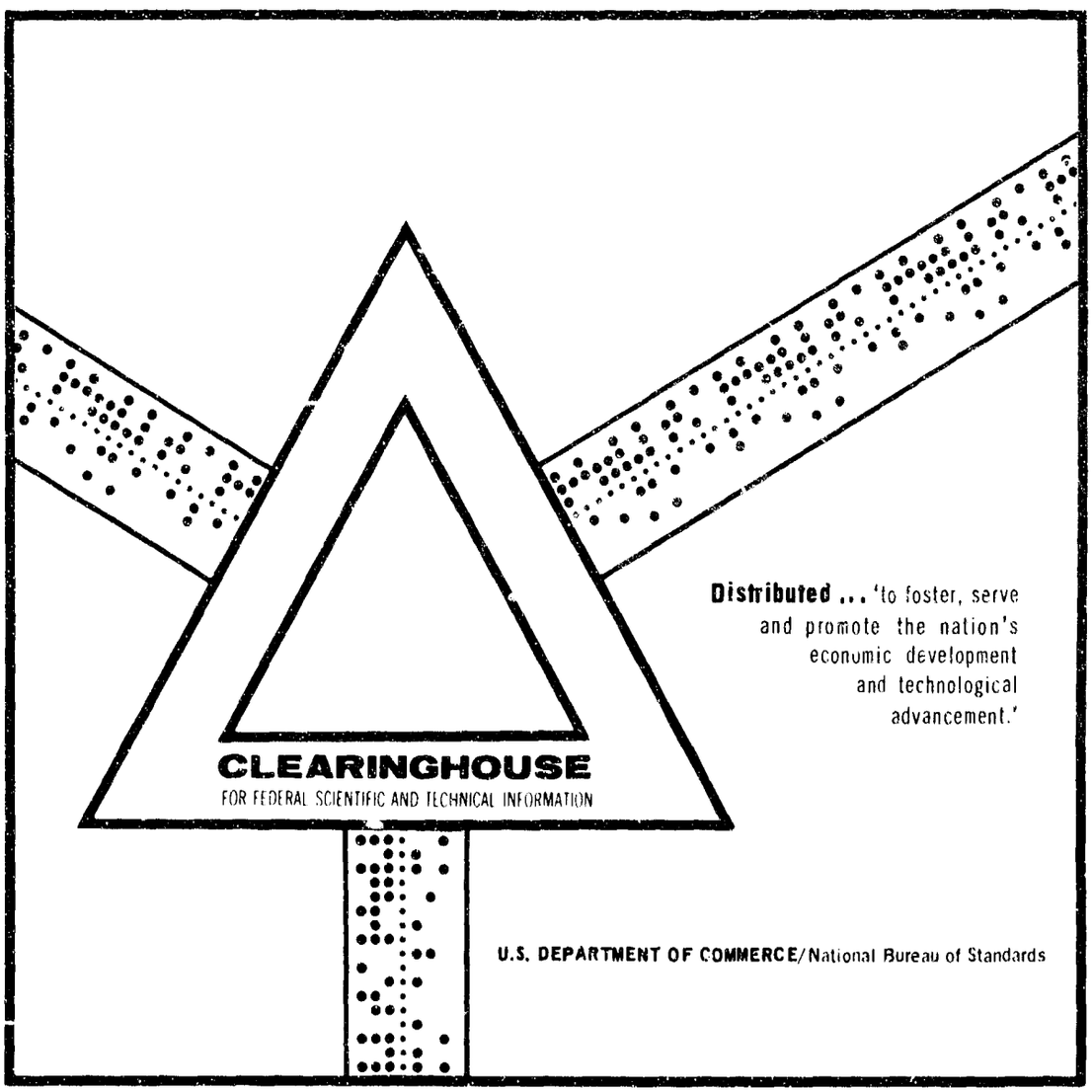
INFORMATION RETRIEVAL SYSTEM, VOLUME I

Jack D. Mahle, Jr., et al

Wolf Research and Development Corporation
Riverdale, Maryland

28 November 1969



AD699327

INFORMATION
RETRIEVAL
SYSTEM

INFORMATION
RETRIEVAL
SYSTEM

Prepared for

Data Systems Division
Fort Detrick
Frederick, Maryland

Prepared by

Wolf Research and Development Corporation
6801 Kenilworth Avenue
Riverdale, Maryland

28 November 1969

SYSTEM ID:	IRS
TITLE:	INFORMATION RETRIEVAL SYSTEM
PURPOSE OF THE SYSTEM:	The purpose of the Information Retrieval System is to store information about the scientific and technical reports and documents of the Fort Detrick Technical Library and to retrieve this information using "searches" and special print programs.
REQUESTED BY:	
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMERS:	Jack D. Mahle, Jr. and Sally Lukasiewicz
DOCUMENTED BY:	Jack D. Mahle, Jr.
DATE LAST REVISED:	
SOURCE LANGUAGE:	COBOL

COMPUTER: CDC 3150

REQUIRED COMPONENTS:
Paper Tape Reader
Two Magnetic Tape Transports
Four Disk Pack Drives
Card Reader
Line Printer

OBJECT TIME STORAGE REQUIREMENTS-

Main Memory:
Secondary:

SECURITY CLASSIFICATION-

Program:
Data:

REVIEWED BY:

APPROVED BY:

Chief, Systems Branch

Chief, Data Systems Division

SYSTEM DESCRIPTION:

The Fort Detrick Information Retrieval System is a system of computer programs written in COBOL to store and retrieve information about the scientific and technical reports and documents of the Fort Detrick Technical Library. The documents and reports have been abstracted and their subject matter indexed using descriptors.

This abstract, the subject matter descriptors, the document's title, the personal authors, the corporate authors, the document's series and contract numbers, any security classifications, and other pertinent information about each of the documents or reports make up the master record of the Information Retrieval System. The size of this record is up to 2300 characters, 980 of which are allotted to the abstract and 240 for up to 48 5-digit numeric descriptor codes to indicate the document's subject matter.

A thesaurus file of the 5-digit numeric descriptors and their equivalent English meanings is maintained for the system. It is needed so that the numeric code can be translated into English in the printing out of the system's information.

As a means of accessing the information of the master file an additional file is used. It is called a search or inverted file and is used in a subject matter search of the master file. While the records of the master file are arranged by accession number of the individual document and the subject matter of that document is indicated by one or more descriptor codes, the inverted file records are arranged by descriptor

code with the accession number of each master record indexed by that descriptor code. Thus each record of the inverted file contains one descriptor code and all of the accession numbers of each master record that contains that descriptor. These records are arranged numerically ascending by descriptor code.

This arrangement allows for quickly retrieving the accession numbers of the documents that contain information on a particular subject. For example: you want to know which documents contain information on microbiology...you know that the numeric descriptor equivalent to that English language descriptor is 01745....you go to record 1745 of the inverted file and you find the accession numbers 37734, 47630 and 21138. With the accession numbers of the documents that contain information on microbiology you then can access the master file using these accession numbers. As further example: You may wish to search the master file for the documents that contain information on both microbiology and viruses. To do this you would go the records in the inverted file for microbiology and viruses; e.g., records 01745 and 02733. You find document accession numbers 37734, 47630 and 21138 at the microbiology record and you find document accession numbers 27371, 37734, and 47630 at the viruses record. By comparing the accession numbers you know that documents 37734 and 47630 contain information on both microbiology and viruses.

With this ability to retrieve the accession number of documents on a particular subject you can also arrange your search criteria to exclude documents that contain certain subjects.

In addition to these logical "AND" and "NOT" searches you may also logically "OR" and "NOR" combine descriptors together in one search of the master file.

Other searches of the master file can be made by individual personal author, individual corporate author, individual series number, and individual contract number. These types of searches cannot be logically combined. You can only search for a single personal author, a single corporate author, a single series number, or a single contract number during one search of the file.

PROGRAM ID:	IR0[illegible]
TITLE:	PTRDRTN - Paper Tape Read Program
PURPOSE OF PROGRAM:	The purpcse of this program is to read the 8-channel flexowriter paper tape containing all the input unit records for the system, convert those records into a CDC 3150 compatible code, and write them out on a magnetic tape and the printer.
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMER:	Jack D. Mahle, Jr.
DOCUMENTED BY:	Jack D. Mahle, Jr.
SOURCE LANGUAGE:	COMPASS
COMPUTER:	CDC 3150
REQUIRED COMPONENTS:	Paper Tape Reader Line Printer Magnetic Tape Transport

OBJECTIVE TIME STORAGE
REQUIREMENTS-

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

The flexowriter paper tape that is the input to this program is punched in an eight bit, upper and lower case character code. These characters are, of course, not the same as the CDC characters and must be translated to the CDC code character by character. As each character is checked it has to be remembered as to whether you are in upper case mode or lower case mode to determine the proper translation to give to the character.

After each character is checked and properly translated it is stored in an output area. When 135 characters are stored they are written out on a magnetic tape and onto the line printer.

PROGRAM ID:	IR02
TITLE:	ONTODISK
PURPOSE OF PROGRAM:	The purpose of this program is to edit the magnetic tape created in IR01. If the data is correct, properly formatted input records are written out onto disks to be input to IR03.
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMER:	Jack D. Mahle, Jr.
DOCUMENTED BY:	Jack D. Mahle, Jr.
SOURCE LANGUAGE:	COBOL
COMPUTER:	CDC 3150
REQUIRED COMPONENTS:	2 Magnetic Tape Transports 4 Disk Pack Drives Line Printer

OBJECT TIME STORAGE
REQUIREMENTS-

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

ONTODISK is an editing and formatting program. The input to program is the magnetic tape created in IR01 from the paper tape unit records. Each item of the unit record is preceeded by a // and an item number from 01 to 92. //01 indicates a new unit record. //92 indicates an action code follows. If there is no //92 in the unit record, the action code is assumed to be ADD.

Each of the items are limited to a certain number of characters, so item length is one of the program checks. Certain items must be numeric so that is another check for some items. Missing items are blank filled.

When a //01 is encountered the previously edited items are written out onto three different disk files. The "Abstract" of the unit record is written out onto one file; the "Abbreviated Citation" portion is written out onto a third.

These three files will be input to IR03. The format of the records of these three files is identical with the three records formats of the three files which make up the master file.

Action codes of ADD, REP (replace), and DEL (delete) are the standard action codes for the input records. Two additional action codes are allowed in ONTODISK. They are

CHG (change) and CHA (change accession number). CHG is used to indicate a partial input record where only certain items of an existing record are to be changed. CHA is used to indicate a change in accession number only.

When CHG is used the partial input record must be as follows: //01 (classification) //92CHG//02 (existing accession number of the unit record to be changed) followed by //, the item numbers of the items to be changed and the new information of that item. All items of a unit record may be changed this way.

When CHA is used the partial input record must be as follows: //01 (classification) //92CHA//02 (existing accession number) //02 (the new accession number).

The ABBREVIATED CITATION file, the DESCRIPTOR-REST OF RECORD file, and ABSTRACT file must be readied for input to this program because if CHA or CHG type records are input then the program retrieves these records from the disks and tape, puts in the new information and then writes these records out as REP type input records in the case of CHG or as ADD (with new accession number) and DEL (with old accession number) in the case of CHA.

PROGRAM ID:	IR03
TITLE:	FILE MAINTENANCE PROGRAM (IRS-FMP)
PURPOSE OF PROGRAM:	The purpose of this program is to provide the means each month of updating the master file of the system with new accessions. The master file, because of its size, is divided into three sections; the ABBREVIATED CITATION file, the DESCRIPTOR-REST OF RECORD file and the ABSTRACT file. In addition to the update of the master file, an inverted file of accession numbers by descriptor is maintained. A listing of the new accessions is produced.
REQUESTED BY:	
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMER:	Jack D. Mahle, Jr.
DOCUMENTED BY:	Jack D. Mahle, Jr.

SOURCE LANGUAGE: COBOL

COMPUTER: CDC 3150

REQUIRED COMPONENTS: 2 Magnetic Tape Transports
4 Disk Pack Drives
Card Reader
Line Printer

OBJECT TIME STORAGE REQUIREMENTS-

Main Memory:
Secondary:

PROGRAM DESCRIPTION:

This program is the update program for all of the major files of the system, excepting the THESAURUS file which because of core limitations has its own update program. The files that are updated in this program are the master file, an inverted file, and a dictionary file. The master file, because of the number of records and the length of each record, must be divided into three separate files. The division of the master file is as follows: (1) the information necessary for the abbreviated citation listing of a search run and special listing runs of personal author, corporate author, contract number and series number, (2) the abstract and its classification, and (3) the numeric descriptors and the rest of the unit record. The first and the third portions are disk files, the second is a tape file.

The linking item of each of these records is an assigned accession number.

The inverted file is used for the searches and is an arrangement of all the descriptor codes in the system followed by the accession numbers of the documents in which the descriptors appear.

The dictionary file is the index created by program to provide the means of accessing the two disk portions of the master file.

Because these files are the heart of the system (excepting again the THESAURUS) a discussion of them is necessary to the understanding of the program.

THE FILES-

COBOL Name	Descriptive Name
ABBREV-CITE-FILE	Abbreviated Citation File

Description

This file is an index sequential disk file and is one of the three files that make up the complete master file. Although it is called the Abbreviated Citation File, it contains more items than just the ones needed for the Abbreviated Citation printout of the search. These other items are all of those needed for all the printouts except the complete unit record and the Accession Number within the Descriptor Listing. An additional item of each record of this file, not a part of the complete unit record, is a 2 character counter in which is stored the number of personal authors in the record.

