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CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAI--ETC F/G 5/1  
REAL ESTATE MODEL OF ACTIVITY PERFORMANCE (REMAP) USER'S MANUAL--ETC(U)  
JUL 78 C P ALTHEIDE

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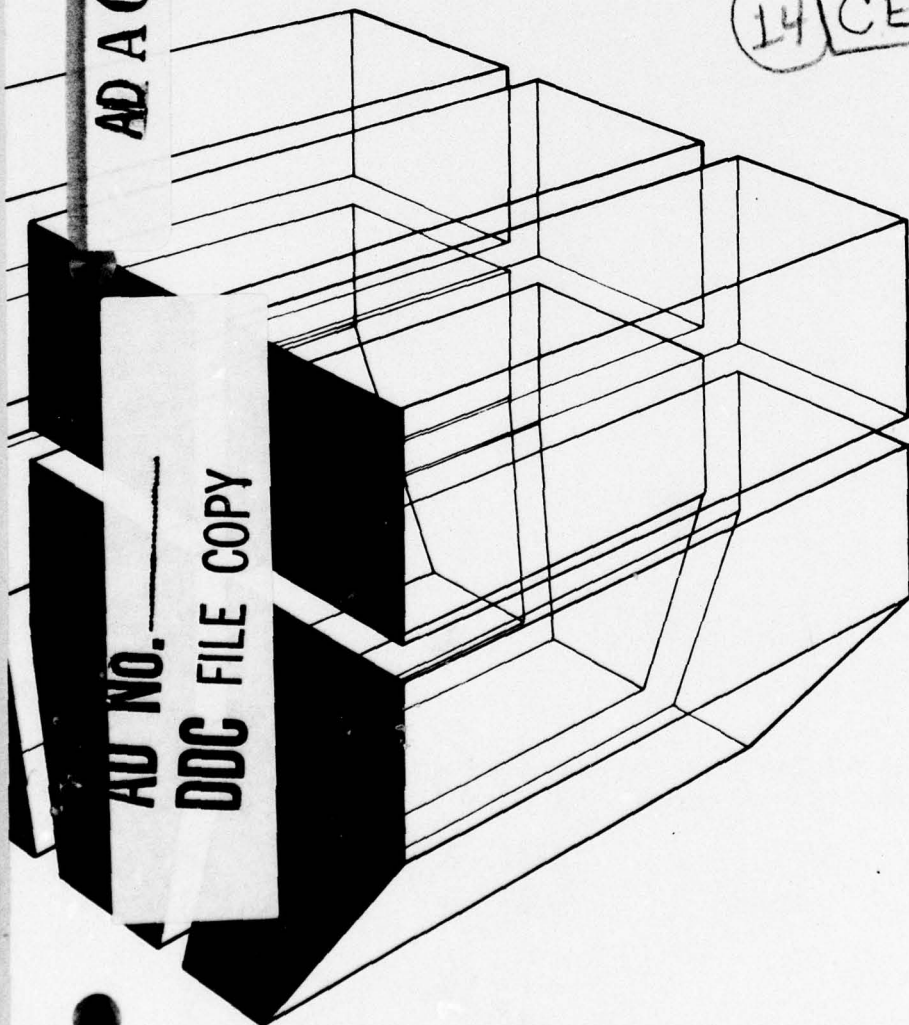
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REAL ESTATE MODEL OF  
ACTIVITY PERFORMANCE  
(REMAP) USER'S MANUAL

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10 by  
C. P. Altheide



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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The U.S. Army Construction Engineering Research Laboratory has developed a management model for analyzing alternative organizational locations of performance centers as Division, District, Field, or Project Offices for the Office of the Chief of Engineers, Directorate of Real Estate. This report describes the evaluation procedures and provides instructions for using the computer programs and performing the manual calculations required in the model, called the Real Estate Model of Activity Performance (REMAP). <span style="float: right;">702</span>		

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↙ The procedures involve computer and manual techniques for conducting comparative analyses of real estate activity assignments which are dependent on the locations--actual or proposed--of real estate activities and offices throughout CONUS. The analyses compare relative differences in dollar and manpower requirements for the performance and administration of real estate activities by various performance centers. REMAP uses computer-aided techniques to generate the annual workload of each performance center based on a selective assignment of activity locations to that center and to create visual displays of those assignments in the form of maps. ↘

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FOREWORD

This study was performed for the Office of the Chief of Engineers (OCE), Directorate of Real Estate, under the O&MA Program, Work Unit Title, "Real Estate Organization Study." The OCE Technical Monitor was Mr. E. W. Merli, (DAEN-REP). Additional guidance was provided by Mr. L. L. Pitchford, Jr., Chief, DAEN-REP.

The work was performed by the Facility Systems Division (FS), U.S. Army Construction Engineering Research Laboratory (CERL). The research was conducted under the supervision of Mr. C. P. Altheide, Principal Investigator. Mr. E. A. Lotz is Chief of FS.

COL J. E. Hays is Commander and Director of CERL, and Dr. L. R. Shaffer is Technical Director.

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REAL ESTATE MODEL OF ACTIVITY PERFORMANCE  
(REMAP) USER'S MANUAL

1 INTRODUCTION

Background

In August 1973, the Deputy Chief of Engineers directed that a study be made to identify and evaluate field organizational alternatives for the period from 1975 to 1980. The study was to select field organization options which would provide solutions to problems associated with workload imbalances, user relationships, geographical distribution of work, funding and manpower implications, relationships between Federal regional centers and state and local interests, and time and distance factors as they affect management.

In February 1975, the Corps' Directorate of Real Estate (DAEN-RE) requested that an in-house study be made of the geographical boundaries of Corps field offices having real estate responsibilities. The study was to determine the best and most efficient way in which to handle the DAEN-RE mission for the Corps. The problem, as stated, is that overlapping geographical areas of responsibility, workload imbalances, inconsistent manpower utilization, and excessive travel time and expense are detrimentally affecting the overall performance of the DAEN-RE mission. The guidelines for the study indicated that primary concern should be for the efficiency and economy of the DAEN-RE mission, and that real estate service to the Air Force and to the Civil Works and Military Construction Directorates would benefit if this primary objective were attained.

In the spring of 1975, the U.S. Army Construction Engineering Research Laboratory (CERL) proposed that the revised real estate boundaries for the field offices be analyzed using computer techniques.

Purpose

The purpose of this study was to develop a model of CONUS real estate activities to provide DAEN-RE with a management tool for evaluating various organizational alternatives. Procedures were to permit evaluation of specific "what-if" situations on a special case basis and to evaluate alternative assignments of real estate activities on an overall basis. The Real Estate Model of Activity Performance (REMAP) was developed in response to these objectives, and specific applications are described in the CERL Technical Report, *Real Estate*

*Organization Analysis Using the Real Estate Model of Activity Performance (REMAP) Evaluation Procedures.*<sup>1</sup>

The purpose of this report is to describe the (REMAP) evaluation procedures and provide the user with instructions for operating the computer programs and performing the manual calculations required in REMAP.

General Introduction to REMAP

REMAP analyzes alternative organizational locations of performance centers such as Division, District, field, or project offices. The procedures involve computer and manual techniques for conducting comparative analyses of real estate activity assignments which are dependent on the locations--actual or proposed--of real estate activities and offices throughout CONUS. The analyses compare relative differences in dollar and manpower requirements for the performance of real estate activities by various performance centers. REMAP uses computer-aided techniques to generate the annual workload of each performance center based on a selective assignment of activity locations to that center and to create visual displays of those assignments in the form of maps.

The computer programs in REMAP are written in FORTRAN extended for CDC 6000 series computers and are currently installed on a CDC 6700 computer at the Naval Ship Research and Development Center (NSRDC) in Bethesda, MD. Programs may be accessed in either interactive or batch mode. The job control language is SCOPE 3.4.2; source code is available on computer cards or magnetic tape. Inquiries about the availability of the program listings, source code, and system documentation should be addressed to U.S. Army, Office of the Chief of Engineers, Directorate of Real Estate (DAEN-RE), Washington, DC 20314.

Organization of Report

Chapter 2 describes the REMAP methodology. Chapter 3 describes the operating procedures which the user must follow in applying the model. Chapter 4 explains the input data for the nine real estate activities which can be analyzed using REMAP.

<sup>1</sup>C. P. Altheide, *Real Estate Organization Analysis Using the Real Estate Model of Activity Performance (REMAP) Evaluation Procedures*, Technical Report P-90 (U.S. Army Construction Engineering Research Laboratory, 1978).

### Mode of Technology Transfer

The REMAP evaluation procedures were developed for use by DAEN-RE as an in-house management tool. The computer program listings, source codes, and system documentation have been turned over to DAEN-RE along with this user's manual. Input data for the computer programs must be extracted from the Real Estate Master files maintained by the Engineer Data Processing Center (EDPC) and from quarterly reports submitted on ENG Forms 4564 and 1685. Division- and District-level evaluations of activity performance using the REMAP evaluation procedures requires access to these input data; i.e., to appropriate subsets of the data resident on the Real Estate Master Files. Requests for evaluations of alternative organizational locations of performance centers should be made through DAEN-REP. The *REMAP Evaluation Procedures* report is also available through DAEN-REP upon request. The REMAP evaluation procedures do not impact current Army or Engineer regulations.

## 2 REMAP METHODOLOGY

The REMAP evaluation procedures involve computerized and manual techniques. The basic steps in the procedure involve accessing an automated data processing (ADP) data base for a real estate activity, retrieving workloads and places of activity performance for a given time frame from this data base, and identifying the latitude and longitude of each CONUS real estate activity and of each actual and/or potential office location. Based on the user's criteria, activity locations are assigned to selected office locations. The expected costs and manpower required for that office to perform the activity workload at the assigned locations are then calculated using the computerized routines in REMAP. Performance dollars and manpower for a given assignment are compared with the existing assignment to ascertain potential performance savings. In addition, if the number of office locations is changed, total requirements for administrative dollars and manpower will also change. Administrative differences are manually calculated by the user, based on the choice of office locations. Adding the performance savings and administrative savings, if any, gives the total activity savings for the given assignment. Distinct real estate activities must be analyzed individually for each assignment. Activity savings, however, can be added to give total savings on a Corps-wide basis. The total savings of alternate assignments may then be compared.

The DAEN-RE activities which can be analyzed are Project Planning, Acquisition (Pre- and Post-Condensation), Inleasing, Outgranting, Disposals, Utilization and Compliance Inspections, and Relocation Assistance. Activities can be reassigned to actual or proposed performance centers in a number of ways; by reassigning all activities to the closest existing real estate performance center; by reassigning all activities to the closest performance center in a new list of centers (i.e., cities have been removed from and/or added to the list of existing offices); and by reassigning all activities at one or more performance centers to the closest remaining offices, with these other offices also maintaining their existing workloads. Partial reassignments of selected activities (e.g., all the activities performed by one organizational element) can also be analyzed with respect to each of the above assignments.

