that the subfield codes for the 630 field are either a, t, x, y, or z.
- 67. Verify that the subfield codes for the 650 and 651 fields are either a, b, x, y, or z.
- 68. Verify that the subfield codes for the 652 field are either a, x, y, or z.
- 69. Verify that the subfield codes for the 700 field are either a, b, c, d, e, k, t, or u.
- 70. Verify that the subfield codes for the 710 field are either a, b, e, k, t, or u.
- 71. Verify that the subfield codes for the 711 field are either a, b, c, d, e, g, k, t, or u.
- 72. Verify that the subfield codes for the 730 field are either a, t, or u.
- Verify that the subfield codes are 'a' for following fields: 73. (015 504) 043 350 505) (020 082 490 5201 086 500 (025 (040 240 501 740, 750) 241 502
- 74. A field terminator must come directly before the record terminator.
- 75. Verify that the 245 and 260 fields are present in every record.
- 76. Verify that the 025, 255, and all the fields from 400 to 840 do not occur more than 255 times in one record.
- 77. Varify that there are no more than two 050 fields in each a record.
- 78. /erify that all the other fields (all fields from 001 to 350 except 025, 050, and 255) do not occur more than once in each record.



rest¹

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