This file is used in the Master File Update run, the Special Listings Run except when the Accession Number within Descriptor Listing (DESCRL-IR10) is being printed, and the Retrieval Run except when accession numbers only are outputted.

COBOL Names	Descriptive Name
OLD-ABSTRAK-FILE	Old Abstract File
NEW-ABSTRAK-FILE	New Abstract File
TEMP-ABSTRAC-FILE	Temporary Abstract File

Description

These three files are identical in record format. Each record contains one abstract from a Complete Unit Record, the classification of that abstract and the accession number of the Unit Record. The New Abstract and Old Abstract files are single reel sequential access tape files. The Old Abstract File is the input file to the Master Update Run, the New Abstract File is the output. This New Abstract File becomes the Old Abstract File on the next Master Update Run. The New Abstract File, when created, is another of the three files that make up the complete Master File. (The labels of these two files are the same, THEABSTRACT.) The Temporary Abstract File is a disk file on which the incoming update abstracts, abstract classifications, and unit record accession numbers are temporarily stored prior to their being added to the Old Abstract File to create the New Abstract File. The Temporary Abstract File is also used to supply the abstract and abstract classification in the printout of the monthly accession listing. The most current abstract tape is used as input to the Special Listing Run of IRSERCH2 to produce a dump of the master file in the form of a complete unit record listing and is used in the Retrieval Run of IRSERCH2

when the complete unit record listing is requested.

COBOL Name	Descriptive Name
DESC-R-OF-R-FILE	Descriptors and Rest of Record File

Description

This file is index sequential disk file and is one of the three files that make up the complete master file. It contains the numeric descriptor codes and the accession number of each unit record plus all the rest of the items of the unit record not contained in the abstract and Abbreviated Citation files. In addition, each record of the file contains a two character item, not a part of the complete unit record, used as a counter for the number of descriptors in each record. This file is used in the Master Update Run, in the Special Listing Run (when Complete Unit Record Listing is required), and in the Retrieval Run (when Completed Unit Record Listing is requested).

COBOL Name	Descriptive Name
THE-SEARCH--FILE	The Inverted File of Accession Numbers within Descriptors

Description

THE-SEARCH--FILE is a directly accessed disk file. Each record of this file contains a numeric descriptor code and the accession numbers if the master records in which that numeric descriptor code appears. If a descriptor has more accession numbers than space is allotted for (29 per record) then an additional record is allotted for that descriptor with space for 29 more accession

numbers. The address of this continuation record is contained in the last twelve characters of the first record and as many other continuation records as is necessary to contain all the accession numbers for a particular descriptor. These continuation records are chained in the same way to the preceeding portion of the record and so on back to the first. The numeric values of these numeric descriptor codes range from 0 to 12,999. Because of this the first one of each of 12,999 locations of the file are assigned, in ascending order of numeric descriptor code, to each descriptor and a maximum of 29 of their associated accession numbers. (Most of the descriptors have less than 29 associated accession numbers - the average is 10.) If the descriptor has more than 29 associated accession numbers than the required continuation records are assigned on a first come, first serve basis, starting at location 13,001. Location 13,000 contains the address of the next available location in the file. Since the first portion of the record (maybe the whole record) belonging to numeric descriptor code 00001 is in file location 1 of the file and that the first portion of the record belonging to numeric descriptor code 00002 is in file location 2 and so on to numeric descriptor 12,999, the numeric descriptor code itself can easily be used in an algorithm to find the disk address of the first portion of any record and in the last twelve characters of that record the address of any continuation of the record.

This search file is used in the file maintenance run of the master file, in the retrieval run, and in the listing of accession numbers by descriptors.

COBOL Name	Descriptive Name
DICTIONARY--FILE	Dictionary of Master File Records Disk Addresses

Description

DICTIONARY--FILE is a randomly accessed disk file. It has three different type records. Type one has one record. It is in location 1 of the file. Type two has 104 records in locations 2 through 105. Type three has a variable amount beginning in location 106. The type one record contains information about the two other types of records and is explained below. The 105 type two records contain the disk addresses of locations on the ABBREV-CITE-FILE and DESC-R-OF-R-FILE that have been made available for use in the previous update by deletions and/or replacements to those two files. The rest of the file's records, type three, contain the accession numbers and disk addresses of the valid records in the ABBREV-CITE-FILE and DESC-R-OF-R-FILE. Additionally, each of these type three records contain a three character item called ACTION-CODE used to indicate that the record came from the file during the dictionary update subprogram of the Master Update Run IR03.

The type one record contains three items. The first item is the number of records of the third type, i.e., accession numbers and disk address of the valid records in ABBREV-CITE-FILE and DESC-R-OF-R-FILE.

The second item of the type one record is the address of the next available disk location (at the end of the file) in the ABBREV-CITE-FILE and DESC-R-OF-R-FILE. The third item of the type one record is the number of records of the second type record (i.e., disk address of record locations on the ABBREV-CITE-FILE and DESC-R-OF-R-FILE)

that have been made available for use in the previous update by deletions and/or replacements to those two files.

DICTIONARY--FILE is used in the master update run, the special listing run (except the accession number within descriptor listing) and the retrieval run. The locations of the type one and type two records of this file are known and can be accessed directly. The type three records are accessed using the same halving method as described for THESAURUS---FILE.

The procedure used to update these files is to randomly append each new accession to the abbreviated citation file and the descriptor-rest of record file; then to put the abstract on the temporary abstract file. . . . The next update is of the search file. New descriptors and the new replacing descriptors are added to the search file. Deleted descriptors and the old replaced descriptors are removed from the search file in a later procedure. Following the additions to the search file the update of the dictionary of the addresses of the abbreviated citation file and the descriptor-rest of record file takes place. The update of the dictionary is a process that is logically identical to the update of the THESAURUS file. After the dictionary update the deletion on the search file is performed.

The printing of the accession is the next procedure. To print the complete unit record requires an access of THESAURUS file as is described under IR03. If any of the accessions are classified or if they are to be suppressed then the title accession number and title classification is written out on another file for printing after the monthly accession listing. When this printing of the other listing (classified and suppressed accessions) is completed the IRS file maintenance is through.

PROGRAM ID:	IR04
TITLE:	THESAURUS UPDATE (IRS-THES)
PURPOSE OF PROGRAM:	The purpose of the program is to give the capability to update the THESAURUS file with additions, replacements, and deletions.
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMER:	Jack D. Mahle, Jr.
DOCUMENTED BY:	Jack D. Mahle, Jr.
SOURCE LANGUAGE:	COBOL
COMPUTER:	CDC 3150
REQUIRED COMPONENTS:	1 Magnetic Tape Transport 1 Disk Pack Drive Line Printer Card Reader

OBJECT TIME STORAGE
REQUIREMENTS

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

The THESAURUS file is a randomly accessed disk file. Each of its records contain a subject matter descriptor (English language) and the associated numeric code. Since the subject matter descriptor codes are maintained on the master file (the DESC-R-OF-R-FILE portion of the master file) in their numeric code form, it is through the use of this THESAURUS file that the English language equivalents are obtained for the various printouts as required.

The file, although randomly accessed, is maintained in ascending order of numeric descriptor codes.

The means of accessing the particular record needed is through a halving process. The numeric code to be translated is compared to the numeric codes of the nine records of the block of records at the middle of the file. Then, depending on whether it is greater or less than these numeric codes, it is compared to the numeric codes of the records of the block of records at the middle of the top half or bottom half of the file. This method of halving continues until the matching numeric code is found and the English language equivalent then is moved to the printout area. This method of accessing the THESAURUS file is not used in this program. However, since it is the method of accessing this file the technique is discussed here.

The method used to update the THESAURUS file is an "inplace" updating technique. The file is opened as an input/output file and selected as randomly accessed. Because of this, since the file is sequentially ascending arranged because of an input area equal in size to the maximum number of input cards, the file can remain essentially inplace. When an input record that fits between two existing file records is encountered the higher one of those records from the file can be moved into the input area, the input area internally resorted, and processing continues from that point.

After the update of the THESAURUS is completed two types of listings can be produced depending upon the options declared on the THESAURUS LISTING OPTION CARD. (See Appendix C, page C-2). One listing is of all the additions, replacements, and deletions to and from the file. The other listing is a dump of the whole THESAURUS file as it is following the update.

PROGRAM ID'S:	IR05, IR06, IR07
TITLES:	DISK FILE SAVE PROGRAMS
PURPOSE OF PROGRAMS:	The purpose of these three programs is to provide the means to dump the five disk files onto tape and to be able to put them back onto the disks. The necessity for this capability is to provide the necessary back-up files on tape.
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMER:	Jack D. Mahle, Jr.
DOCUMENTED BY:	Jack D. Mahle, Jr.
SOURCE LANGUAGE:	COBOL
COMPUTER:	CDC 3150
REQUIRED COMPONENTS:	2 Magnetic Tape Transports 4 Disk Pack Drives

OBJECT TIME STORAGE
REQUIREMENTS -

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

These three programs are designed to enable the saving and restoration of the five permanent disk files of the system. These files are written out onto tape in a format on disk. This enables the entire process to be essentially a disk to tape and tape to disk procedure. The five files that can be saved and restored are (1) the abbreviated citation file, (2) the descriptor-rest of record file, (3) the search file, (4) the dictionary file, and (5) the thesaurus file. The program to save and restore the first two files (1) and (2) is one program; the program to save and restore the second two files (3) and (4) is one program; the program to save and restore the fifth file (5) is one program.

PROGRAM ID:	IR08
TITLE:	IRSERCH
PURPOSE OF PROGRAM:	The purpose of this program is process the search criteria cards and to retrieve all of the accession numbers of the documents that contain the descriptors of the search criteria card. These descriptors are both the positive and negative descriptors (i.e., AND, OR, & BUT NOT & NOR descriptors). These accession numbers are written out on to two files, positive and negative.
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMER:	Jack D. Mahle, Jr.
DOCUMENTED BY:	Jack D. Mahle, Jr.
SOURCE LANGUAGE:	COBOL
COMPUTER:	CDC 3150
REQUIRED COMPONENTS:	Card Reader 2 Disk Pack Drives

OBJECT TIME STORAGE
REQUIREMENTS -

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

This program processes the four type cards of the search criteria (see Appendix C). According to the search criteria cards submitted, the positive (AND & OR) and negative (BUT NOT & NOR) accession numbers are retrieved from the search file. These accession numbers, with the proper identifying information, are written out onto temporary disk files to be processed later by the next program, IRSERCH2, IR09. But prior to input to this IRSERCH2 program the two files must be sorted by accession number.

PROGRAM ID:	IR09
TITLE:	IRSERCH2
PURPOSE OF PROGRAM:	This program has three modes of operation: (1) as the file selector and print program for the Boolean type searches started in IRSERCH, (2) as the only program for the personal author, corporate author, contract number, and series number searches, (3) as the print program for the special listing of the whole file; i.e., "UNITRECORD BY ACCESSION NUMBER".
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMER:	Jack D. Mahle, Jr.
DOCUMENTED BY:	Jack D. Mahle, Jr.
SOURCE LANGUAGE:	COBOL
COMPUTER:	CDC 3150

REQUIRED COMPONENTS: Card Reader
2 Magnetic Tape Transports
4 Disk Pack Drives
Line Printer

OBJECT TIME STORAGE REQUIREMENTS -

Main Memory:
Secondary:

PROGRAM DESCRIPTION:

To perform the main purpose of this program; i.e., the final selection and printing out of accession numbers, the output from IRSERCH must have been sorted prior to input to this program. The same search criteria cards submitted in IRSERCH must be resubmitted with this program. There is an additional card that must be submitted to this program prior to the search criteria cards. This card is the "NAME" card. For the format of this card see Appendix C. To perform the second purpose of this program requires no previous run of IRSERCH. Two cards are required by this procedure. These control cards are the "SEARCH CARD", used to indicate the type of listing desired and the "SEARCH CARD 2" used to indicate the type of search and to give the search parameter. For the format of these cards see Appendix C. To perform the third purpose of this program also requires no previous run of IRSERCH but does require a control card (see Appendix C, page C-9). This control card causes the listing of the entire master file in complete unit record format by accession number.

PROGRAM ID'S:	IR10, IR11, IR12
TITLES:	SPECIAL LISTING PROGRAMS
PURPOSE OF PROGRAMS:	The purpose of these three programs is to list selected information of the master file sorted by personal author, corporate author, contract number, and series number and to list the accession numbers by descriptors.
ANALYST:	Jack D. Mahle, Jr.
PROGRAMMER:	Sally Lukasiewicz
DOCUMENTED BY:	Jack D. Mahle, Jr.
SOURCE LANGUAGE:	COBOL
COMPUTER:	CDC 3150
REQUIRED COMPONENTS:	4 Disk Pack Drive Line Printer Card Reader

OBJECT TIME STORAGE
REQUIREMENTS -

Main Memory:

Secondary:

PROGRAM DESCRIPTION:

These three programs are the extraction program and print programs required to produce the special listings sequenced by personal author, corporate author, contract number, series number, and accession number by descriptor number. IR10 is the program to produce the accession number by descriptor number. IR11 extracts the information from the abbreviated citation file for the special listings of IR12 which is the print program for the rest of the special listings.

APPENDIX A
SYSTEM FLOWCHARTS

(The System Flowcharts are in a separately bound volume with Appendix B, the Detailed Flowcharts.)