Techniques for retrieving the appropriate data for each activity are discussed in Chapter 4. Basically, the DAEN-RE activity master files at EDPC must be accessed and the data for the desired fiscal year extracted. A data file of latitudes and longitudes for those activity locations represented in the master file must be created and merged with the newly created subset of the master file. A computer program, MAPDATA, performs this merger, generates a list of unmatched activity locations, conveniently sorts the file, and then stores the coded names of the three offices (from a user-defined list) closest to the activity location and the respective distances. The user must

identify the latitude and longitude of the unmatched activity locations, update this information to the file, and rerun MAPDATA. Storage of the three closest offices allows subsequent analyses involving the deletion of some cities from the original list to be performed without rerunning MAPDATA.

A second computer program, MAP, uses the output of MAPDATA to calculate and print workload totals for each city in the list of selected performance centers. The original list consists of those cities with existing DAEN-RE District offices. Division totals for groups of cities are also calculated based on the user's coding system for such groups. A visual aid in the form of a map of the activity locations is displayed to permit determination of regions in CONUS where the activity level is high. Figure 1 illustrates a map of the Inleasing activity for FY75. Each character printed represents a location in CONUS where at least one lease was acquired or renewed in FY75. The alphabetic character is the FY75 code for the DAEN-RE Division office which had jurisdiction over the negotiation of that lease. The codes are included in Appendix A. Figure 2 illustrates a map of these same Inleasing activity locations reassigned to the closest DAEN-RE District office. Again the code for the corresponding Division office is printed.

The computerized procedures in REMAP have been simplified for easy interactive usage. After the data files are created, the user need only choose variations in parameters to perform an activity analysis. An interactive program called PROFILE has been developed to provide this simplicity. From the interactive COMMAND mode, the user attaches PROFILE and selects parameters which represent the desired activity to be analyzed, the type of assignment considered, the fiscal year of data, and some YES/NO responses to various alternatives, such as whether or not to rerun MAPDATA, print the entire output directly, keep the existing list of cities, or create a new list. The user also must name the files which are created while PROFILE is operating. When PROFILE has completed its execution, the desired maps and totals of expected costs and manpower requirements are either printed directly, partially retrieved, or batched to a different printer at the discretion of the user. The user then repeats this process to analyze an alternative assignment for the same activity or the same assignment for a different real estate activity. Chapter 3 presents examples.

INLEASING: EXISTING DIVISION OFFICE ASSIGNMENT (29 CITIES)

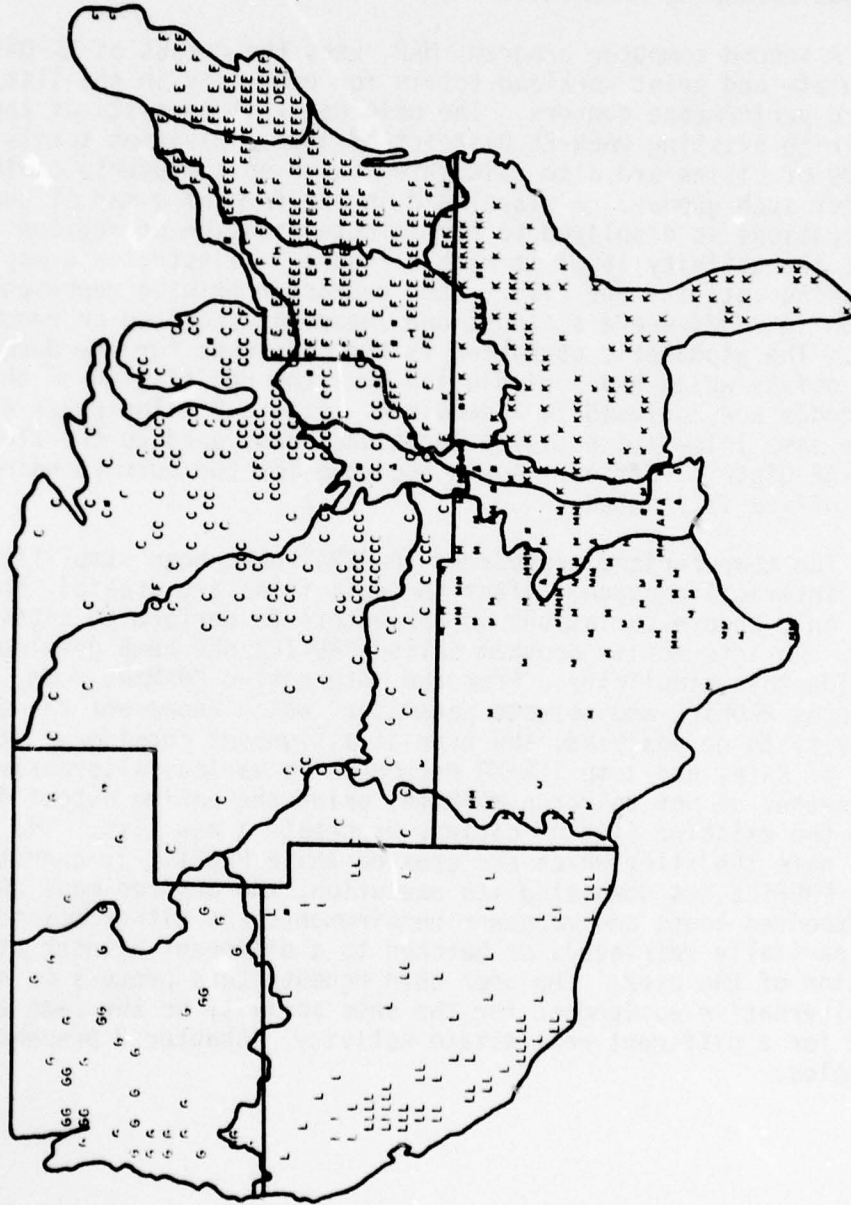


Figure 1. Map of Inleasing activity locations in FY75.

**INLEASING: DIVISION OF CLOSEST DISTRICT OFFICE  
ASSIGNMENT (29 CITIES)**

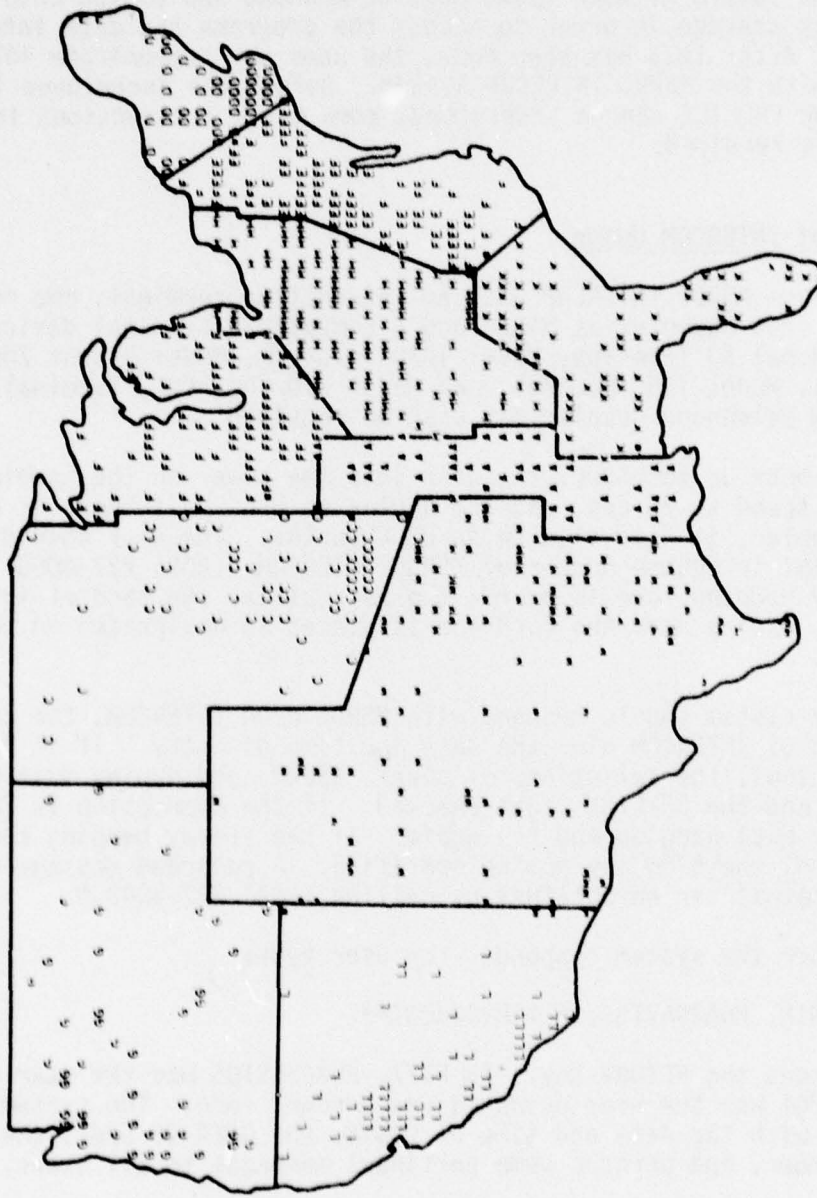


Figure 2. Map of FY75 Inleasing activity locations reassigned to the closest DAEN-RE performance center.

### 3 OPERATING PROCEDURES

The computer programs in REMAP and the FY75 and FY76 data on which calculations can be based are on magnetic tapes at NSRDC. These tapes and future FY data types must be mounted and copied onto permanent disk storage in order to access the programs and data interactively. After this has been done, the user may communicate interactively with the NSRDC INTERCOM System. Before the techniques for operating PROFILE can be understood, some basic instructions in INTERCOM usage are required.

#### Basics of INTERCOM Usage

To use NSRDC INTERCOM with an interactive terminal, one must use the CDC 6700 computer at NSRDC and a compatible terminal device (e.g., Model 33 Teletype, Model 1030 Teleterm, Model Silent 700 TI Terminal, Model 1280 Memorex, and Model 710 CDC [CRT] Terminal). A separate telephone coupler may also be required.

To hook up to NSRDC, the user sets the power on the terminal to ON, the speed to 30 cps, and the duplex to HALF. If there is a separate coupler, it must also be in HALF duplex. The user then dials the commercial telephone number of NSRDC INTERCOM, (202) 227-3000.\* When a steady beeping tone is heard, the user places the handset into the coupler, making sure the cord end is placed as designated on the coupler.

The system should respond with NSRDC 6700 INTERCOM, the current revision of INTERCOM plus the date and time of entry. If it does not respond thus, the selections of power, speed, and duplex must be rechecked and the ON-LINE light checked. If the connection is faulty, the user must hang up and try again. If the steady beeping tone is not heard, the 6700 may not be operating. A recorded message on "machine status" can be obtained by calling (202) 227-3043.\*

After the system responds, the user types

LOGIN, PUAJDAVIDS,\*\* 1189043801\*\*

and presses the RETURN key. In FY77, PUAJDAVIDS was the user name and 1189043801 was the user password and account code. The system should respond with the date and time of LOGIN, the USER-ID code, the EQUIP/PORT number, and perhaps some pertinent messages to all users. The

\*This phone number is subject to change.

\*\*LOGIN procedures, codes, and phone numbers are subject to change.

The user name, password, and account codes are created by NSRDC upon the establishment of an account.

system will be in the COMMAND mode and will indicate its readiness to accept commands via the remote terminal by displaying

#### COMMAND-

The user may then proceed to send commands to the system. Each time a desired command is typed, the RETURN key (or SEND key) must be pressed to send that command to the system. Throughout this report, pushing the RETURN key will be designated by -R-.

To exit from interactive usage, the user must be in the COMMAND mode and should send the command

#### LOGOUT -R-

The user should not hang up the phone until the system has responded with the time of logout and an estimated cost of usage.

The teletype terminals have special symbols and keyboard function keys. These are the RETURN, BREAK, CONTROL, and ESCAPE keys, which are described below.

1. RETURN Key (-R-). The RETURN key signals the end of a command or a line of input. If the teletypewriter line has a maximum of 72 characters, a full INTERCOM line of 80 characters can be input by depressing the line feed key and continuing the data on another teletypewriter line. When complete, the line can be transmitted by pressing the RETURN key.

2. BREAK Key. The BREAK key is used to recover from a temporary disconnection in the line. When a communication is disconnected, the BREAK light comes on. Pressing the BREAK key turns off the light. If the light remains off, the connection has been reestablished and normal operation can be resumed. If not, the user has been disconnected and must LOGIN again. If the time delay is long, local files may be lost. Permanent files would be retained, however.

3. CONTROL plus H Keys. Simultaneous pressing of the CONTROL and H keys physically backspaces the pointer and deletes the last character position from memory. The printed character is not physically erased but will not be transmitted. A new character can be typed in its place. CONTROL plus H can be repeated consecutively by holding down the CONTROL key and repeatedly pressing the H key.

4. CONTROL plus X Keys. Simultaneous pressing of the CONTROL and X keys terminates a line and prevents transmission of that line to INTERCOM. This keyboard function essentially deletes an entire line from memory. For convenience in visualizing the new line of printing, the RETURN or line feed key can be pressed.

5. ESCAPE Key. The ESCAPE key is pressed whenever the user wants to stop INTERCOM from communicating--for example, when a new roll of thermal paper must be installed during output transmission. Pressing the ESCAPE key interrupts the printing and puts INTERCOM in a holding position. Pressing the RETURN key allows printing to resume.

6. ESCAPE, %A. After pressing the ESCAPE key, typing %A and then -R- will abort the existing INTERCOM situation and return the user to the COMMAND mode.

### Commands

The user will send several commands to INTERCOM. The first and most important is the ATTACH command. It is used to attach permanent files to INTERCOM, and may be typed as follows:

```
COMMAND- ATTACH,F,PROFILE,ID=PUAJ -R-
```

In essence, this command states that the permanent file named PROFILE, cataloged under user identification PUAJ, should be attached to INTERCOM and be given the local file name F.

The second command, called the BEGIN command, tells INTERCOM to begin the execution of the PROFILE program. It is written as follows:

```
COMMAND- BEGIN(EX,F,-----) -R-
```

Since the local file name of PROFILE is F, this simply instructs INTERCOM to BEGIN EXecution of F. The information to follow F inside the parentheses is a list of user-selected parameters which are explained in the next section.

The next command is the BATCH command statement. If the user has chosen not to print the entire output of PROFILE on the local terminal, the BATCH command is required to print the output elsewhere. The user should send the following statement to INTERCOM:

```
COMMAND- BATCH,OUTPUT,PRINT,__,NAME -R-
```

This statement tells INTERCOM to batch the local file called OUTPUT to print at another terminal coded by \_\_ and name the output with a four-character code, so that the user may identify it later. The two-digit code to BATCH print at CERL is YX; to BATCH print at EDPC the code is \_\_. The user can create a list of codes for possible BATCH printing locations. To BATCH print to the user's remote output terminal the code is the User ID ØU, which was given to the user by INTERCOM after LOGIN.

To partially retrieve the output, the PAGE command should be used. The statement

COMMAND- PAGE,OUTPUT -R-

will allow the user to retrieve certain parts of the output file. After the user sends the PAGE command, the system responds with READY.. and waits for the user to respond. If the user sends a +, INTERCOM will print the first 10 lines in the file. If the user types a number, say 123, then the 10 lines starting with the 123rd line are printed. Lines may also be retrieved by means of a character string between slashes. If a 72-character terminal is being used but the file being paged is longer, including a tab set will shift the print-out over a designated number of columns. For example,

COMMAND- PAGE,OUTPUT -R-

READY..+=/COMPLETE TOTAL/,TAB=50 -R-

will retrieve the first line with "Complete Total" in it and print that line plus nine more, starting in column 50.

This example statement will be the usual partial retrieval statement for viewing the total expected costs and manpower requirements for one activity assignment.

A complete library of search statements for the PAGE command can be obtained, if desired, by sending

READY..A -R- but generally other search statements would not be used.

To abort PAGE, an "E" for END is sent.

Two additional commands may be sent by the user. The command statement

COMMAND- FILES -R-

will display the names of all the local and remote output files, if any. The statement

COMMAND- ETL,500 -R-

will Extend the Time Limit for the execution of PROFILE. An extension may be necessary when analyzing the Inleasing, Outgranting, Disposals, Compliance, and Utilization activities if the data files are extremely large. If the built-in time limit is exceeded in PROFILE, the program will abort, inform the user TIME LIMIT EXCEEDED, and return the user to the COMMAND mode. The user should then send an ETL command and repeat the BEGIN statement.

## BEGIN Parameters

As indicated on page 16, the BEGIN command requires a sequence of parameters following F, the local file name of PROFILE. The full command is as follows:

```
BEGIN (EX,F,A=_,T=_,YR=_,L=_,OC=_,NC=_,R=_,NF=_,DN=_,W=_)
```

The parameter A represents the Activity to be analyzed. An alpha-character code must be inserted after the equals sign. One of the following activity codes must be entered.

- A --- Acquisition (Pre-Conviction)
- B --- Acquisition (Post-Conviction)
- C --- Compliance Inspection
- D --- Disposal
- I --- Inleasing
- O --- Outgranting
- P --- Project Planning
- R --- Relocation Assistance
- U --- Utilization Inspection

For example, A=D would request analysis of the Disposal activity.

The parameter T represents the Type of assignment selected. One of the following must be entered.

T=1, which generates maps and totals for both the existing assignments and closest assignments of the activity locations to a user-defined list of cities.

T=2, which generates a map and the totals for a partial re-assignment of selected cities' activities to the closest of other cities on a given list, with those other cities also maintaining their existing workloads. This type can be used to evaluate the transfer of workload from one or more performance centers to a specific city, just by selecting the given list of cities, so that the desired city is also the closest city.

T=3, which generates a map and the totals for an assignment of activity workloads to a given list of cities based on state boundaries.

YR represents the fiscal year of data being analyzed. The last digit of the year is required. YR=5 and YR=6 are currently the only possible choices, since only FY75 and FY76 data are available.

L, OC, and NC are parameters which specify Lists of cities with which the user will work. OC stands for Old list of Cities, NC for

New list of Cities. The old list of cities currently consists of the existing Division and District office locations. The name of the permanent file is EXDDF. Permanent file names are limited to 30 alphanumeric characters, with the first one being alphabetic. EXDDF is a default file name for OC and will not be changed unless the user selects a different permanent file name. Since analyzing any reassignment requires comparison of distances with the existing situation, the old cities list will remain EXDDF until DAEN-RE changes its current organizational structure. Figure 3 is a copy of the EXDDF permanent file.

There are three choices for L, which is used to specify the status of NC:

L=C, which means that the user wants to Create a list of cities to which activities will be assigned. A unique permanent file name must be selected by NC.

L=N, which means that the user already has a list of cities to which activities will be assigned and that list will Not be changed. This list will already have a permanent file name to be used for NC.

L=AD, which means that the user wants to Add to the previously created list of cities. Again, a permanent file name will already be available to use for NC.

The parameter L has the default value of N. Thus, the user does not have to specify L in the BEGIN statement if L is equal to N. NC has a default value of EXDD2, which is a duplicate copy of EXDDF. If NC is the same as OC, then it need not be specified. If the user changes the list of cities (L≠N), then NC must be different from OC and hence must be specified.

R is a Yes or No parameter which indicates whether the user desires to Run the MAPDATA program within PROFILE. It is related to the NF parameter, which represents the Name of the permanent File created by MAPDATA, the program which merges the latitude/longitude file with the activity file to create an input file for the MAP program. This input file needs a unique permanent file name. Whenever MAPDATA is run, NF must be given that permanent file name. If MAPDATA is not to be run, there is already an existing permanent file name which must then be assigned to NF. MAPDATA will usually be run the first time an activity is analyzed, but rerun only if the list of new cities is dramatically changed. Consequently, R has a default value of N. NOTE: MAPDATA must be run (R=Y), whenever L≠N.

An additional permanent file of Division and District Names is generated by MAPDATA and must be identified by the user. DN is the parameter which represents this file name. It must be uniquely

A0	3221 9053	LMVD
A1	35 8 90 3	MEMPHIS
A2	2958 90 4	NEW ORLEANS
A3	3837 9012	ST. LOUIS
A4	3221 9053	VICKSBURG
C0	4117 96 1	MRD
C1	39 6 9435	KANSAS CITY
C2	4117 96 1	OMAHA
D0	4223 7114	NED
D1	4223 7114	BOSTON
E0	4043 74 0	NAD
E1	3917 7637	BALTIMORE
E3	4043 74 0	NEW YORK
E4	3651 7617	NORFOLK
E5	3957 7510	PHILADELPHIA
F0	4153 8738	NCD
F2	4153 8738	CHICAGO
G0	453212237	NPD
G2	453212237	PORTLAND
G3	473612220	SEATTLE
G4	46 411820	WALLA WALLA
H0	39 6 8431	ORD
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L1	34 411815	LOS ANGELES
L2	383512129	SACRAMENTO
M0	3247 9649	SWD
M1	35 510639	ALBUQUERQUE
M2	3245 9718	FT. WORTH
M3	2918 9448	GALVESTON
M4	3445 9217	LITTLE ROCK
M5	3610 9555	TULSA

Figure 3. EXDDF permanent file.

specified whenever MAPDATA is run (R=Y). DN is associated with NF, since they are created under similar conditions. It would be convenient for the user to choose a name which shows this association. For example, if R=Y and NF=XYZ, DN could be XYZDN.