APPENDIX B
DETAILED FLOWCHARTS

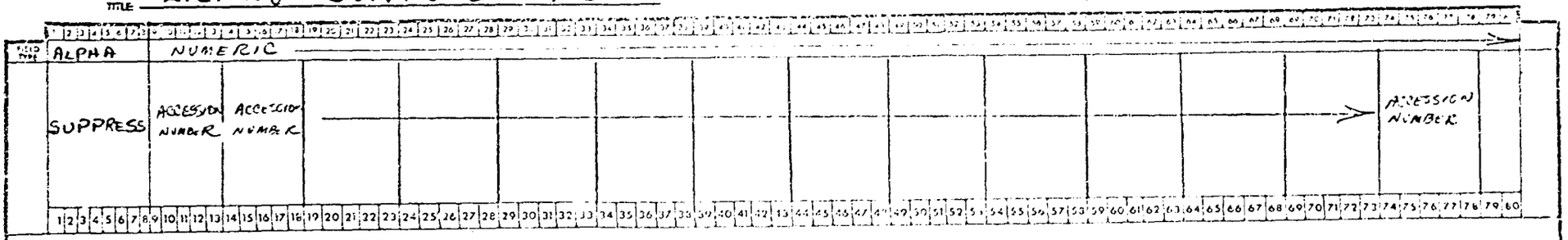
(The Detailed Flowcharts are in
a separately bound volume.)

APPENDIX C
CARD FORMATS

TITLE LISTING SUPPRESS CARD

CARD FORMAT

APPENDIX C



TO SUPPRESS THE LISTING OF ANY NEW UNIT RECORD FROM COMING OUT ON MONTHLY ACCESSION LISTING PUT THE ACCESSION NUMBER OF THAT UNIT RECORD ON THIS TYPE CARD. UP TO 14 ACCESSION NUMBERS PER CARD ARE PERMITTED. UP TO 5 "LISTING SUPPRESS" CARD MAY BE INCLUDED IN ANY ONE FILE MAINTENANCE RUN.

T-2

AMC FORM 1600-R
20 DEC 67

TITLE THESAURUS LISTING OPTION CARD CARD FORMAT

APPENDIX C

FIELD SIZE	ALPHA	A/N		ALPHA		ALPHA	
	THESLIST	DD/MM/YY	FILLER	ARD OPTION *	FILLER	WTL OPTION **	FILLER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

C-2

* TO GET A LISTING OF THE ADDITIONS, REPLACEMENTS, AND DELETIONS TO THE THESAURUS PUT "ARD" IN CARD COLUMNS 21, 22, & 23.

** TO GET A LISTING OF THE ENTIRE THESAURUS FILE PUT "WTL" IN CARD COLUMNS 26, 27, & 28.

AMC FORM 1600-R
20 DEC 67

TITLE THESAURUS UPDATE (MIC)

CARD FORMAT

APPENDIX C

FIELD TYPE	A/N	NUMERIC	A/N	ALPHANUMERIC	
	BLANKS	DESCRIPTOR CODE	ACTION CODE *	ENGLISH LANGUAGE DESCRIPTOR	FILLER
	1-8	9-13	14	15-55	56-80

* THE ACTION CODE MAY BE:
1) AD (ADD)
2) RP (REPLACE)
3) DL (DELETE)

E-7

AMC FORM 20 DEC 67 1600-R

TITLE NAME CARD

CARD FORMAT

APPENDIX C

FIELD TYPE		A/N	A/N	ALPHANUMERIC	ALPHANUMERIC	
	BLANKS	TYPE OF LISTING	REQUEST NUMBER	REQUESTER'S NAME	REQUESTER'S ORGANIZATION	FILLER
	1 2 3 4 5 6 7 8	9	10 11 12 13 14 15 16 17 18 19 20	21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	71 72 73 74 75 76 77 78 79 80

THE "NAME CARD" IS USED IN BOOLEAN TYPE* SEARCHES TO SPECIFY THE TYPE OF LISTING DESIRED i.e.,

(1) ACCESSION NUMBER ONLY OR (2) ACCESSION NUMBER AND ABBREVIATED CITATION OR (3) ACCESSION NUMBER AND COMPLETE UNIT RECORD. FOR (1) PUT "AN" IN CARD COLUMNS 9 & 10; FOR (2) PUT "AC" IN CARD COLUMNS 9 & 10; FOR (3) PUT "UR" IN CARD COLUMNS 9 & 10.

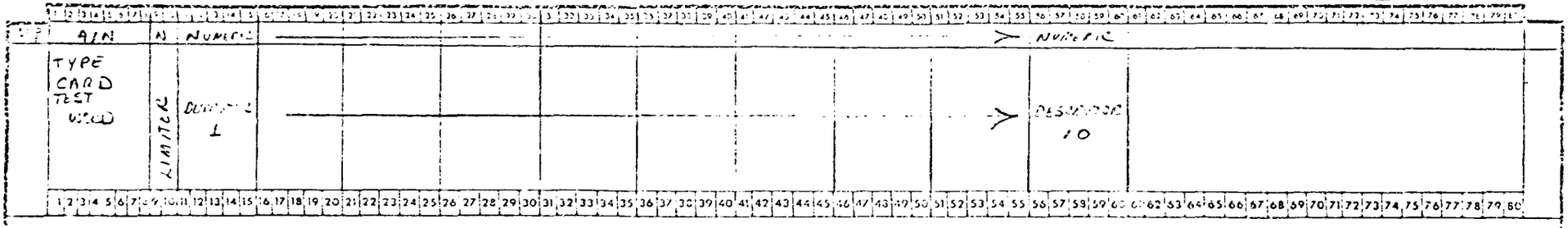
* WITH "AND", "OR", BUT NOT", & "NOR" CARDS

AMC FORM 1600-R
30 DEC 67

TITLE "AND", "OR", "BUT NOT" AND "NOR" DESCRIPTORS SEARCH CRITERIA CARD

CARD FORMAT

APPENDIX C



TO INPUT THE SEARCH CRITERIA TO IRSEARCH AND TO IRSEARCH2 CHOSE THE PROPER TEST WORD FOR CARD COLUMNS 1 THRU 8: "ANDΔΔΔΔΔ", "ORΔΔΔΔΔΔ", "BUTΔNOTΔ" OR "NORΔΔΔΔΔ". THEN PUT THE DESIRED DESCRIPTOR IN DESCRIPTOR POSITIONS 1 THRU 10 FOR "AND" & "BUT NOT" CARDS; IN DESCRIPTOR POSITIONS 1 THRU 5 FOR "OR" & "NOR" CARD. ONLY ONE "AND" CARD & ONE "BUT NOT" CARD ARE ALLOWED. UP TO FIVE "OR" & "NOR" CARDS ARE ALLOWED. LEAVE LIMITER BLANK FOR "AND" & "BUT NOT" CARDS. PUT IN 01, 02, 03, 04, or 05 FOR "OR" & "NOR" CARDS. MINIMUM NUMBER OF CARDS PER RUN IS ONE "AND" or ONE "OR" CARD. THE CARD(S) MUST BE INPUT TO BOTH IRSEARCH & IRSEARCH2.

AMC FORM 1600-R 20 DEC 67

TITLE OTHER SEARCHES† SEARCH CARD CARD FORMAT

APPENDIX C

FIELD NAME	ALPHA	n/s	A/N	
	SEARCHAA	TYPE LISTING*	REQUEST NUMBER	FILLER
	1-8	9-10	11-20	21-80

*SPECIFY "UR" FOR COMPLETE UNIT RECORD LISTING OR "AC" FOR ABBREVIATED CITATION LISTING IN CARD COLUMNS 9 & 10.

†THE OTHER SEARCHES ARE:

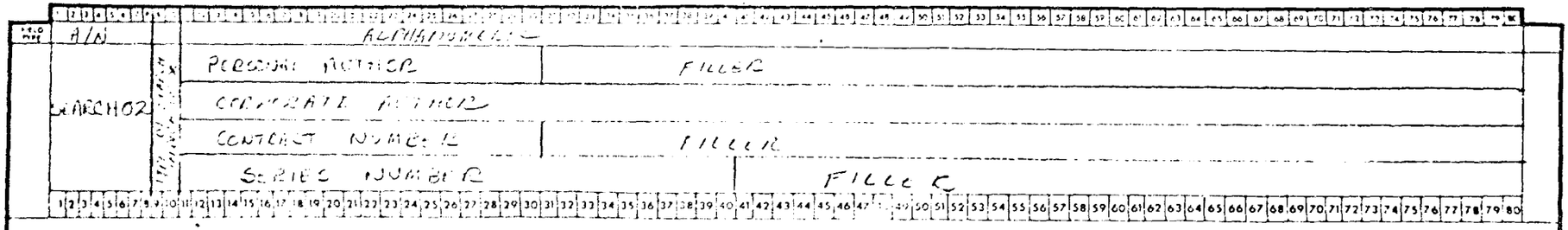
CORPORATE AUTHOR SEARCH,
PERSONAL AUTHOR SEARCH,
CONTRACT NUMBER SEARCH, AND
SERIES NUMBER SEARCH.

A SECOND SEARCH CARD, "SEARCH02", IS REQUIRED (SEE C-6).

AMC FORM 1600-8
30 DEC 67

TITLE OTHER SEARCHES SEARCH CARD 2 CARD FORMAT

APPENDIX C



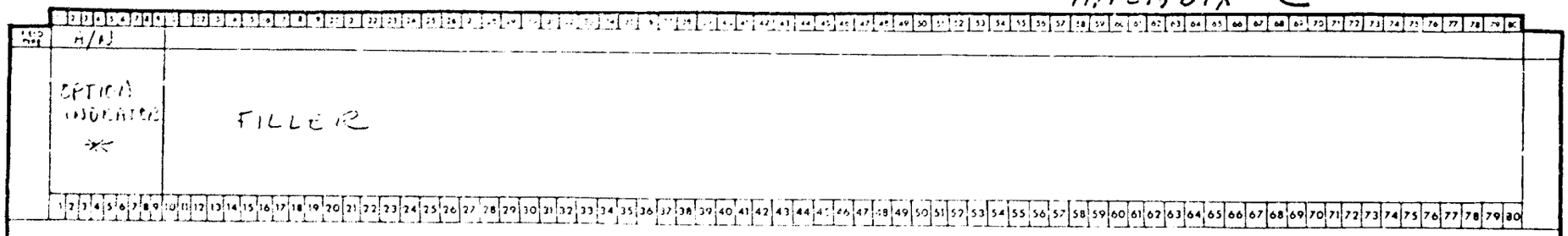
* THIS CARD IS USED IN CONJUNCTION WITH THE "OTHER SEARCHES SEARCH CARD", THIS CARD INDICATES THE TYPE OF SEARCH IN CARD COLUMNS 9 and 10.
TO PERFORM A PERSONAL AUTHOR SEARCH PUT "PA" IN 9 & 10 AND THE PERSONAL AUTHOR IN 11 THRU 30;
TO PERFORM A CORPORATE AUTHOR SEARCH PUT "CA" IN 9 & 10 AND THE CORPORATE AUTHOR IN 11 THRU 80;
TO PERFORM A CONTRACT NUMBER SEARCH PUT "CN" IN 9 & 10 AN THE CONTRACT NUMBER IN 11 THRU 30;
TO PERFORM A SERIES NUMBER SEARCH PUT "SR" IN 9 & 10 AND THE SERIES NUMBER IN 11 THRU 40.

C-7

AMC FORM 1400 R
20 DEC 67

TITLE SPECIAL LISTINGS OPTION CARD CARD FORMAT

APPENDIX C



* THIS CARD IS USED WITH THE SPECIAL LISTING PROGRAMS "FORACC" AND "ACCLIST"

- TO LIST TITLE, DATE, & ACCESSION NUMBER BY PERSONAL AUTHOR - PUT "OPTIONO1" IN CARD COLUMNS 1 THRU 9
- TO LIST TITLE, DATE, & ACCESSION NUMBER BY CONTRACT NUMBER - PUT "OPTIONO2" IN CARD COLUMNS 1 THRU 9
- TO LIST TITLE, DATE, & ACCESSION NUMBER BY SERIES NUMBER - PUT "OPTIONO3" IN CARD COLUMNS 1 THRU 9
- TO LIST TITLE, DATE, & ACCESSION NUMBER BY 1ST & 2ND CORPORATE AUTHOR - PUT "OPTIONO4" IN CARD COLUMNS 1 THRU 9

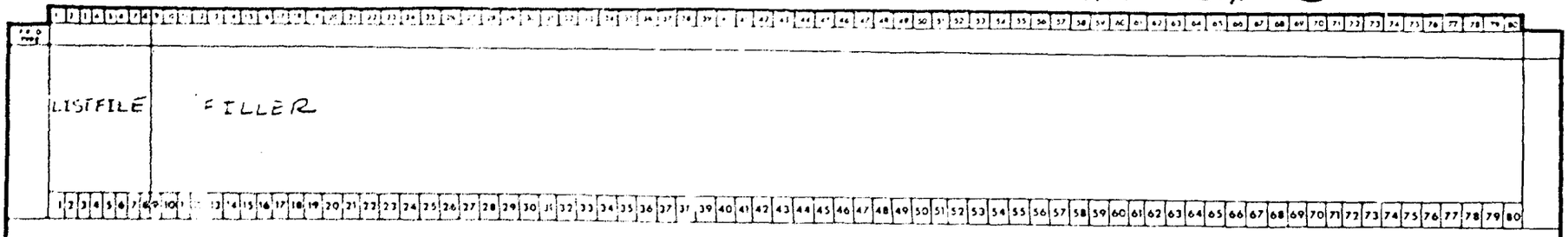
→ THE APPROPRIATE OPTION CARD MUST BE USED WITH BOTH "FORACC" & "ACCLIST" ←

AMC [illegible] 1600 B

TITLE: LIST WHOLE FILE OPTION CARD

CARD FORMAT

APPENDIX C



THIS CARD IS USED IN IRSERCH2 TO LIST THE ENTIRE FILE IN COMPLETE UNIT RECORD FORMAT i.e., UNIT RECORD BY ACCESSION NUMBER.