The final BEGIN parameter is W. It is a Yes or No parameter signifying whether the user wants the entire output of PROFILE written directly on the interactive terminal (W=Y) or the user intends to partially retrieve and/or batch print the output elsewhere (W=N). The default value of this parameter is N, since it is anticipated that outputs will usually be printed elsewhere while subsequent analyses are being generated on the interactive terminal.

Those parameters in the BEGIN statement which have default values do not have to be specified if the user accepts the default value; that is, to state BEGIN (EX, F, -----, L=N, -----) is redundant, since the default value of L is N.

Appendix B contains a table of the BEGIN parameters' definitions, their acceptable values, and default values for quick reference.

The following examples of BEGIN statements should assist the user in establishing appropriate parameter values.

Example 1: The user wants to analyze the Inleasing activity by comparing the existing office assignment versus assignment to the closest existing offices using FY76 data. The user desires to retrieve the complete totals for each assignment and then have the maps and totals printed elsewhere. The BEGIN statement should be

```
BEGIN (EX,F,A=I,T=1,YR=6,R=Y,NF=INLEX, DN=INLEXDN) -R-
```

Explanation: For the Inleasing activity, A=I. To compare an existing situation versus assignment to the closest existing offices is a type-1 assignment, so T=1. FY76 data implies YR=6. Since the list of cities is the existing Division and District office locations, OC=EXDDF by default. The cities to which workloads will be assigned are the same, so the user accepts NC=EXDD2 and L=N by default. This is the first analysis of the Inleasing activity and MAPDATA must be run. Hence, R=Y, and the names of NF and DN are specified as INLEX (Inleasing EXisting situation) and INLEXDN. Note that the value of W is N (the default value) and was not specified.

Example 2: The user wants to analyze the Inleasing activity based on reassignment of the Inleasing workloads of three specific offices to their next closest office. All other offices would also maintain their existing workload. Output is to be partially retrieved interactively. The BEGIN statement should be

```
BEGIN (EX,F,A=I,T=2,YR=6,NF=INLEX, DN=INLEXDN) -R-
```

Explanation: This is a type-2 assignment (T=2) for the Inleasing activity (A=I). Again FY76 implies YR=6. As in Example 1, OC=EXDDF and NC=EXDD2 so OC and NC need not be specified. Since MAPDATA need not be run, the default value of R is accepted (R=N), and the output (INLEX) of the previously run MAPDATA must be used for NF. DN is unchanged. W=N by default. The three offices would be specified after the PROFILE program inquires about such.

Example 3: The user wants to analyze the Inleasing activity by comparing a reassignment of the Inleasing workloads to the closest of the 10 existing Division offices with a reassignment to a list having two additional cities (or 12 office locations). Output is to be partially retrieved and then batch-printed elsewhere. There are two assignments to consider--one with 10 cities, and one with 12. The BEGIN statements are

```
BEGIN (EX,F,A=I,T=1,YR=6,L=C,NC=DIV12,R=Y,NF=INL12,DN=INL12DN) -R-
```

and

```
BEGIN (EX,F,A=I,T=1,YR=6,NC=DIV12,NF=INL12,DN=INL12DN) -R-
```

Explanation: The choices of A, T, and YR should be clear. In the first case the user needs to create (within PROFILE) a list of the 12 cities; hence, L=C, and the name DIV12 is given to NC. OC is still EXDDF. MAPDATA will have to be run so that Inleasing activity locations can be assigned to the three closest cities in this list of 12 offices. New names must be given to NF and DN. In the second case the user may delete the two extra cities in the list of 12 within the PROFILE program to analyze the closest assignment to the 10 Division offices. It is therefore not necessary to change NC (L=N by default) nor to run MAPDATA again (R=N by default). NF and DN are still INL12 and INL12DN. Deletion of cities from the NC list is explained in the next section.

The user could have analyzed these two assignments in reverse order. However, NC would then have been a list of 10 cities (created within PROFILE) instead of 12. The first BEGIN statement would have been the same except for code names for NC, NF, and DN--perhaps DIV10, INL10, and INL10DN--but the second BEGIN statement would need L=AD in order to add the two additional cities. This would necessitate running MAPDATA a second time, resulting in higher computer charges.

## PROFILE

As mentioned in Chapter 2, PROFILE is an interactive program developed to simplify the computerized procedures in REMAP. Attaching the PROFILE program and sending a BEGIN statement with appropriate parameters is all that is required to begin execution of PROFILE.

Based on certain values of the L parameter, PROFILE asks the user a question and gives specific directions for the user's response.

When L is not its default value of N, the user wants either to create a new list of cities to which activity workloads will be assigned or to add locations to a previously created list of city locations. This list will be, or has been, named by the parameter NC, depending on whether L=C or L=AD. In the first case, PROFILE requests a permanent file to be named by NC; in the second case, PROFILE attaches the existing NC. In either case, the system will respond with the question:

DO YOU WANT TO CREATE THE OFFICE LIST OR JUST ADD SOME TO THE OLD ONE?

TYPE C FOR CREATE: TYPE A FOR ADD:

If L=C, then the user must type "C" again. The system will respond:

PLEASE ENTER EACH SET OF INFORMATION IN ONE LINE IN THE FOLLOWING FORMAT

XY ADAMLDDLM LOCATION

START FROM 1ST COLUMN, TYPE

X:DIV SYMBOL;USE ANY ALPHABETIC CHARACTER FROM A TO N EXCEPT I OR J;Y:DISTRICT NO.;ANY NUMBER FROM 0-9,0 MUST BE USED FOR DIVISION OFFICE;

...DO NOT CREATE A DISTRICT CODE UNLESS A DIVISION CODE IS ALSO CREATED OR ALREADY EXISTS...

THEN 4 BLANKS,AND

AD: 2 DIGITS FOR DEGREE OF LATITUDE;

AM: 2 DIGITS FOR MINUTE OF LATITUDE;

LDD:3 DIGITS FOR DEGREE OF LONGITUDE;

LM: 2 DIGITS FOR MINUTE OF LONGITUDE;

TYPE 1 BLANK, AND THEN

LOCATION:10 CHARACTERS FOR BRIEF NAME OF LOCATION

FOR EXAMPLE:

A0 4007 8815 CERL  
A1 4007 8815 CHAMPAIGN  
B0 3790 7700 OCE  
B1 3790 7700 WASH D.C.

...FOR ANY DUPLICATE XY IN THE LIST, ONLY THE FIRST OCCURRENCE WILL BE RECOGNIZED, OTHER(S) WILL BE IGNORED. AFTER ENTERING ALL DATA, PLEASE TYPE ++ IN THE FIRST TWO COLUMNS ON THE NEXT LINE...

The system will wait for the user to create the list of cities, line by line, until the "++" is sent; the permanent file for NC will then be cataloged. The user should be aware that the cities in the new list are potential Division and District offices. Division offices are identified with a District number of zero. District office codes must relate to a Division code or they will be ignored; i.e., C3 will be ignored as a District code if there is not a Division code of CØ.

If L=AD, the user must send an "A". In this case the system will respond by printing the current list NC and then the same instructions as illustrated for L=C. For example, if NC=EXDD2, the user's response of

```
C3      39441Ø459      DENVER
```

```
++
```

would add Denver as a District office under MRD's (CØ) jurisdiction. NC is recataloged with a higher cycle, so that now EXDD2 would have Denver on it. Any activity analysis which uses this augmented list will assign workloads to the closest of 30 performance centers. The user should recall from p 19 that whenever a new list of cities is created (L=C) or additions to an old list are made (L=AD), then MAP-DATA must be run (R=Y).

No other parameter in the BEGIN statement requires interactive responses. R and W are yes/no parameters and PROFILE will do what the user selects. OC, NC, NF, and DN are names of permanent files. Within PROFILE, the ATTACH command is used to attach the appropriate permanent files. However, if the files cannot be found, the system will inform the user

```
FILE NOT CATALOGED
```

```
PF ABORT
```

and the PROFILE program will abort. The system then returns the user to the COMMAND mode and the user must check for incorrect file names within the BEGIN statement. For example, if MAPDATA has already been run and the user accepts R=N, but inputs an incorrect name for NF, the system will abort because it cannot find that name. Other reasons for causing a PF abort (besides typing errors) would be if the data are not available for the desired YR or the time limit is exceeded (see ETL command). If there are any problems with lost or missing files, the user may call the NSRDC User Service number 202-227-1907\* for assistance.

---

\*This phone number is subject to change.

In the MAP program within PROFILE, expected dollar and manpower requirements are calculated based on the activity workloads assigned to an office and the number of trips required to perform that activity. System values for each fiscal year must be determined in advance and stored along with the activity data. Techniques for determining these system values are explained in Chapter 4.

However, the user may change one or more of these values during various analyses interactively within PROFILE if desired. In fact, the system will always ask the user

```
WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,NO. OF
TRIPS,FIXED COST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?
IF YES TYPE Y;OTHERWISE TYPE N:
```

If the user types "N", PROFILE will go on to its next question. If the user types "Y", the system will inquire about each one of the six values separately and print the current value, asking, for example,

```
WANT TO CHANGE VALUE OF COST/UNIT? =      622.280 BY DEFAULT
IF NOT,TYPE N,O.W.TYPE Y:
```

"O.W." stands for "otherwise."

Then it waits for the user to send either a "Y" or an "N". Whenever the response is "Y", the system asks the user to type in the new value. Figure 4 is a sample of the interactive response for the Acquisition (Post-Condemnation) activity, where the number of trips is changed to 5 from its default value of 3.

The next question asked in PROFILE concerns the deletion of cities from NC. The system asks

```
WANT TO DELETE ANY DISTRICT? TYPE Y OR N:
```

If the response is "Y", the system states

```
PLEASE ENTER THE DIVISION SYMBOL(S) AND DISTRICT NO.(S) WHICH
ARE TO BE DELETED WITH ONE BLANK IN BETWEEN AND ENTER THEM ALL
IN ONE LINE...USE ANY CHARACTER FROM A TO N EXCEPT I OR J FOR
DIVISION SYMBOL;...ANY NUMBER FROM 1 TO 9 FOR DISTRICT NO. ...
```

If the user were to type "D1 L2" and press RETURN, no activity workload would be assigned to District offices D1 or L2 in a type 1 (T=1) assignment. In a type 2 assignment, only their existing workloads would be reassigned to the next closest performance center.

This step concludes the inquiring portion of PROFILE. PROFILE will then continue to execute until it is finished. The system will

```

COMMAND- BEGIN(F,A=B,T=1,OF=BNSM,DN-BNSMDN)
WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,NO. OF TRIP,FIXED C
OST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?
IF YES,TYPE Y;OTHERWISE TYPE N:
PF CYCLE NO. = 001
PF CYCLE NO. = 002
CM LWA+1 = 2122B, LOADER USED 33300BY
WANT TO CHANGE VALUE OF COST/UNIT? = 622.280 BY DEFAULT
IF NOT, TYPE 'N',O.W. TYPE 'Y':N
WANT TO CHANGE VALUE OF MAN YR/UNIT?= .029 BY DEFAULT
IF NOT,TYPE 'N',O.W. TYPE 'Y':N
WANT TO CHANGE VALUE OF NO. OF TRIP? = 3.000 BY DEFAULT
IF NOT,TYPE 'N',O.W. TYPE 'Y':Y
TYPE NO. OF TRIP:5
WANT TO CHANGE VALUE OF FIX COST/DIST OFFICE?= 20851.620 BY DEFAULT
IF NOT,TYPE 'N',O.W. TYPE 'Y':N
WANT TO CHANGE VALUE OF FIX MAN YR/DIST OFFICE? = .330 BY DEFAULT
IF NOT, TYPE 'N',O.W. TYPE 'Y':N
WANT TO CHANGE VALUE OF AVG WAGE/DAY?= 61.470 BY DEFAULT
IF NOT,TYPE 'N',O.W. TYPE 'Y':N

```

Figure 4. Sample interactive response for Acquisition (Post-Conviction) activity: change number of trips from default value of 3 to 5.

indicate to the user where it is in its execution stage. If MAPDATA is being run, the system will indicate when it is done by stating

END MAPDATA

and the quantity of system seconds used. If any permanent files have been created and cataloged, the system will print pertinent information about them. PROFILE will indicate when it has finished the MAP program by stating

END AMAPT

and the execution time in system seconds. The first "A" and the "T" in AMAPT are the activity parameter A and the type parameter T, the values of which would be printed here; i.e., if Inleasing were being analyzed with a type 2 assignment, this statement would be

END IMAP2

and the corresponding execution time.

PROFILE will then return the user to the COMMAND mode, provided W=N. If W=Y, the entire output will be printed directly on the user's local terminal. From the COMMAND mode, the user may either partially retrieve information from OUTPUT by using the PAGE command or batch print the entire output elsewhere, as explained on p 17.

### Output

Output of the PROFILE program includes maps of activity locations throughout CONUS and the totals of expected costs and manpower requirements to perform the activity workload at those locations when assigned to various performance centers.

For a type-1 assignment, two pairs of maps are displayed for each activity. The first pair shows the existing assignment for the given fiscal year of data. Activity locations are identified by the alpha-character code for the Division to which the performance center belongs and then by the numeric-character code for the District office (or performance center) which performed the activity there. The codes are taken from EXDDF, the list of old cities. For display purposes, the latitudes and longitudes for each location were rounded off to the nearest half-degree and stored in an appropriate rectangular array prior to being printed. In this existing assignment, it is quite possible that two distinct character codes had to be stored in the same place, in which case the symbol # is printed.

The second pair of maps for a type-1 assignment shows the assignment of all activity locations to the closest performance center on

the list of cities in NC, with reassignment to the next closest city in the event the user deleted some cities from NC. As before, an alpha-character code is printed for the Division having jurisdiction over the performance center to which the activity location was assigned and then a numeric-character code is printed for the respective performance center. Figures 1 and 2 in Chapter 2 are examples of the first maps in each pair for the existing and closest assignment of the Inleasing activity locations.

Similarly, two maps are displayed for a type-2 assignment in which activity locations currently assigned to some performance centers are reassigned to the next closest city still on NC. Those cities not deleted from NC would also maintain their existing workload. If no cities are deleted from NC, the type-2 assignment maps are identical to the existing situation.

Following the maps is a complete breakdown of the activity workload units for the selected Division and District performance centers. A record of the type of activity workload unit is printed, along with the expected costs and man-years required to perform those units, the fixed costs and fixed man-years required to have the capability of performing any units for that activity, and subtotals and totals for each District, each Division, and the Corps. The existing assignment totals are printed first, followed by the closest assignment totals. The last line of an assignment total is the

COMPLETE TOTAL THIS ASSIGNMENT

and is typically the line retrieved by using the PAGE command prior to batch printing the maps and District totals to some alternate terminal.

An example printout of the totals for a type-1 assignment is shown in Figure 5 for the Inleasing activity where OC=EXDDF and NC=EXDD2.

The user should now be sufficiently acquainted with the computerized techniques in REMAP to perform some trial analyses. The three examples in the BEGIN Parameters section of this chapter are suitably realistic cases. It is recommended that the user attempt to execute at least example 1 before reading further. It is also recommended that the user perform type-1 analyses for all the real estate activities for each fiscal year of data considered. The complete interactive responses to the examples are presented in Appendix C.

### Performance Analysis

Once PROFILE has completed its execution and the complete totals for the chosen assignment have been retrieved, the analysis of the

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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT OF THE EXISTING DISTRICT OFFICE

DEVISION	INLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMWD				
	R	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A2 AT NEW ORLEAN		4	11606.00	.83
	N	4	956.00	.56
	R	1	239.00	.14
ACT TOTAL		5	1195.00	.70
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	11845.00	.97
	N	13	3107.00	1.82
	R	2	478.00	.28
ACT TOTAL		15	3585.00	2.10
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A4 AT VICKSBURG		15	14235.00	2.37

Figure 5. Example printout for Type-1 assignment for Inleasng activity (OC=EXDDF and NC=EXDD2).

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		N	21	5019.00	2.94
		P	4	956.00	.56
ACT TOTAL					
ACT FIRED					
TOTAL FOR THE DIVISION			25	5975.00	3.50
				42600.00	1.09
			25	48575.00	4.59
-----					
C: MPO		N	85	20315.00	11.00
		P	35	8365.00	4.90
ACT TOTAL					
ACT FIRED					
TOTAL FOR DISTRICT C1 AT KANSAS CIT			120	26680.00	16.80
				10650.00	.27
			120	39330.00	17.07
-----					
C: MPO		N	564	134796.00	78.96
		P	271	64769.00	37.94
ACT TOTAL					
ACT FIRED					
TOTAL FOR DISTRICT C2 AT OMAHA			835	199565.00	116.90
				10650.00	.27
			835	210215.00	117.17
-----					
C: MPO		N	649	155111.00	90.86
		P	306	73134.00	42.84
ACT TOTAL					
ACT FIRED					
TOTAL FOR THE DIVISION			955	228245.00	133.70
				21300.00	.55
			955	249545.00	134.25
-----					
D: MFD					
ACT TOTAL			0	0.00	0.00
ACT FIRED				10650.00	.27
TOTAL FOR DISTRICT D1 AT BOSTON			0	10650.00	.27

Figure 5 (con't)

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ACT TOTAL									
ACT FIREN									
TOTAL FOR THE DIVISION									
E: MD									
ACT TOTAL									
ACT FIREN									
TOTAL FOR DISTRICT E3 AT BALTIMORE									
E: NY									
ACT TOTAL									
ACT FIREN									
TOTAL FOR DISTRICT E3 AT NEW YORK									
E: MO									
ACT TOTAL									
ACT FIREN									
TOTAL FOR DISTRICT E4 AT MOBILE									
E: PA									
ACT TOTAL									
ACT FIREN									
TOTAL FOR DISTRICT E5 AT PHILADELPH									
E: IL									
ACT TOTAL									
ACT FIREN									
TOTAL FOR DISTRICT F2 AT CHICAGO									

Figure 5 (con't)

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81: MPO					
ACT TOTAL	2	478.00			.28
ACT FIRE	2	478.00			.28
ACT FIRE	2	10650.00			.27
TOTAL FOR DISTRICT G2 AT PORTLAND	2	11128.00			.55
-----					
ACT TOTAL	191	45649.00			29.74
ACT FIRE	191	45649.00			29.74
ACT FIRE	210	50190.00			.27
ACT FIRE	210	10650.00			.27
TOTAL FOR DISTRICT G3 AT SEATTLE	210	60049.00			29.67
-----					
ACT TOTAL	1	239.00			.14
ACT FIRE	1	239.00			.14
ACT FIRE	1	10650.00			.27
TOTAL FOR DISTRICT G4 AT WALLA WALL	1	10889.00			.41
-----					
ACT TOTAL	194	46346.00			27.16
ACT FIRE	194	46346.00			27.16
ACT FIRE	213	50907.00			.27
ACT FIRE	213	31950.00			.27
TOTAL FOR THE DIVISION	213	82857.00			30.64
-----					
M1: MPO					
ACT TOTAL	0	0.00			0.00
ACT FIRE	0	10650.00			.27
TOTAL FOR DISTRICT H1 AT MOUNTINGTON	0	10650.00			.27
-----					
ACT TOTAL	4	956.00			.56
ACT FIRE	4	956.00			.56
ACT FIRE	4	10650.00			.27
TOTAL FOR DISTRICT H2 AT LOUISVILLE	4	11606.00			.83
-----					
ACT TOTAL	1	239.00			.14
ACT FIRE	1	239.00			.14
ACT FIRE	1	10650.00			.27
TOTAL FOR DISTRICT H3 AT NASHVILLE	1	10889.00			.41
-----					
ACT TOTAL	2	478.00			.28
ACT FIRE	2	478.00			.28
ACT FIRE	2	10650.00			.27
TOTAL FOR DISTRICT H4 AT PITTSBURGH	2	11120.00			.55

Figure 5 (con't)