AMC FORM 1600-8

APPENDIX D
RECORD FORMATS

MEDIA: DISK PACK
TITLE: ABBREVIATED CITATION FILE

DATA PROCESSING STORAGE FORMAT

APPENDIX D

CHARS / FIELD TYPE	5 NUMERIC	10 ALPHANUMERIC	270 ALPHANUMERIC
DATA	ACCESSION NUMBER	DATE OF REPORT	REPORT TITLE

CHARS / FIELD TYPE	240 ALPHANUMERIC
DATA	REPORT TITLE (CONT.)

CHARS / FIELD TYPE	240 ALPHANUMERIC	TITLE CONTINUATION	200 ALPHANUMERIC
DATA	REPORT TITLE (CONT.)		(UP TO) 10 PERSONAL AUTHORS

CHARS / FIELD TYPE	200 ALPHANUMERIC
DATA	(UP TO) 10 PERSONAL AUTHORS (CONT.)

FILE NAME: ABBREV CITE-FILE
RECORD LENGTH: 958 CHARACTERS
BLOCKING FACTOR: 1:1

D-1

MEDIA: DISK PACK
TITLE: ABBREVIATED CITATION FILE (CONT.)

DATA PROCESSING STORAGE FORMAT

APPENDIX D

CHARS / FIELD TYPE	200 ALPHANUMERIC	30 ALPHANUMERIC	30 ALPHANUMERIC
DATA	(UP TO) 10 PERSONAL AUTHORS (CONT.)	ORIGINATING AGENCY SERIES I	ORIGINATING AGENCY SERIES II

CHARS / FIELD TYPE	30 ALPHANUMERIC	30 ALPHANUMERIC	30 ALPHANUMERIC	20 ALPHANUMERIC	20 ALPHANUMERIC
DATA	ORIGINATING AGENCY SERIES II (CONT.)	OTHER SERIES I	THER SERIES II	CONTRACT NUMBER I	CONTRACT NUMBER II

CHARS / FIELD TYPE	20 ALPHANUMERIC	70 ALPHANUMERIC	70 ALPHANUMERIC
DATA	CONTRACT NUMBER II (CONT.)	1ST CORPORATE AUTHOR	2ND CORPORATE AUTHOR

CHARS / FIELD TYPE	70 ALPHANUMERIC	
DATA	2ND CORPORATE AUTHOR (CONT.)	

FILE NAME: ABBREV-CITE-FILE
RECORD LENGTH: 758 CHARACTERS
BLOCKING FACTOR: 1:1

AMC FORM 20 DEC 67 1601-R

MEDIA: DISK PACK
TITLE: THESAURUS (TH-THESAURUS & THESAUR-INFO)

DATA PROCESSING STORAGE FORMAT

APPENDIX D

TH-THESAURUS

CHARS	5	2	40	1
FIELD TYPE	NUMERIC	A/N	ALPHANUMERIC	
DATA RECORD I	DESCRIPTOR CODE	ACTION CODE	ENGLISH LANGUAGE DESCRIPTOR	CLASS

THESAURUSJNFO

CHARS	7	41
FIELD TYPE	NUMERIC	ALPHANUMERIC
DATA RECORD II	NUMBER OF BLOCKS IN THESAURUS	FILLER

CHARS	
FIELD TYPE	
DATA	

CHARS	
FIELD TYPE	
DATA	

FILE NAME: THESAURUS---FILE
RECORD LENGTH: 128 WORDS
BLOCKING FACTOR: 9:1

MEDIA: DISK PACK
TITLE: DESCRIPTIVE AND REST OF RECORD FILE & DATA PROCESSING STORAGE FORMAT DESCRIPTOR-REST OF RECORD INPUT FILE

APPENDIX D

CHARS	5	1	10	40	10	20	1	20
FIELD TYPE	NUMERIC	A	ALPHANUMERIC	ALPHANUMERIC	ALPHANUMERIC	ALPHANUMERIC	A	ALPHANUMERIC
DATA	ACCESSION NUMBER	SOURCE UNIT RECORD	SHORT TITLE	REPORT TYPE AND DATE	NUMBER OF PAGES AND REFERENCES	COPY NUMBER	REPORT CLASSIFICATION	CONTROL NUMBER

CHARS	20	1	2	20	20	10	10	10	10	1	1	4	100
FIELD TYPE	ALPHANUMERIC	A	A	ALPHANUMERIC	ALPHANUMERIC	ALPHANUMERIC	ALPHANUMERIC	ALPHANUMERIC	ALPHANUMERIC	A	A	A/N	A/N
DATA	CONTROL NUMBER CONT.	SECURITY CLASSIFICATION	DOWNGRADING CONSTRUCTIONS	PROJECT NUMBER I	PROJECT NUMBER II	TASK AND WORK UNIT NUMBERS I	TASK AND WORK UNIT NUMBERS II	1ST CORP. AUTHOR CODE	2ND CORP AUTHOR CODE	SUPPLEMENTARY NOTE CONTINUATION	SUPPLEMENTARY NOTE CONTINUATION	NORUN	SUPPLEMENTARY NOTE

CHARS	100	240
FIELD TYPE	ALPHANUMERIC	A/N
DATA	SUPPLEMENTARY NOTE (CONT.)	(UP TO) 4 DESCRIPTORS

CHARS	240
FIELD TYPE	NUMERIC
DATA	(UP TO) 48 DESCRIPTORS (CONT.)

FILE NAME: DESC-R-OF-R-FILE & DRFIN
RECORD LENGTH: 538 CHARACTERS
BLOCKING FACTOR: 1:1

MEDIA: DISK PACK
TITLE: DESCRIPTORS AND MAP OF [illegible] FILE

DATA PROCESSING STORAGE FORMAT
& DESCRIPTOR-MAP OF BLOOD INPUT FILE

APPENDIX D

CHARS		
FIELD TYPE	NUMERIC	
DATA	(UP TO) 48 DESCRIPTORS (CONT.)	

CHARS	240	2
FIELD TYPE	NUMERIC	N
DATA	(UP TO) 48 DESCRIPTORS (CONT.)	NUMBER OF DESCRIPTORS

FIELD TYPE	
DATA	

FIELD TYPE	
DATA	

FILE NAME: DESC-R-OF-R-FILE & ORFIN
RECORD LENGTH: 638 CHARACTERS
BLOCKING FACTOR: 1:1

MEDIA: DISK PACK
TITLE: SEARCH FILE

DATA PROCESSING STORAGE FORMAT

APPENDIX D

CHARS	5	2	145
FIELD TYPE	ALPHANUMERIC		NUMERIC
DATA	DESCRIPTOR	NUMBER OF ACCESSION NUMBERS	(UP TO) 29 ACCESSION NUMBERS

CHARS	145	12	
FIELD TYPE	NUMERIC (CONT.)	NUMERIC	
DATA	14 ACCESSION NUMBERS (CONT.)	REMAINDER OF RECORD ADDRESS	

FIELD TYPE			
DATA			

FIELD TYPE			
DATA			

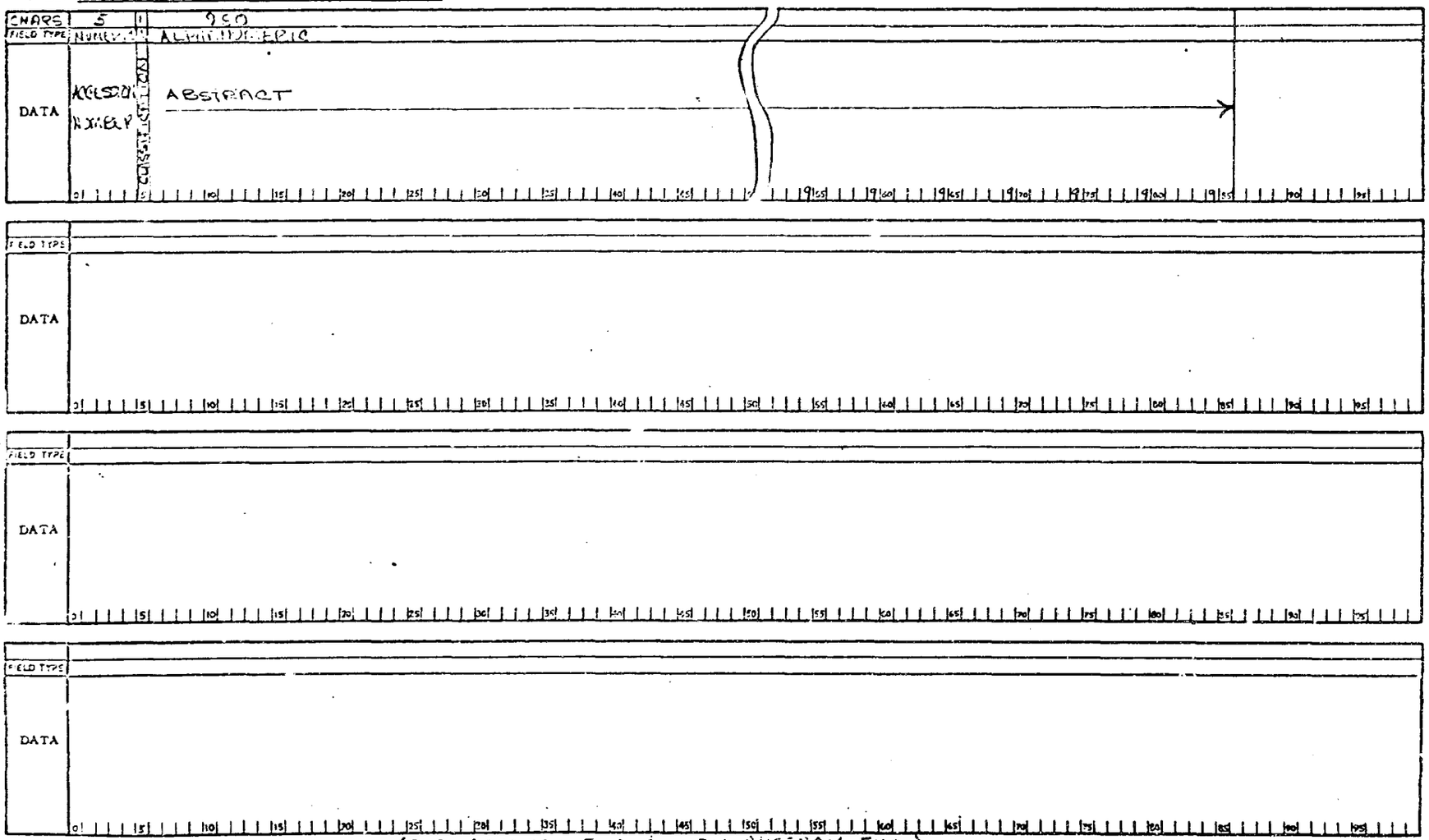
FILE NAME: THE-SEARCH--FILE
RECORD LENGTH: 164 CHARACTERS
BLOCKING FACTOR: 3:1

AMC FORM 1601-R DEC 67

MEDIA: MAGNETIC TAPE
TITLE: ABSTRACT FILE (OLD & NEW)

DATA PROCESSING STORAGE FORMAT

APPENDIX D



D-7

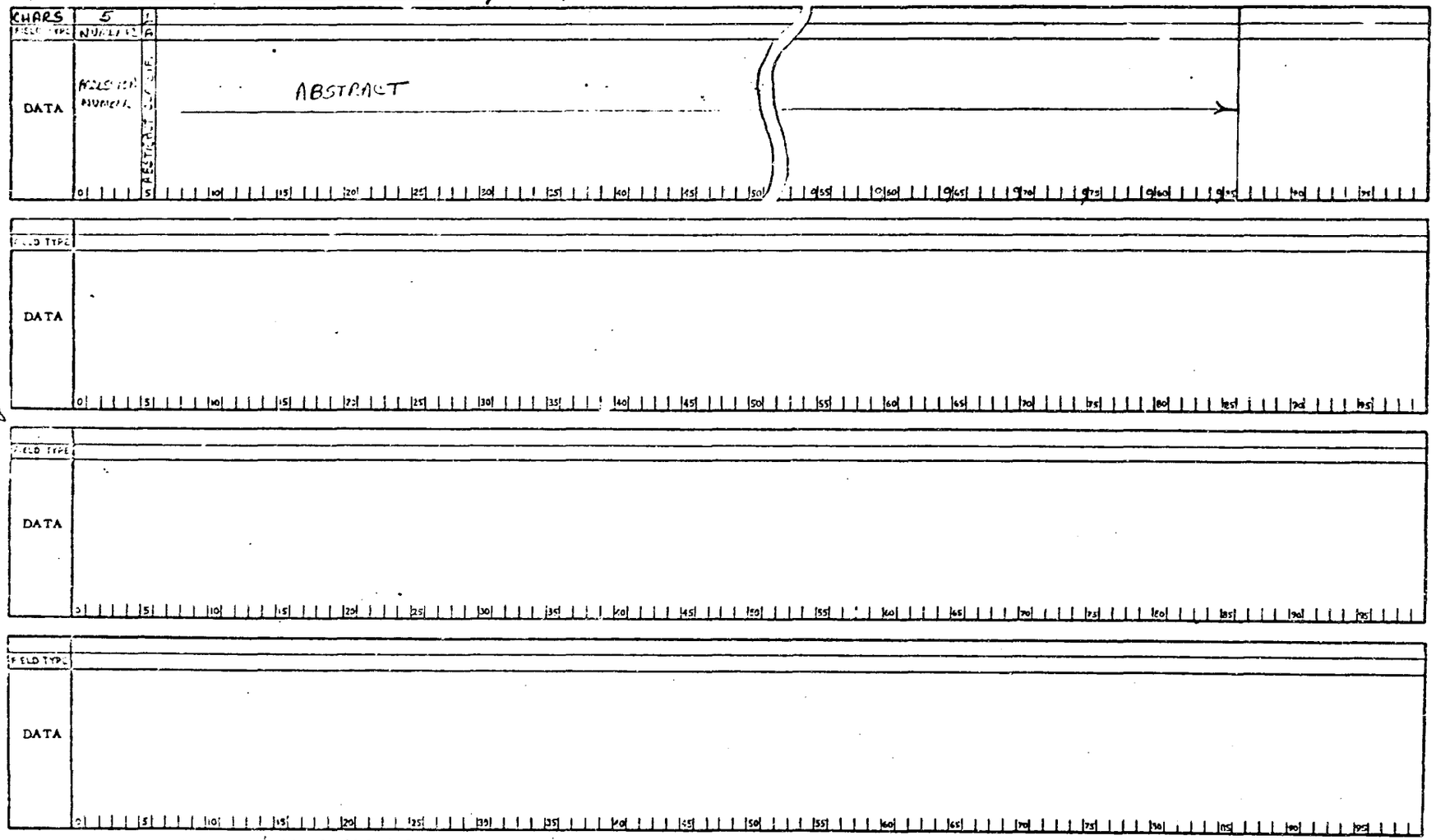
FILE NAME: ABSTRACT (OLD-ABSTRAK-FILE & NEW-ABSTRAK-FILE)
RECORD LENGTH: 986 CHARACTERS
BLOCKING FACTOR: 1 RECORD PER BLOCK

MEDIA: DISK PACK

TITLE: ABSTRACT INPUT FILE & TEMPORARY ABSTRACT FILE

DATA PROCESSING STORAGE FORMAT

APPENDIX D



FILE NAME: ABFIN & TEMP-ABSTRACFILE

RECORD LENGTH: 986

BLOCKING FACTOR: 1 : 1

MEDIA: DISK PACK
TITLE: DICTIONARY

DATA PROCESSING STORAGE FORMAT

APPENDIX D

WHERE	5	12	20
FIELD TYPE	NUMERIC	NUMERIC	Y/N
DATA RECORD I	RECORD NUMBER	RELATIVE FILE NUMBER OF ARBITRARY FILE ACCESS FOR DESCRIPTIVE RECORDS	

WHERE	5	12	20
FIELD TYPE	NUMERIC	NUMERIC	Y/N
DATA RECORD II	GENERIC CODE	ABBREVIATED NAME ASSIGNED TO THE GENERIC CODE	

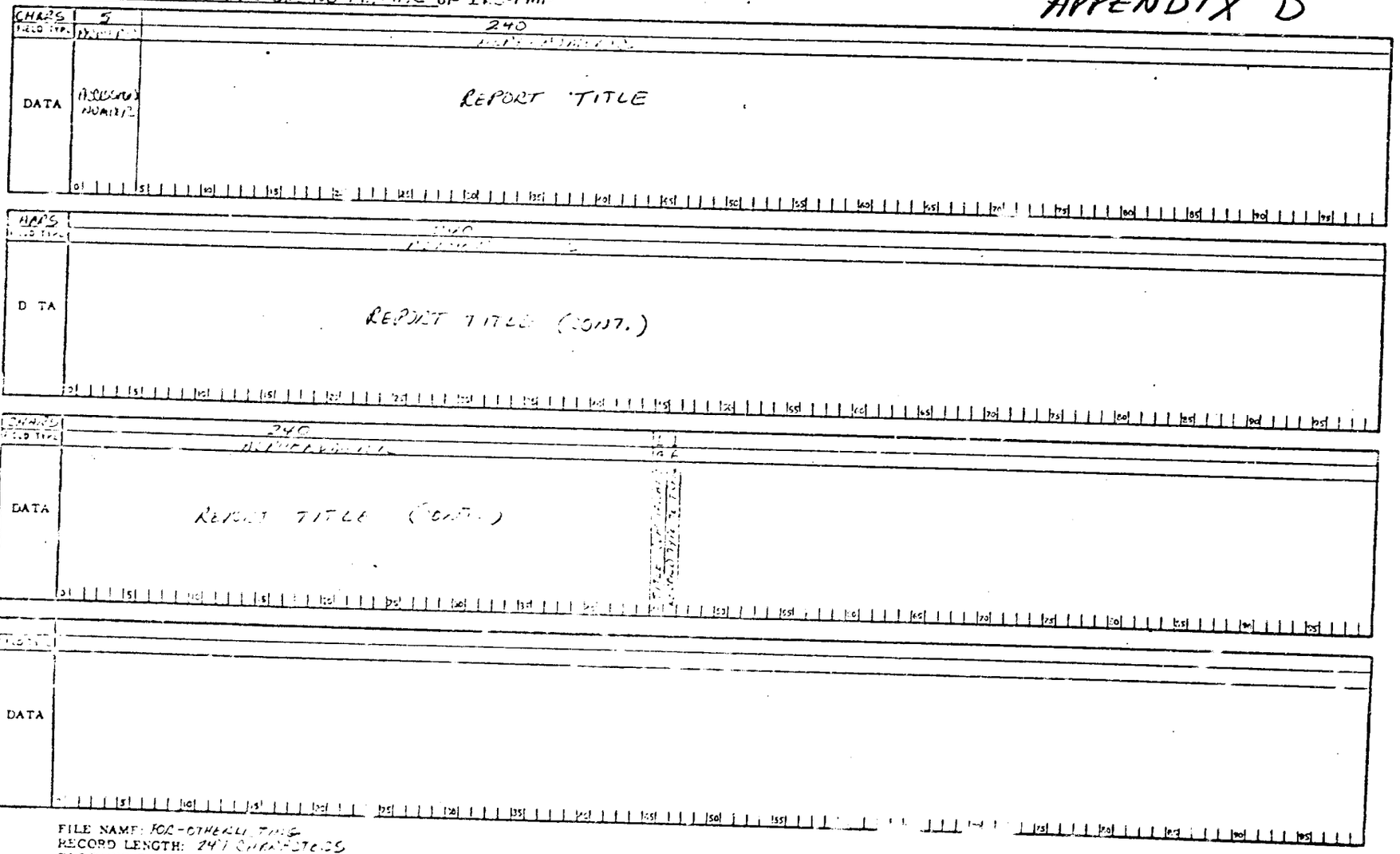
WHERE	5	12	20
FIELD TYPE	NUMERIC	NUMERIC	Y/N
DATA RECORD III	FILLER	ARBITRARY NUMBER OF UNIQUE LOCATIONS DELETED RECORDS APPLY-TO-ALL RECORD SELECTION	

FIELD TYPE	
DATA	

FILE NAME: DICTIONARY--FILE
RECORD LENGTH: 20 CHARACTER
BLOCKING FACTOR: 21 : 1

MEDIA: DISK PACK
TITLE: INFORMATION FOR SECOND HEADING OF IRS-FMP DATA PROCESSING STORAGE FORMAT

APPENDIX D



FILE NAME: FOR-OTHER11 FILE
RECORD LENGTH: 247 CHARACTERS
BLOCKING FACTOR: 2 : 1

MEDIUM: SCANCORE FLEXOWRITER PAPER TAPE DATA PROCESSING STORAGE FORMAT
TITLE: UNIT RECORD

APPENDIX D

DATA	FOR THE FORMAT OF THE FLEXOWRITER PAPER TAPE INPUT TO THE INFORMATION RETRIEVAL SYSTEM SEE "SIMULTANEOUS PRODUCTION OF CATALOG CARDS AND COMPUTER INPUT" BY ROBERT L. HOLLEY AND PHILIP E. HOFFMAN OF THE TECHNICAL
DATA	[illegible], FORT DETRICK, FREDERICK, MARYLAND
DATA	
DATA	

FILE NAME: FLEXOWRITER PAPER TAPE
RECORD LENGTH: 1 CHARACTER
BLOCKING FACTOR: 1:1

MEDIA: MAGNETIC TAPE
TITLE: CONVERTED

DATA PROCESSING STORAGE FORMAT

APPENDIX D

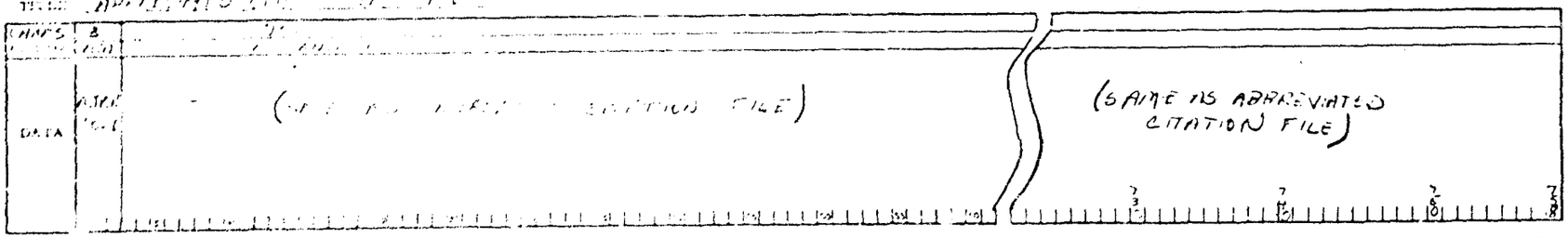
DATA	126 CHARACTERS CONVERTED TO JDC CODE FROM FLEXOWRITER CODE
DATA	
DATA	
DATA	