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ACT TOTAL	7	1673.00	.00
ACT FIRED	7	1673.00	.00
TOTAL FOR THE DIVISION	7	62773.00	2.07
FI 540			
ACT TOTAL	6	1434.00	.00
ACT FIRED	6	1434.00	.00
TOTAL FOR DISTRICT #3 AT JACKSONVILLE	6	12000.00	1.11
FI 540			
ACT TOTAL	276	65400.00	30.20
ACT FIRED	291	65500.00	60.76
TOTAL FOR DISTRICT #5 AT MOBILE	565	128035.00	16.10
ACT TOTAL	565	165605.00	.27
ACT FIRED	565	165605.00	76.37
FI 540			
ACT TOTAL	120	33221.00	19.00
ACT FIRED	117	6863.00	2.30
TOTAL FOR DISTRICT #6 AT SAVANNAH	156	37280.00	21.00
ACT TOTAL	156	18650.00	.27
ACT FIRED	156	67930.00	22.11
LI 500			
ACT TOTAL	613	98787.00	57.82
ACT FIRED	316	75666.00	63.66
TOTAL FOR THE DIVISION	127	17752.00	161.70
ACT TOTAL	127	3195.00	.42
ACT FIRED	127	295703.00	102.00
LI 500			
ACT TOTAL	271	84700.00	37.00
ACT FIRED	26	6210.00	3.00
TOTAL FOR DISTRICT L1 AT LOS ANGELES	297	78003.00	61.50
ACT TOTAL	297	16676.00	.27
ACT FIRED	297	81633.00	61.05
LI 500			
ACT TOTAL	120	32045.00	10.00
ACT FIRED	110	2500.00	1.40
TOTAL FOR DISTRICT L2 AT SACRAMENTO	145	34655.00	20.20
ACT TOTAL	145	15650.00	.27
ACT FIRED	145	65305.00	20.57
LI 500			
ACT TOTAL	666	97030.00	50.00
ACT FIRED	36	8000.00	5.00
TOTAL FOR THE DIVISION	640	105030.00	61.00
ACT TOTAL	640	21300.00	.50
ACT FIRED	640	106930.00	60.50

Figure 5 (con't)

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MI	SWD								
		N							
		D							
ACT TOTAL		14	4307.00	2.52					
ACT FTRD		17	2448.00	1.68					
TOTAL FOR DISTRICT M1 AT ALBUQUERQUE		36	7176.00	4.20					
		36	18450.00	.27					
		36	17820.00	6.67					
		N							
		D							
ACT TOTAL		118	29202.00	16.52					
ACT FTRD		73	17687.00	10.22					
TOTAL FOR DISTRICT M2 AT FT. WORTH		191	46889.00	26.74					
		191	10650.00	.27					
		191	56299.00	27.01					
		N							
		D							
ACT TOTAL		52	12420.00	7.20					
ACT FTRD		52	12420.00	7.20					
TOTAL FOR DISTRICT M3 AT GALVESTON		52	18650.00	.27					
		52	23070.00	7.55					
		N							
		D							
ACT TOTAL		16	3924.00	2.24					
ACT FTRD		13	3107.00	1.82					
TOTAL FOR DISTRICT M4 AT LITTLE ROCK		29	6931.00	4.06					
		29	10650.00	.27					
		29	17501.00	4.33					
		N							
		D							
ACT TOTAL		98	9560.00	5.60					
ACT FTRD		2	478.00	.28					
TOTAL FOR DISTRICT M5 AT TULSA		42	10038.00	5.88					
		42	10650.00	.27					
		42	20688.00	6.15					
-----									
ACT TOTAL		244	56316.00	34.14					
ACT FTRD		100	23000.00	14.00					
TOTAL FOR THE DIVISION		344	82216.00	48.14					
		344	53250.00	1.37					
		344	135466.00	49.52					
-----									
COMPLETE TOTAL TRIC ASSIGNMENT		3699	1171001.00	413.10					

Figure 5 (con't)

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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE

DIVISION	INCREASING TYPE	WORKLOAD (UNITS)	COST(S)	EFF. Man/Yr
<b>AT LEVD</b>				
N		124	25849.07	17.27
P		54	14317.22	8.26
ACT TOTAL				
ACT FIRED		103	30366.79	25.53
TOTAL FOR DISTRICT A1 AT VICKSBURG		103	10650.00	.27
			58816.79	25.81
<b>CT WED</b>				
N		124	25849.07	17.27
P		54	14317.22	8.26
ACT TOTAL				
ACT FIRED		103	30366.79	25.53
TOTAL FOR THE DIVISION		103	10650.00	.27
			58816.79	25.81
<b>B: WED</b>				
N		294	74985.18	41.52
P		142	36072.40	19.92
ACT TOTAL				
ACT FIRED		434	111057.58	61.44
TOTAL FOR DISTRICT C2 AT OMAHA		434	10650.00	.27
			121707.58	61.72
<b>D: WED</b>				
N		294	74985.18	41.52
P		142	36072.40	19.92
ACT TOTAL				
ACT FIRED		434	111057.58	61.44
TOTAL FOR THE DIVISION		434	10650.00	.27
			121707.58	61.72
<b>D: WED</b>				
N		209	36722.68	29.02
P		14	2591.79	1.04
ACT TOTAL				
ACT FIRED		223	39314.46	34.96
TOTAL FOR DISTRICT D4 AT BOSTON		223	10650.00	.27
			49964.46	31.23

Figure 5 (con't)

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ACT TOTAL	299	36722.68	29.82
ACT FIBER	14	2591.79	1.95
TOTAL FOR THE DIVISION	223	39314.46	30.96
	223	10650.00	.27
	223	49864.46	31.23
-----			
FI MAD	488	131945.37	68.61
	17	4507.93	2.39
ACT TOTAL	505	136453.30	71.00
ACT FIBER	505	10650.00	.27
TOTAL FOR DISTRICT FA AT NEW YORK	505	147103.30	71.27
-----			
ACT TOTAL	488	131945.37	68.61
ACT FIBER	17	4507.93	2.39
TOTAL FOR THE DIVISION	505	136453.30	71.00
	505	10650.00	.27
	505	147103.30	71.27
-----			
FI MCD	318	31651.75	42.68
	148	14989.85	19.28
ACT TOTAL	458	46641.60	61.96
ACT FIBER	458	10650.00	.27
TOTAL FOR DISTRICT FA AT CHICAGO	458	57291.60	62.23
-----			
ACT TOTAL	318	31651.75	42.68
ACT FIBER	148	14989.85	19.28
TOTAL FOR THE DIVISION	458	46641.60	61.96
	458	10650.00	.27
	458	57291.60	62.23
-----			
FI MPD	211	50512.12	29.58
	21	4991.16	2.94
ACT TOTAL	232	55503.27	32.52
ACT FIBER	232	10650.00	.27
TOTAL FOR DISTRICT G1 AT PORTLAND	232	66153.27	32.79

Figure 5 (con't)

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	N	211	58512.12	29.54
	P	41	4991.16	2.94
ACT TOTAL				
ACT FIRED		232	55503.27	32.52
			10458.08	.27
TOTAL FOR THE DIVISION		232	66152.27	32.79
-----				
MI OGD	N	210	20120.47	30.00
	P	36	2037.61	6.92
ACT TOTAL				
ACT FIRED		254	30166.08	35.00
			10650.00	.27
TOTAL FOR DISTRICT #6 AT CINCINNATI		254	40816.08	35.27
-----				
MI OGD	N	210	20120.47	30.00
	P	36	2037.61	6.92
ACT TOTAL				
ACT FIRED		254	30166.08	35.00
			10650.00	.27
TOTAL FOR THE DIVISION		254	40816.08	35.27
-----				
MI SOD	N	349	77901.29	48.74
	P	261	67113.46	36.31
ACT TOTAL				
ACT FIRED		630	145094.74	88.05
			10650.00	.27
TOTAL FOR DISTRICT #7 AT ATLANTA		630	155744.74	88.32
-----				
MI SOD	N	349	77901.29	48.74
	P	261	67113.46	36.31
ACT TOTAL				
ACT FIRED		630	145094.74	88.05
			10650.00	.27
TOTAL FOR THE DIVISION		630	155744.74	88.32
-----				
LI SPD	N	702	80248.00	30.04
	P	36	12246.93	5.10
ACT TOTAL				
ACT FIRED		318	101554.93	44.95
			10650.00	.27
TOTAL FOR DISTRICT #4 AT SAN FRANCISCO		318	112204.93	45.22

Figure 5 (con't)

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	N						
	P						
ACT TOTAL	282		08266.00		39.06		
ACT PAID	7A		12244.93		5.10		
	318		18154.93		66.95		
			18640.00		.27		
TOTAL FOR THE DIVISION	318		112204.93		45.22		
	N						
	P						
ACT TOTAL	298		102003.67		42.35		
ACT PAID	7A		21789.74		16.99		
	376		123003.01		53.34		
			10650.00		.27		
TOTAL FOR DISTRICT NO AT DALLAS	376		134533.01		53.61		
	N						
	P						
ACT TOTAL	298		102003.67		42.35		
ACT PAID	7A		21789.74		16.99		
	376		123003.01		53.34		
			10650.00		.27		
TOTAL FOR THE DIVISION	376		134533.01		53.61		
COMPLETE TOTAL THIS ASSIGNMENT	3609		935535.28		507.40		
COMPLETE TOTAL THIS ASSIGNMENT	3609		935535.28		507.40		

Figure 5 (con't)

activity performance for that assignment should be compared with the performance of the existing assignment. Differences should be identified as potential gains or losses, to be added when collectively analyzing that assignment on a Corps-wide basis.

Any performance savings are relative to the existing situation for which the total costs and manpower requirements are expected totals, not necessarily actual totals. Table 1 gives the expected performance dollars using FY75 data for each real estate activity and the relative total savings of the two closest office assignments as determined in the *Real Estate Organization Analysis Using the Real Estate Model of Activity Performance (REMAP) Evaluation Procedures*.<sup>2</sup>

As mentioned in Chapter 2, if the selected list of office locations to which activities are to be assigned (NC) has fewer cities than there are existing real estate performance centers (EXDDF), administrative savings may also be possible. The user must calculate these additional savings by determining the effective salaries of administrators and their personal staffs which would be saved due to a reduced number of performance centers.

On the other hand, if the user chooses to analyze an assignment of activities to more performance centers than currently in existence, the cost of administrative salaries incurred at those additional centers would offset any performance savings.

Total savings for an assignment of activity locations to a selected list of cities can thus be determined by summing the expected performance and administrative savings.

As an illustration, suppose the user wants to compare the reassignment of workloads of two performance centers, X1 and X2, which are geographically close. For each activity, a type-1 (T=1) assignment should be analyzed in PROFILE. The PROFILE output would be the maps and totals for the existing situation and the closest assignment. Next, two type-2 (T=2) assignments should be performed for each activity, one with X1 deleted from NC, the other with X2 deleted. Since the centers are close, each would probably be assigned some of the other's workload. Performance totals for all the activities can be compared to determine which reassignment yields the most performance benefits. However, before making a decision, the user should manually calculate any administrative savings which would be realized by each potential reassignment. It is quite possible that administrative

<sup>2</sup>C. P. Altheide, *Real Estate Organization Analysis Using the Real Estate Model of Activity Performance (REMAP) Evaluation Procedures*, Technical Report P-90 (U.S. Army Construction Engineering Research Laboratory, 1978).