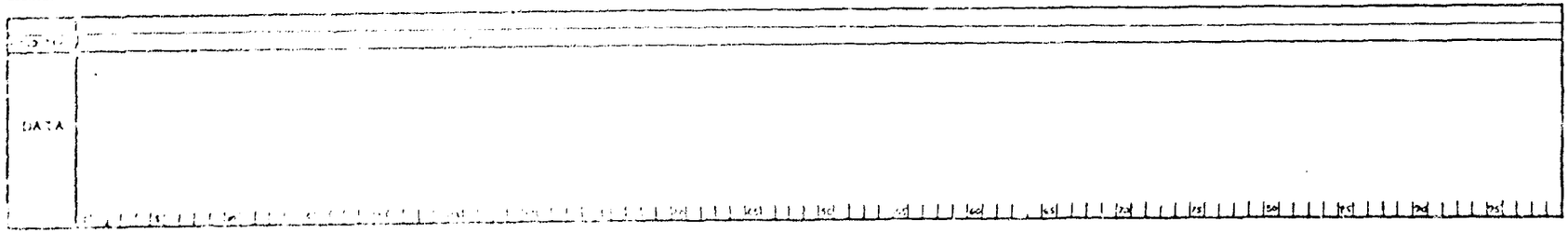
FILE NAME
RECORD LENGTH
BLOCKING FACTOR 1 : 1

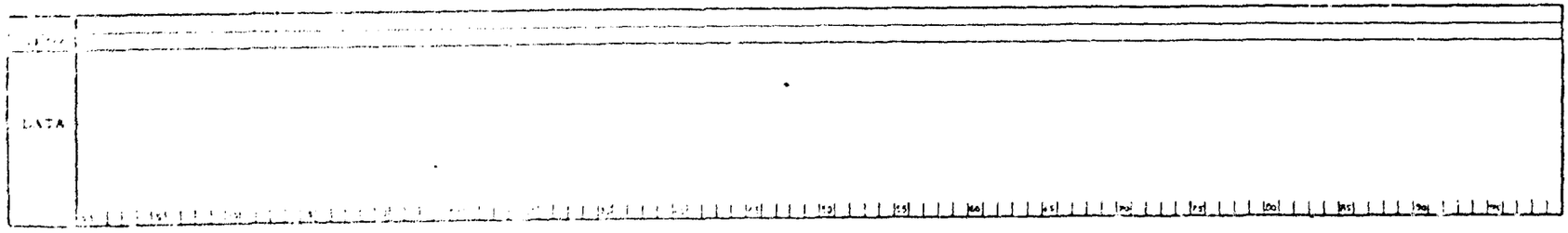
MEDIA Disk Pack

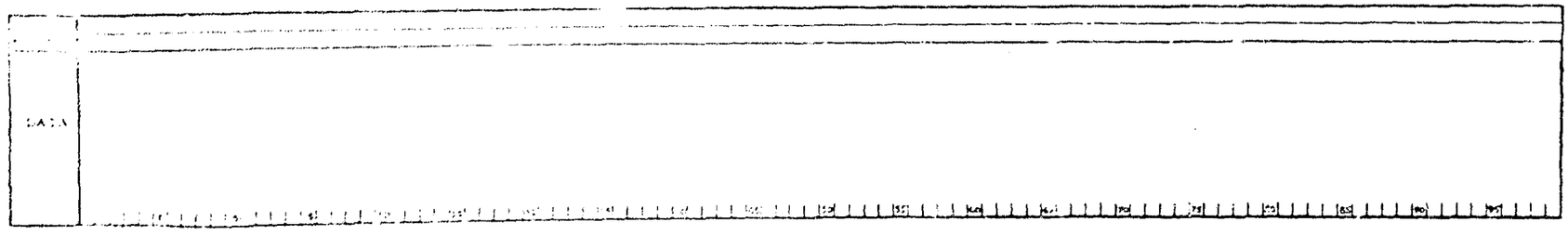
DATA PROCESSING STORAGE FORMAT

APPENDIX D





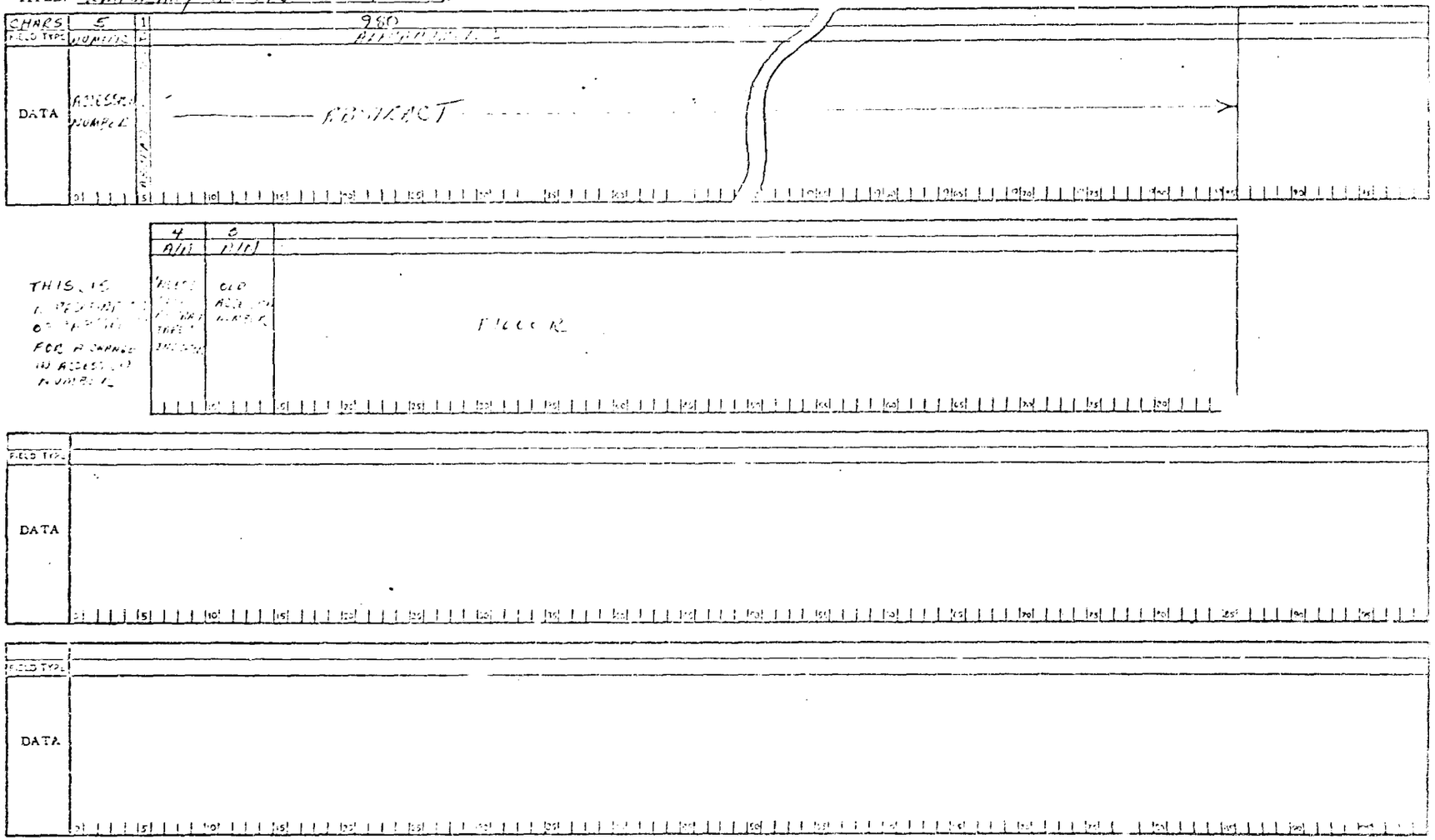




MEDIA: DISK PACK
TITLE: TEMPORARY ACCESS INPUT FILE

DATA PROCESSING STORAGE FORMAT

APPENDIX D



41-0

FILE NAME:
RECORD LENGTH:
BLOCKING FACTOR:

APPENDIX D

MEDIA: DISK PACK
TITLE: MID/GR ACCOUNT & ACCOUNTN TEMPORARY DISK FILES

DATA PROCESSING STORAGE FORMAT

CHARS	5	12	2	1	
FIELD TYPE	ACCOUNT #				
DATA	ACCOUNT #			FILE #	
FIELD TYPE					
DATA					
FIELD TYPE					
DATA					
FIELD TYPE					
DATA					

D-15

FILE NAME: ACCOUT & ACCOUTN
RECORD LENGTH: 17 CHARACTERS
BLOCKING FACTOR: 10:1

APPENDIX D

MEDIA: DISK PACK
TITLE: CHOSEN "GOLD", CHOSEN "BAD", GOOD IN, & BAD IN ACCESSION NUMBERS TEMPORY DISK FILES

DATA PROCESSING STORAGE FORMAT

FIELD NAME	5	2	2	8
FIELD TYPE	NUMERIC	N	N	ALPHANUMERIC
DATA	ACCESSION NUMBER	TYPE OF ACCESSION NUMBER	LIMITER	FILLER

FIELD TYPE
DATA

FIELD TYPE
DATA

FIELD TYPE
DATA

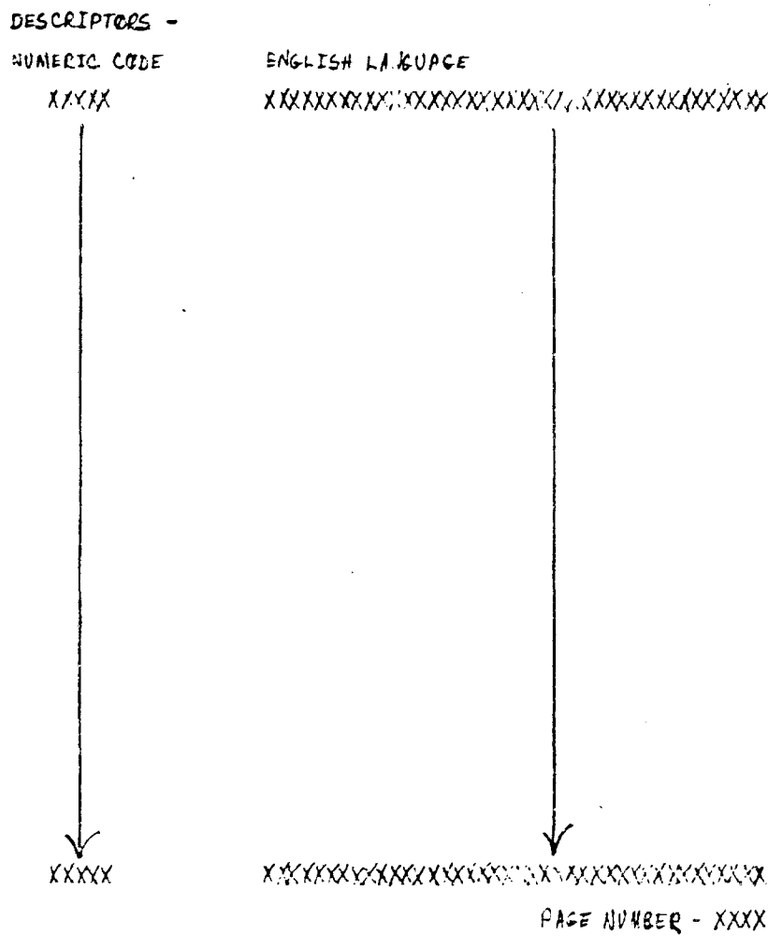
91-0

FILE NAME: GDACCIN, BDACCIN, CHOSENGD, & CHOSENBD
RECORD LENGTH: 17 CHARACTERS
BLOCKING FACTOR: 10:1

APPENDIX E
PRINTED OUTPUT FORMATS

APPENDIX E

UNCLASSIFIED THESAURUS LISTING DATE - DD/MM/YY



APPENDIX E

UNCLASSIFIED

THESAURUS LISTING

DATE - DD/MM/YY

- ADDITIONS - REPLACEMENTS - DELETIONS - (Total max of 85)

(NO ADDITIONS MADE TO THE THESAURUS THIS UPDATE. OR)
THE FOLLOWING DESCRIPTORS WERE ADDED TO THE THESAURUS -

NUMERIC CODE	ENGLISH LANGUAGE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(max of 85)

(NO DESCRIPTORS REPLACED IN THIS UPDATE. OR)
THE FOLLOWING ENGLISH LANGUAGE DESCRIPTORS WERE CHANGED -

NUMERIC CODE	THESE DESCRIPTORS BELOW REPLACED	THESE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(max of 85)

(NO DESCRIPTORS DELETED IN THIS UPDATE. OR)
THE FOLLOWING DESCRIPTORS WERE DELETED FROM THE THESAURUS -

NUMERIC CODE	ENGLISH LANGUAGE
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

(Max of 85)

PAGE NUMBER - X

III-2

APPENDIX E

UNCLASSIFIED
XXXXXXXXXXXXXXXXXXXX

MONTHLY ACCESSION LISTING
UNIT RECORD LISTING

REQUEST NUMBER - XXXXXXXXX

```
ACCESSION NUMBER - XXXXX        CORPORATE AUTHOR(S) - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
                                                      XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
TITLE - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
        XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
        XXXXXXXXXX             TITLE CLASSIFICATION - (X)         DATE OF REPORT - XXXXXXXXXX      SHORT TITLE - XXXXXXXXXX
REPORT TYPE AND DATES - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    NUMBER OF PAGES AND REFERENCES - XXXXXXXXXX
REPORT CLASSIFICATION - (X)    COPY NUMBER -   XXXXXXXXXXXXXXXXX  CONTROL NUMBER - XXXXXXXXXXXXXXXXXXXXX
CORPORATE AUTHOR CODE(S) - XXXXXXXXXX   XXX XXXXXX                SECURITY GROUP - X              RELEASE LIMITATIONS - XX
AUTHOR(S) - XXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXX  XXXXXXX   XXXXXXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXXX
            XXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXX  XXXXXXX   XXXXXXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXXX
ORIGINATING AGENCY SERIES - XXXXXXXXXXXXXXXXXXX  XXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
OTHER SERIES - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX     XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXXX    XX   XXXXXXXXXXXXXXX   TASK AND WORK UNIT NUMBERS - XXXXXXXXXX     XXXXXXXXXX
PROJECT NUMBER - XXXXXXXXXXXXXXXXXXXXXX    XXXXXXXXXXXXXXXXXXXX   NOFORN - XXXX
SUPPLEMENTARY NOTE CLASSIFICATION - (X)
SUPPLEMENTARY NOTE - XXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
DESCRIPTOR CLASSIFICATION - (X)
DESCRIPTORS -
```

1ST COLUMN OF DESCRIPTORS (16 DESCRIPTORS, A MAXIMUM OF 40 CHARACTERS LONG.)

2ND COLUMN OF DESCRIPTORS

3RD COLUMN OF DESCRIPTORS

```
ABSTRACT CLASSIFICATION - (X)
ABSTRACT - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

980 CHARACTER ABSTRACT

PAGE NUMBER - XXXX

UNCLASSIFIED
XXXXXXXXXXXXXXXXXXXX

APPENDIX E

SUPPRESSED AND CLASSIFIED RECORDS LISTING

ACCESSION NUMBER - XXXXX TITLE CLASSIFICATION - (X)

TITLE - X
X
/XXXX//XXX

USE LINE-NUMB-03 from NON ACCLIST

USE LINE-NUMB-04 from NON ACCLIST

(OR)

NO SUPPRESSED RECORDS THIS UPDATE

(OR)

NO CLASSIFIED RECORDS THIS UPDATE

E-4

PAGE NUMBER - XXXX

APPENDIX E

A LIST OF THE ACCESSION NUMBERS OF THE DOCUMENTS
CONTAINING INFORMATION ON XXXX/XXXXXXXX/XXXX/...

ACCESSION NUMBERS - XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX
XXXXX XXXXX

A LIST OF THE ACCESSION NUMBERS OF THE DOCUMENTS
CONTAINING INFORMATION ON XXX/XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

ACCESSION NUMBERS - XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX
XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX
XXXXX XXXXX XXXXX

A LIST OF THE ACCESSION NUMBERS OF THE DOCUMENTS
CONTAINING INFORMATION ON XXXXXXX/XXXXXXXXXX/XXXXXXXXXXXXXXXXXXXXX

ACCESSION NUMBERS - XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX
XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX
XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX

(CONTINUED ON THE NEXT PAGE)

APPENDIX E

APPENDIX E

PERSONAL AUTHOR LISTING

PERSONAL AUTHOR - XXXXXXXXXXXXXXXXXXX

ACCESSION NUMBER - XXXXX TITLE -

DATE OF REPORT - XXXXXXXXXX

OTHER PERSONAL AUTHOR(S) -

PERSONAL AUTHOR -

ACCESSION NUMBER - XXXXX TITLE -

DATE OF REPORT -

OTHER PERSONAL AUTHOR(S) -

PERSONAL AUTHOR -

ACCESSION NUMBER - XXXXX TITLE -

DATE OF REPORT -

OTHER PERSONAL AUTHOR(S) -

PERSONAL AUTHOR -

ACCESSION NUMBER - XXXXX TITLE -

DATE OF REPORT -

OTHER PERSONAL AUTHOR(S) -

PAGE NUMBER - XXXX

APPENDIX E

CORPORATE AUTHOR LISTING

```
CORPORATE AUTHOR - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX          TITLE - X<---------------------------------------->X
DATE OF REPORT - XXXXXXXXXX               X<---------------------------------------->X
                                          X<---------------------------------------->X
PERSONAL AUTHOR(S) - XXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXX
                     XXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXX
                     XXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXX

          OTHER CORPORATE AUTHOR - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CORPORATE AUTHOR - X<------------------------------------------>X
ACCESSION NUMBER - XXXXX          TITLE - X<---------------------------------------->X
DATE OF REPORT - XXXXXXXXXX               X<---------------------------------------->X
                                          X<---------------------------------------->X
PERSONAL AUTHOR(S) - X<-------->X   X<-------->X   X<-------->X   X<-------->X
                     X<-------->X   X<-------->X   X<-------->X   X<-------->X
                     X<-------->X   X<-------->X

          OTHER CORPORATE AUTHOR - X<------------------------------------------>X
CORPORATE AUTHOR - X<------------------------------------------>X
ACCESSION NUMBER - XXXXX          TITLE - X<---------------------------------------->X
DATE OF REPORT - XXXXXXXXXX               X<---------------------------------------->X
                                          X<---------------------------------------->X
PERSONAL AUTHOR(S) - X<-------->X   X<-------->X   X<-------->X   X<-------->X
                     X<-------->X   X<-------->X   X<-------->X   X<-------->X
                     X<-------->X   X<-------->X

          OTHER CORPORATE AUTHOR - X<------------------------------------------>X
CORPORATE AUTHOR - X<------------------------------------------>X
ACCESSION NUMBER - XXXXX          TITLE - X<---------------------------------------->X
DATE OF REPORT - XXXXXXXXXX               X<---------------------------------------->X
                                          X<---------------------------------------->X
PERSONAL AUTHOR(S) - X<-------->X   X<-------->X   X<-------->X   X<-------->X
                     X<-------->X   X<-------->X   X<-------->X   X<-------->X
                     X<-------->X   X<-------->X

                         PAGE NUMBER - XXXX
```

APPENDIX E

```
                                CONTRACT NUMBER LISTING
CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX        TITLE - X---------------------------------------->X
DATE OF REPORT - XXXXXXXXXX             X---------------------------------------->X
                                        X---------------------------------------->X
        OTHER CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX


CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX        TITLE - X---------------------------------------->X
DATE OF REPORT - XXXXXXXXXX             X---------------------------------------->X
                                        X---------------------------------------->X
        OTHER CONTRACT NUMBER - X---------->X


CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX        TITLE - X---------------------------------------->X
DATE OF REPORT - XXXXXXXXXX             X---------------------------------------->X
                                        X---------------------------------------->X
        OTHER CONTRACT NUMBER - X---------->X


CONTRACT NUMBER - XXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX        TITLE - X---------------------------------------->X
DATE OF REPORT - XXXXXXXXXX             X---------------------------------------->X
                                        X---------------------------------------->X
        OTHER CONTRACT NUMBER - X---------->X