Table 1  
Performance Savings for Closest Office Assignment, FY75

Activities	Assignment	Existing District Office	Cost (\$000) Closest District Office	Closest Division Office
Project Planning		1679	1516	1360
Acquisition (Pre)		12020	11755	10146
Acquisition (Post)		1172	1158	853
Inleasing		894	749	696
Outgranting		1139	1104	965
Disposals		503	445	384
Utilization		651	602	588
Compliance		540	367	516
Relocation Assistance		967	946	652
Performance Totals		19566	18643	16161
Performance Savings			923	3405
Administrative Savings			0*	**
Total Savings			923	**

\*No administrative savings, since the number of performance centers is unchanged.

\*\*Needs to be determined by the user, since the number of performance centers has been reduced to ten.

savings may outweigh the performance savings and result in the decision-maker's revising an original impression.

### Summary

In general the user will be evaluating performance using different organizational structures for the Directorate of Real Estate. For each real estate activity--Project Planning, Acquisition (Pre- and Post-Condensation), Inleasing, Outgranting, Disposals, Compliance Inspections, Utilization Inspections, and Relocation Assistance--evaluations of the performance of expected workloads by various organizational elements (Division, District, field, and project offices) called performance centers are conducted. The procedures to analyze various assignments of activity workloads to these performance centers can be summarized as follows:

1. Establish the list of existing real estate performance centers (OC).
2. Establish new lists of proposed performance centers (NC).
3. Determine criteria for assigning activity workloads to those centers (T=1 or 2).
4. Use the PROFILE program in REMAP to determine the expected activity workloads, performance costs, and manpower requirements for the selected assignments (BEGIN).
5. Determine potential administrative savings for the selected assignments (manually).
6. Compare total savings in performance and administration for each activity and for all activities together for all assignments.
7. Choose the reassignment of activity workloads which will result in the organizational structure which improves the economy and efficiency of the DAEN-RE mission.

#### 4 DATA REQUIRED

The previous chapter discussed the REMAP operating procedures assuming that the data were ready for the user to input into REMAP. This chapter explains the input data for each of nine real estate activities using FY75 data. The system values are also derived using FY75 data. The techniques for establishing activity location files with the appropriate formats are also discussed.

Within the PROFILE program, two major computer programs are executed--MAPDATA and MAP. The output of MAPDATA is used as input to MAP. This is done automatically within PROFILE; all the user need do is specify names for the MAPDATA output (NF and DN).

#### System Values

The system values which are currently defaulted in PROFILE are also used as input to the MAP program. For each activity, these values include the cost per unit, the man-years per unit, number of trips, fixed cost per office, fixed man-year per office, and average salary per day. During PROFILE, one or more of these values can be changed for a single run, but they are not permanently changed within PROFILE. For subsequent runs, the default values are used unless the user changes them each time. Since changing the values for each run could become tedious, a way to permanently change these values was developed. This method is particularly helpful in implementing the values for a new fiscal year; a permanent file of each year's values should be created.

The system values for activity A are stored in a permanent file, named AYR, where A and YR are BEGIN parameters for the activity and fiscal year, e.g., system values for project planning for FY75 are currently stored in the permanent file P5. These values are

Cost per unit	= \$657
Man-years per unit	= 0.030
Number of trips per unit	= 10
Fixed cost per office	= \$31,161
Fixed man-years per office	= 1.104
Average salary per day	= \$61.47

These values are stored in the file on one data line. The procedures for permanently changing any of these values are best explained by illustrating how to create the permanent file P6. After logging in, the user types

COMMAND- ATTACH, P5, ID=PUAJ

COMMAND- EDITOR

. . E, P5, S

. . L, 100

. . 100= 657.0 0.030 10 31161. 1.104 61.47

. . 100= 658.0 0.031 11 31162. 1.105 61.48

(All numbers and decimal points must be in the appropriate columns.)

. . Save, THIS

. . CATALOG, THIS, P6, ID=PUAJ

. . B, B

COMMAND-LOGOUT

If permanent changes are desired for P5, the local file THIS could be cataloged as P5; the computer would then assign a higher cycle number to it, which would cause the new P5 to be automatically attached in PROFILE instead of the original.

The six system values for the other real estate activities are stored similarly in separate permanent files. Changes to those values can be made similarly.

The number-of-trips system value was originally determined by discussions with selected personnel at DAEN-RE. The user may choose any number which is appropriate. The average salary per day was calculated by dividing the average annual salary paid out by all District offices to all personnel as of the end of FY75 (as reported on the ENG Forms 1685) by the number of working days per year.

The other four system values were determined by using information reported by the Districts on ENG Form 4564 as well as ENG Form 1685. Two linear regressions were performed for each activity to determine the fixed cost per office, the cost per unit, the fixed man-years per office, and the number of man-years per unit required for a typical performance center to accomplish the activity. A linear regression involves finding the straight line approximation which best fits a collection of data points. The fixed cost and fixed man-years per office derived by linear regression represent the costs and manpower required to open a performance center and provide the capability to perform an activity. The cost per unit and man-years per unit are performance rates for accomplishing a given workload. The system values for each activity for FY75 data are illustrated in Table 2. Figure 6 is the graph of the linear approximation to the FY75 cost data points for Project Planning. Instructions for performing a linear regression are explained in most elementary statistics texts. Many hand-held calculators have this capability already programmed for use.

Table 2

System Values (FY75 Data)

Item	Cost/Unit	Man-Yr/Unit	No. of Trip	Fixed Cost/ Office	Fixed Man- Yr/Office	Av. Wage/Day
Acquisition	1430.110	.058	3.000	136688.190	3.630	61.47
Compliance	10.0	0.0003	0.20	6369.	.26	61.47
Disposal	161.000	.007	1.000	6394.000	.754	61.47
Inleasing	239.0	0.14	1	10650.	.273	61.47
Outgranting	182.0	0.010	0.25	9056.	.05	61.47
Project Planning	657.0	0.030	10.	31161.	1.104	61.47
Relocation Assistance	310.000	.022	2.000	19960.000	1.41	61.47
Utilization	58.000	.022	0.100	3612.000	.240	61.47

PROJECT PLANNING

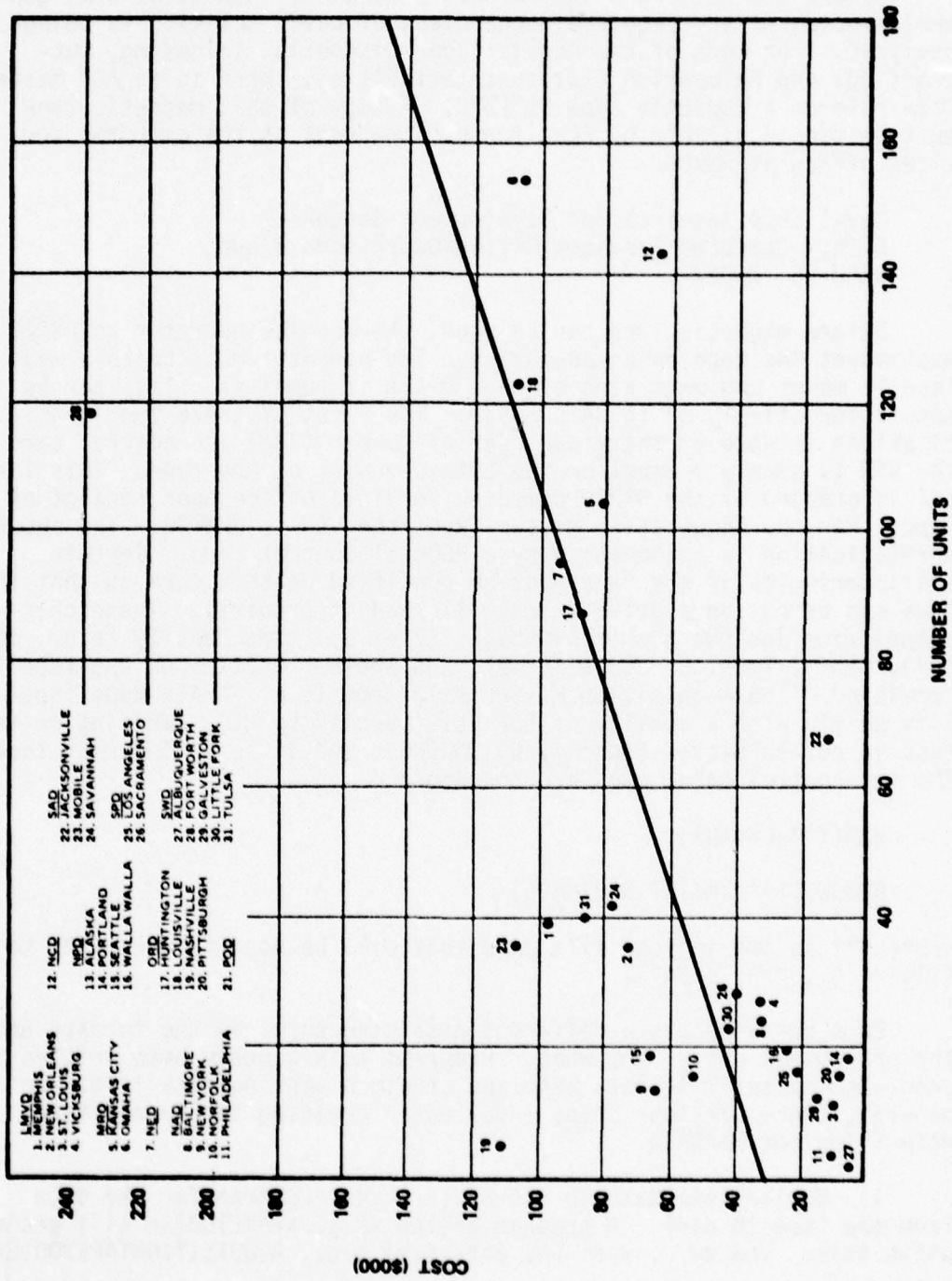


Figure 6. Linear approximation of the FY75 cost data points for Project Planning.

## MAPDATA Data

Before the user runs the MAPDATA program for new data, some general procedures are required, regardless of which activity is being analyzed. For each of the Acquisition, Disposals, Inleasing, Out-granting, and Relocation Assistance activities, there is an ADP Master Data File on a magnetic tape at EDPC. A copy of this magnetic tape must be made available by EDPC for use and sent to the computer services office at NSRDC:

Naval Ship Research and Development Center  
ATTN: Computer Services Office/Operations Group  
WASH DC 20007

Before magnetic tape can be used, the machine operator at NSRDC must mount the tape on a tape drive. The operator must be told what tape to mount and what kind of tape drive it requires. This can be done interactively or in BATCH mode. The first of these two identifications is done by the Visual Serial Number (VSN) job control card. The VSN is simply a label on the outside cover of the tape. This label is created by the NSRDC computer services office upon receipt of tape. For the Acquisition Master Tape, the VSN is CK0103. The second identification is accompanied by a REQUEST control card. Certain characteristics of the tape must be specified on this card so that the tape can be put on a drive which will read it properly. These characteristics include number of tracks (7 or 9), tape density (e.g., 556 bpi), short, long, or SCOPE format, and whether writing on the tape is permitted. The Acquisition Master File tape is a 7-track tape (specify by MT) with a density of 556 bpi (specify by HI). Writing on the tape is not permitted (specify by NORING), and it is an S format tape. The two control cards used are therefore

```
VSN(***=CK0103)
```

```
REQUEST(***,MT,HI,NORING,S)
```

where \*\*\* is the logical file name that will be used to work with this file; e.g., \*\*\* is TAPE1.