                                PAGE NUMBER - XXXX
```

APPENDIX E

SERIES LISTING

SERIES - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX   TITLE - X-------------------------------------->X
X-------------------------------------->X
DATE OF REPORT - XXXXXXXXX   X-------------------------------------->X
OTHER SERIES - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

SERIES - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX   TITLE - X-------------------------------------->X
X-------------------------------------->X
DATE OF REPORT - XXXXXXXXX   X-------------------------------------->X
OTHER SERIES - X------------>X   X------------>X   X------------>X

SERIES - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX   TITLE - X-------------------------------------->X
X-------------------------------------->X
DATE OF REPORT - XXXXXXXXX   X-------------------------------------->X
OTHER SERIES - X------------>X   X------------>X   X------------>X

SERIES - XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ACCESSION NUMBER - XXXXX   TITLE - X-------------------------------------->X
X-------------------------------------->X
DATE OF REPORT - XXXXXXXXX   X-------------------------------------->X
OTHER SERIES - X------------>X   X------------>X   X------------>X

PAGE NUMBER - XXXX

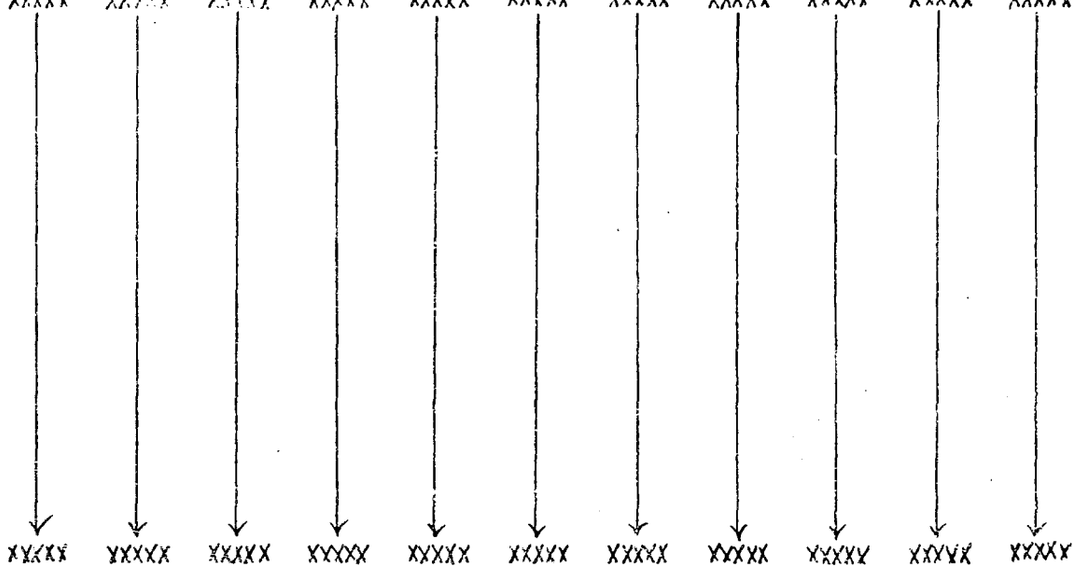
APPENDIX E

ACCESSION NUMBER LISTING

REQUEST NUMBER - XXXXXXXXX REQUESTER - XXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXX

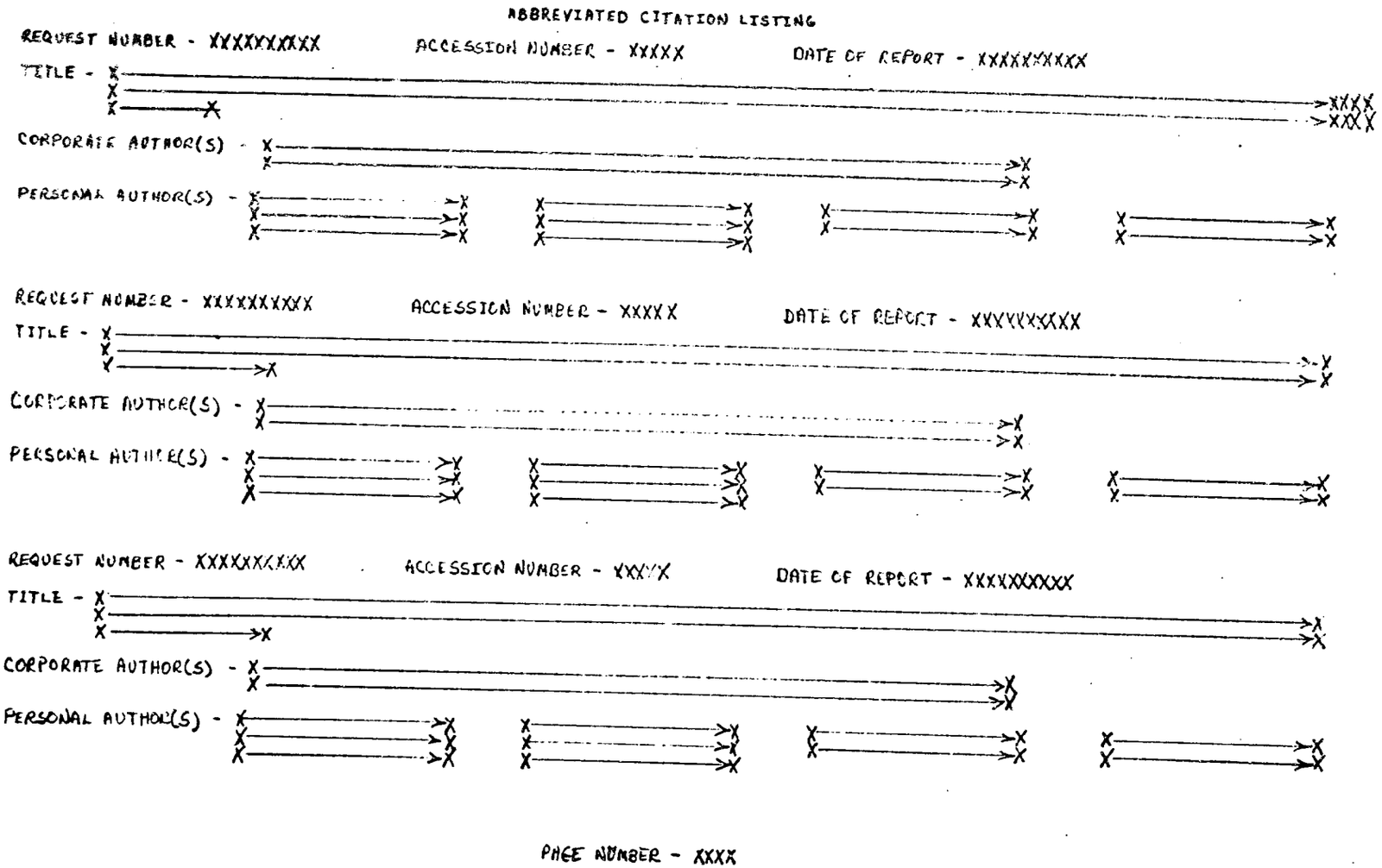
SEARCH CRITERIA - XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
OR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
OR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
OR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
OR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
OR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
BUT NOT XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
NOR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
NOR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
NOR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
NOR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX,
NOR X OF XXXXX, XXXXX, XXXXX, XXXXX, XXXXX.

ACCESSION NUMBERS RETRIEVED - XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX



PAGE NUMBER - XXXX

APPENDIX E


ABBREVIATED CITATION LISTING
REQUEST NUMBER - XXXXXXXXX
ACCESSION NUMBER - XXXXX
DATE OF REPORT - XXXXXXXXX
TITLE -
CORPORATE AUTHOR(S) -
PERSONAL AUTHOR(S) -
REQUEST NUMBER - XXXXXXXXX
ACCESSION NUMBER - XXXXX
DATE OF REPORT - XXXXXXXXX
TITLE -
CORPORATE AUTHOR(S) -
PERSONAL AUTHOR(S) -
REQUEST NUMBER - XXXXXXXXX
ACCESSION NUMBER - XXXXX
DATE OF REPORT - XXXXXXXXX
TITLE -
CORPORATE AUTHOR(S) -
PERSONAL AUTHOR(S) -
PAGE NUMBER - XXXX

APPENDIX H
OPERATING INSTRUCTIONS

3150 OPERATING INSTRUCTIONS

MAX.TIME 10 SEQUENCE NO. _____

RUN ID TP01 RUN NAME PAPER TAPE READ PROGRAM

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ STEP _____

FORE/BACK _____ MSOS/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
OUT:		01	TAPE IN	1	IN	[illegible]

CARDS:

IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK:

PACK NO. _____, _____, _____, _____

PRINTER:

LABEL _____ FORM NO. _____ PARTS ____ CARRIAGE TAPE _____

PAPER TAPE:

IN: LABEL [illegible] DISPOSITION [illegible]

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: MOUNT THE PAPER TAPE ON PAPER TAPE READER #1 AND READING PROGRAM DECK. READY THE P.T. READER. WHEN A STOP CODE IS ENCOUNTERED A MESSAGE "IS THERE MORE TAPE TO BE READ? TYPE YES OR NO." IF THERE IS MORE TYPE "YES"; LOAD THE TAPE, & TYPE "GO". IF NOT TYPE "NO". THE PROGRAM STOPS. THE MAGNETIC TAPE OUTPUT IS INPUT TO [illegible] (1202) PROGRAM.

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:

NO.	CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME 20 SEQUENCE NO. _____

RUN ID IR02 RUN NAME ONTODISK

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ STEP _____

FORE/BACK _____ MSOF/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
IN:		01	TAPE IN	1	OUT	SAVE
		02	OLD ARCHIVE	1	OUT	SAVE
OUT:						

CARDS:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK: ARCHIVE ACTION, DEARCHIVED DESCRIPTOR FILE, DICT. MARK I FILE
PACK NO. _____, _____, _____, _____

PRINTER:
LABEL _____ FORM NO. _____ COPIES ____ CARRIAGE TAPE _____

PAPER TAPE:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: THE MAGNETIC TAPE CREATED IN IR01 IS THE INPUT TO THIS PROGRAM. THE "OLD-ARCHIVE" TAPE MUST BE MOUNTED EACH TIME FOR LABEL CHECKING ALTHOUGH IT IS ACTUALLY ONLY NEEDED FOR PROCESSING INPUT RECORDS WITH ACTION CODES OF "CHA" & "CHG".

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:

NO. CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME 20 SEQUENCE NO. _____

RUN ID IRS2 RUN NAME IRS FILE [illegible]

REQUESTER _____ ATTN'D _____ AUTH. _____

COST CENTER _____ WORK CODE _____ CTE# _____

FORE/BACK _____ MSOF/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
IN:		01	OLD [illegible]	1	OUT	SAVE
OUT:		02	NEW [illegible]	1	IN	[illegible]

CARDS:
IN: LABEL [illegible] DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK: [illegible] S FILE
PACK NO. [illegible]

PRINTER:
LABEL _____ FORM NO. _____ CARS ____ CARRIAGE TAPE _____

PAPER TAPE:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: SEE APPENDIX C, page C-1 FOR THE FORMAT OF THE LISTING SUPPRESS CARD. A MAXIMUM OF 5 CARDS FOR A TOTAL OF 70 SUPPRESSED LISTINGS ON ANY ONE IRS-FMP RUN. THESE CARDS ARE THE ONLY CARDS INPUT TO IRS-FMP. THE HDFIN, ALTIN, & DATA FILES CONTAIN THE UNIT RECORDS INPUT TO SYSTEM.

SMUFD FORM 2000 (Test)
(Aug 68)

HALTS:

NO. CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME 10 SEQUENCE NO. _____

RUN ID IRD4 RUN NAME THESAURUS UPDATE (IRS-THES)

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ STEP _____

FORE/BACK _____ MSOS/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
IN:						
OUT:						

CARDS: THESAURUS LISTING

IN: LABEL THESAURUS UPDATE DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK:

PACK NO. THESAURUS, _____, _____, _____

PRINTER:

LABEL _____ FORM NO. _____ PARTS ____ CARRIAGE TAPE _____

PAPER TAPE:

IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS:

SEE APPENDIX C, page C-3, FOR THE FORMAT OF THE THESAURUS UPDATE CARD. 85 "AD", "RP", & "DL" CARDS IS THE MAXIMUM NUMBER THAT MAY BE INPUT IN ANY ONE RUN. THE THESAURUS LISTING CARD (SEE APPENDIX C page C-2) DETERMINES THE TYPE OF LISTING THAT ARE PRODUCED.

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:

NO.	CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME 5 SEQUENCE NO. _____

RUN ID IR05 RUN NAME THESAURUS SAVE PROGRAM

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ STEP _____

FORE/BACK _____ MEOF/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

	UNIT	LUN	LABEL	REEL	RING	DISPOCITION
IN: FOR "RESTORE"		02	THESAURUS	1	OUT	SAVE
OUT: FOR "SAVE"		01	THESAURUS	1	OUT	SAVE

CARDS:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK:
PACK NO. THESAURUS FILE, _____, _____, _____

PRINTER:
LABEL _____ FORM NO. _____ PARTS ____ CARRIAGE TAPE _____

PAPER TAPE:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: THIS PROGRAM SAVE & RESTORES THE THESAURUS DISK FILE. TO PERFORM THE SAVE, i.e., DISK TO TAPE, TYPE "DISKTAPE" WHEN REQUESTED. TO PERFORM THE RESTORE, i.e., TAPE BACK TO DISK, TYPE "TAPEDISK" WHEN REQUESTED.

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:
NO.

CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME 20 SEQUENCE NO. _____

RUN ID IR06 RUN NAME DICTIONARY FILE & SEARCH

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ STEP _____

FORE/BACK _____ MSOF/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
IN: FOR "RESTORE"		01	DICTIONARY FILE	1	OUT	SAVE
		02	SEARCH FILE	1	OUT	SAVE
OUT: FOR "SAVE"		01	DICTIONARY FILE	1	IN	SAVE
		02	SEARCH FILE	1	IN	SAVE

CARDS:

IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK: DICTIONARY SEARCH

PACK NO. FILE, FILE, _____, _____

PRINTER:

LABEL _____ FORM NO. _____ PARTS ____ CARRIAGE TAPE _____

PAPER TAPE:

IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: THIS PROGRAM SAVES & RESTORES THE TWO DISK FILES "DICTIONARY" & "THE SEARCH FILE". TO PERFORM THE SAVE, i.e. DISK TO TAPE, TYPE "DISKTAPE" WHEN REQUESTED. TO PERFORM THE RESTORE, i.e., TAPE BACK TO DISK, TYPE "TAPEDISK" WHEN REQUESTED.

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:

NO. CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME 10 SEQUENCE NO. _____

RUN ID IR07 RUN NAME ABBREVIATED CITATION FILE & DESCRIPTOR REST OF RECORD FILE SAVE PROGRAM

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ STEP _____

FORE/BACK _____ MSOS/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
FOR "RESTORE"		01	ABBREVIATED CITATION FILE	1	OUT	SAVE
		02	DESCRIPTOR, REST OF RECORD FILE	1	OUT	SAVE
OUT: FOR "SAVE"		01	ABBREVIATED CITATION FILE	1	IN	SAVE
		02	DESCRIPTOR, REST OF RECORD FILE	1	IN	SAVE

CARDS:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK:
PACK NO. ABBREVIATED CITATION FILE, DESCRIPTOR, REST OF RECORD FILE, _____, _____

PRINTER:
LABEL _____ FORM NO. _____ PARTS ____ CARRIAGE TAPE _____

PAPER TAPE:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: THIS PROGRAM SAVES & RESTORES THE TWO DISK FILES "ABBREVIATED CITATION" & "DESCRIPTOR-REST OF RECORD". TO PERFORM THE SAVE, I.E., DISK TO TAPE, TYPE "DISKTAPE" WHEN REQUESTED. TO PERFORM THE RESTORE, IE. TAPE BACK TO DISK, TYPE "TAPEDISK" WHEN REQUESTED.

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:

NO. CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME 15 SEQUENCE NO. _____

RUN ID IRS[illegible] RUN NAME IRSEARCH & SORTS

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ CTEP _____

FORE/BACK _____ MSOF/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
IN:						
OUT:						

CARDS:
IN: ~~LABEL~~ [illegible] DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK: [illegible] (TEMP ACCOUT)
PACK NO. [illegible], _____, _____, _____

PRINTER:
LABEL _____ FORM NO. _____ COPIES ____ CARRIAGE TAPE _____

PAPER TAPE:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: SEE APPENDIX C, page C-5. FOR THE FORMATS FOR "AND", "OR", "BUT NOT", & "NOR" CARDS. AT LEAST ONE "AND" CARD or ONE "OR" MUST BE INPUT TO EACH RUN. A MAXIMUM OF 12 CARDS, 1 "AND", 5 "OR", 1 "BUT NOT", & 5 "NOR", IS PERMITTED FOR EACH RUN. THE TWO OUTPUT FILES MUST BE SORTED USING THE APPROPRIATE SORTS PRIOR TO INPUT INTO IRSEARCH 2.

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:

NO.	CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME _____ SEQUENCE NO. _____

RUN ID IR09 RUN NAME IRSERCH2

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ OTEP _____

FORE/BACK _____ MEOF/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

	UNIT	LUN	LABEL	RUEL	RING	DISPOSITION
IN:		01	[illegible]	1	OUT	SAVE
OUT:						

CARDS:

IN: LABEL [illegible] DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK:

PACK NO. _____, _____, _____, _____

PRINTER:

LABEL _____ FORM NO. _____ CARDS ____ CARRIAGE TAPE STD.

PAPER TAPE:

IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: [illegible] HAS 3 MODES OF OPERATION: (1) AS THE FINAL SELECTIVE & PRINT [illegible] FOR THE PERSONAL DATA SCANNING ATTRIBUTES; (2) AS THE ONLY [illegible] FOR THE PERSONAL ADDRESS, COMMENTS AUTHOR, DATE [illegible] & SCORE NUMBER SCANNED; (3) AS THE PRINT DESCRIPTION FILE FOR

SMUFD FORM 2001 (Test) [illegible] OF THE WHOLE FILE
(Aug 68) "UNIT RECORD BY SEQUENCED NUMBER"

(OVER)

HALTS:
NO.

CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

(CONT)

TO PERFORM (1) THE OUTPUT FROM ISEARCH MUST HAVE BEEN SORTED PRIOR TO INPUT TO THIS PROGRAM. THE SAME SEARCH CRITERION CARDS SUBMITTED IN ISEARCH MUST BE RESUBMITTED WITH THIS PROGRAM PRECEDED BY A "NAME" CARD (SEE APPENDIX C, page C-4). TO PERFORM (2) REQUIRES NO PREVIOUS RUN OF ISEARCH. THE TWO CONTROL CARD INPUT ARE "SEARCH CARD" TO INDICATE TYPE OF LISTING DESIRED, & "SEARCH CARD 2" TO INDICATE TYPE OF SEARCH & GIVE THE SEARCH PARAMETERS. (SEE APPENDIX C, pages C-6, C-7). TO PERFORM (3) ALSO REQUIRES NO PREVIOUS RUN OF ISEARCH. THE SINGLE CONTROL CARD IS SHOWN IN APPENDIX C, PAGE C-9.

3150 OPERATING INSTRUCTIONS

MAX.TIME 20 SEQUENCE NO. _____

RUN ID IR10 RUN NAME ACCESSION NUMBERS BY DESCRIPTOR LISTING

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ STEP _____

FORE/BACK _____ MSOF/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

IN:	UNIT	LUN	LABEL	REEL	RING	DISPOCITION
OUT:						

CARDS:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK:
PACK NO. THE-SEARCH, THESAURUS, _____, _____

PRINTER:
LABEL _____ FORM NO. _____ PARTS ____ CARRIAGE TAPE STD

PAPER TAPE:
IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS: ONLY THE SEARCH FILE & THE THESAURUS FILE ARE NEEDED FOR THIS RUN. NO CARDS ARE INPUT. NO SORT IS NECESSARY.

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:

NO. CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

3150 OPERATING INSTRUCTIONS

MAX.TIME 15 MINUTES SEQUENCE NO. _____

RUN ID IR11, SORT, & IR12 RUN NAME SPECIAL LISTINGS 1) FORMCC 2) SORT S 3) ACCLIST

REQUESTER _____ ATTEND _____ AUTH. _____

COST CENTER _____ WORK CODE _____ STEP _____

FORE/BACK _____ MSOS/OTHER _____

JUMP SWITCH: 1. _____, 2. _____, 3. _____, 4. _____, 5. _____

MAG.TAPE:

	UNIT	LUN	LABEL	REEL	RING	DISPOSITION
IN:						
OUT:						

CARDS:

IN: LABEL SPECIAL LISTINGS OPTION CARD DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

DISK: ABBREVIATED

PACK NO. OPTION FILE, _____, _____, _____

PRINTER:

LABEL _____ FORM NO. _____ PARTS ____ CARRIAGE TAPE STD

PAPER TAPE:

IN: LABEL _____ DISPOSITION _____

OUT: LABEL _____ DISPOSITION _____

SPECIAL INSTRUCTIONS:

SEE APPENDIX C, PAGE C-8 FOR CARD FORMAT. EACH LIST REQUIRES A SEPARATE RUN OF "FORMCC", SORT, & "ACCLIST". TO RUN OPTION01, USE "OPTION01" CARD IN "FORMCC" & "ACCLIST"; ALSO USE CORRESPONDING SORT, i.e. SORT I. TO RUN OPTIONS 02 THRU 04 USE NECESSARY OPTION CARDS AND SORTS.

SMUFD FORM 2006 (Test)
(Aug 68)

HALTS:
NO.

CAUSE/CORRECTIVE ACTION

OPERATOR COMMENTS:

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY *(Corporate author)*
Wolf Research & Development Corporation

2a. REPORT SECURITY CLASSIFICATION
UNCLASSIFIED

2b. GROUP
Not Applicable

3. REPORT TITLE
Information Retrieval System - Vol I

4. DESCRIPTIVE NOTES *(Type of report and inclusive dates)*
Final Report

5. AUTHOR(S) *(First name, middle initial, last name)*
Jack D. Mahle, Jr. and Sally Lukasiewicz

6. REPORT DATE	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
28 November 1969	95	None

8a. CONTRACT OR GRANT NO.	9a. ORIGINATOR'S REPORT NUMBER(S)
DAAA-13-68-C-0173	
b. PROJECT NO.	None
c.	9b. OTHER REPORT NO(S) *(Any other numbers that may be assigned this report)*
d.	None

10. DISTRIBUTION STATEMENT
This document has been approved for public release and sale; its distribution is unlimited.

11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY
	Department of the Army Fort Detrick Frederick, Maryland 21701

13. ABSTRACT

The Fort Detrick Information Retrieval System is a system of computer programs written in COBOL for a CDC 3150 to store and retrieve information about the scientific and technical reports and documents of the Fort Detrick Technical Library. The documents and reports have been abstracted and their subject matter indexed using descriptors.

This abstract, the subject matter descriptors, the document's title, the personal authors, the corporate authors, the document's series and contract numbers, any security classifications, and other pertinent information about each of the documents or reports make up the master record of the Information Retrieval System. The size of this record is up to 2300 characters, 980 of which are allotted to the abstract and 240 for up to 48 5-digit numeric descriptor codes to indicate the document's subject matter.

As a means of accessing the information of the master file an additional file is used. It is called a search or inverted file and is used in a subject matter search of the master file. In addition to Boolean search capability, provision has been made for printing six book catalogs, e.g., personal author, corporate author, contracts, descriptors, etc. While the records of the master file are arranged by accession number of the individual document and the subject matter of that document is indicated by one or more descriptor codes, the inverted file records are arranged by descriptor.

System and detailed flow charts are being prepared and will be issued as Vol II.

DD FORM 1 NOV 68 1473 REPLACES DD FORM 1473, 1 JAN 64, WHICH IS OBSOLETE FOR ARMY USE.

Security Classification

Security Classification

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT

Security Classification