Each activity has a different data structure, so the formats and the procedures differ somewhat. Programs have already been written to read each master file data tape and create a working disk file. In general, there are four steps involved in creating the appropriate data files for MAPDATA.

1. Unblock the data in the Master Tape and transfer the data from the tape to disk. A program called xx...xTAPETODISK will accomplish this. The xx...x is the activity; e.g., ACQUISITIONTAPETODISK.

2. Retrieve the relevant data from the disk and write it in a

format acceptable to MAPDATA. A program called CREATExx....xMASTER will do this; e.g., CREATEACQUISITIONMASTER.

3. Sort the retrieved data either by project identification or the name of the activity location (nearest city, base, etc.). A program called SORTxx....xMASTER does this; e.g., SORTACQUISITIONMASTER.

4. Shorten the data file obtained in 3 by a program called CRUNCHA, where A represents the first letter in Inleasing, Ututilization, or Compliance (Outgranting also uses CRUNCHC). This program totals the workload of the same type of unit for all records with the same activity location name; e.g., if there are 15 new leases in Chicago in the Inleasing data file, . . . CRUNCHI will produce one record with a 15 in it, rather than the original 15 separate records. Whenever the master file is very large, this step can save considerable computing time for MAPDATA and processing time for MAP, but it is not a necessity.

Only five ADP activity master tapes at EDPC are used. Pre- and Post-Condernation Acquisition master files are created from the Acquisition master tape, Compliance is created from the Outgranting master tape, and Utilization is created from the Inleasing master tape. A separate data base which does not require these four steps has been developed for the Project Planning activity.

Once the sorted master file (shortened or not) is established, it must be cataloged under the name AMSYR, where A and YR are again the Activity and fiscal YeaR parameters for the BEGIN command; e.g., IMS5 is the sorted Inleasing master file for FY75.

The job control cards for running the programs used in each of these steps for each of the eight activities (except Project Planning) are included in Appendix D.

Eventually EDPC will create the sorted master files (shortened or not) and these steps will not be required of the user.

The second major input file for MAPDATA is a latitude/longitude file for each activity. This is a list of all the activity location names (cities, installations, nearest city to a project, etc.) along with the appropriate latitude and longitude of that location. This file is used to associate a latitude/longitude with each record in the activity master file.

To create this file, a program called ACITY retrieves all the location names which appear in the master tape for activity A. This temporary file may be sorted alphabetically by a program called SORTxx....xLATLONG. For some of the activities, the temporary file is already sorted. Duplication of names can be eliminated by using the program ACDELIM. A printout of this reduced file is then used as a

working file for the user to determine the latitude and longitude of each location by means of the National Atlas, maps, or asking the Districts (estimates to nearest half degree are sufficient). This information must then be keypunched to create the Activity, Latitude and Longitude, Sorted file, cataloged as ALLS (A is the BEGIN parameter). These files have already been created and cataloged for each activity (except Project Planning) through the end of FY75. The user should not have to recreate them, only augment or update them.

MAPDATA merges ALLS and AMSYR and prints out a list of activity names from AMSYR which were not matched with any location on ALLS. Since the latitude/longitude files have already been created, running MAPDATA will produce the unmatched activity locations. Hence, all the user has to do to update the file is to determine locations for those unmatched ones and enter the data onto the data file. Since Utilization and Inleasing records are both retrieved from the Inleasing Master tapes, there is a common latitude/longitude file. The same is true for Compliance and Outgranting. Pre- and Post-Condensation Acquisition activity locations also are in a common file. Project Planning does not need a latitude/longitude file, because the latitudes and longitudes were coded directly into the Project Planning master file. MAPDATA still should be run for Project Planning, but in this case the merger of PLLS and PMSYR is by-passed. Consequently, there would be no unmatched records. Samples of the ALLS and AMS5 files and the data formats for each, as well as the output of MAPDATA, called ANSM, are given in Appendix E.

There are two techniques for entering data onto the ALLS files. Cards for new records can be keypunched and BATCH input to NSRDC as an intermediary file, which could then be merged with the old file, resorted, and recataloged as ALLS with a higher cycle number. Figure 7 is a sample portion of the ILLS file. Figure 8 illustrates a sample set of punched cards to be input. Figure 9 shows the job control cards to merge the new cards with the old file. Figure 10 is the resulting ILLS file with a higher cycle number.

**WARNING:** The ALLS and AMSYR files must be sorted before running MAPDATA. Whenever changes are made to either file which cause them to become unsorted, SORTxx...xLATLONG and SORTxx...xMASTER must be run to resort the files.

The other technique uses an interactive mode known as the EDITOR. This is an expensive technique and should be used only when relatively few changes are to be made.

Two examples using the EDITOR are illustrated in Figures 11 and 12; one for updating ILLS as with cards, the other by creating two additional lines of data at the end of the existing file. Figure 13 illustrates the sorting technique for both examples. Figure 14 is the resulting ILLS.

ABBEVILLE 222958 9208  
ABERDEEN 373508 7925  
ABERDEEN 464528 9829  
ABERDEEN 53465912350  
ABILENE 483228 9943  
ACEY 53  
ADAMS CO 08394010455  
ADA 403446 9641  
ADDISON 174156 8759  
ADRIAN 264154 8402  
AFFTON 293833 9020  
AFTON 403641 9458  
AGANA GUAM GQ  
AGUADILLA ST PRRQ  
AGUADILLA RQ  
AIKEN 453334 8143  
AJO 04322211252  
AKRON 394105 8131  
ALAMANCE COUNTY 373610 7929

Figure 7. Sample portion of ILLS file.





ABBEVILLE	222958 9208
ABERDEEN	373508 7925
ABERDEEN	464528 9829
ABERDEEN	53465912350
ABILENE	483228 9943
ACEY	53
ADAMS CO	08394010455
ADA	403446 9641
ADDISON	174156 8759
ADRIAN	264154 8402
AFFTON	293833 9020
AFTON	403641 9458
AGANA GUAM	GQ
AGUADILLA ST PRRQ	
AGUADILLA	RQ
AIKEN	453334 8143
AJO	04322211252
AKRON	394105 8131
ALAMANCE COUNTY	373610 7929
ABBEVILLE	013134 8515
AGAWAN	254205 7236

Figure 10. Resulting ILLS file.

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```
COMMAND-EDITOR
..creat
  100=abbeville      013134 8515
  110=agawan        254205 7236
  120==
  ..1,a

      100=ABBEVILLE  013134 8515
      110=AGAWAN     254205 7236
  ..s,t3,n
  ..b
  COMMAND- request,temp,*pf.
  COMMAND- attach,t1,ills,id=pua]
  PF CYCLE NO. = 002
  COMMAND- copycr,t1,temp2.
  COMMAND- copycr,t3,temp2.
  COMMAND- rewind,temp2.
  COMMAND- combind,temp2,temp.
  NO SUCH PROGRAM CALL NAME - COMBIND
  COMMAND- combine,temp2,temp.
  WRONG NUMBER OF PARAMETERS
  COMMAND- combine,temp2,temp,2.
  COMMAND- catalog,temp,unso]newlls,id=pua]
  INITIAL CATALOG
  RP = 030 DAYS
  CT ID=      PUAJ PFN= UNSORNEWLLS
  CT CY= 001 00000001 PRUS $0000.00 /DAY
  COMMAND- page,temp
  Ready..
  1

  ABBEVILLE      222958 9208
  ABERDEEN      373508 7925
  ABERDEEN      464528 9829
  ABERDEEN      53465912350
  ABILENE       483228 9943
  ACEY          53
  ADAMS CO      08394010455
  ADA           403446 9641
  ADDISON      174156 8759
  ADRIAN       264154 8402
  AFFTON       293833 9020
  Line        1
  +

  AFTON         403641 9458
  AGANA GUAM   GQ
  AGUADILLA ST PRRQ
  AGUADILLA    RQ
  AIKEN        453334 8143
  AJO          04322211252
  AKRON        394105 8131
  ALAMANCE COUNTY 373610 7929
  ABBEVILLE    013134 8515
  AGAWAN       254205 7236
  (eor )
  Line        12
  ▽
```

Figure 11. Example of using EDITOR.

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LOGIN            UPDATED 05/27/77    TODAY IS 06/14/77  
6600 INTERACTIVE ACCESS, PRINT SYSBULL(BATCH)

COMMAND- attach,w1,ills,id=pauj  
PF CYCLE NO. = 002  
COMMAND- editor  
..e,w1,s  
..l,all

100=ABBEVILLE	222958 9208
110=ABERDEEN	373508 7925
120=ABERDEEN	464528 9829
130=ABERDEEN	53465912350
140=ABILENE	483228 9943
150=ACEY	53
160=ADAMS CO	08394010455
170=ADA	403446 9641
180=ADDISON	174156 8759
190=ADRIAN	264154 8402
200=AFFTON	293833 9020
210=AFTON	403641 9458
220=AGANA GUAM	GQ
230=AGUADILLA ST PRRQ	
240=AGUADILLA	RQ
250=AIKEN	453334 8143
260=AJO	04322211252
270=AKRON	394105 8131
280=ALAMANCE COUNTY	373610 7929
..a,290	
290=abbeville	013134 8515
300=agawan	254205 7236
310==	

..s,w2,n  
..catalog,w2,unsornewlls,id=pauj  
INITIAL CATALOG  
RP = 030 DAYS  
CT ID=        PUAJ PFN=UNSORNEWLLS  
CT CY= 001 00000001 PRUS \$0000.00 /DAY

Figure 12. Second example of using EDITOR.

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```
100=PWSCM,CM100000,T75,P4.  
110=CHARGE,PUAJ.1189043801,RS.I.  
120=FTN,OPT=2.  
130=ATTACH,TAPE1,UNSORNEWLLS,ID=PUAJ.  
140=REQUEST(TAPE5,*PF)  
150=LIBRARY(COBOL)  
160=RFL,100000.  
170=LGO.  
180=REDUCE.  
190=CATALOG,TAPE5,ILLS,ID=PUAJ.  
200=      PROGRAM SORT(TAPE1,TAPE5,OUTPUT,TAPE7=OUTPUT)  
210=      CALL SMSORT(26)  
220=      CALL SMFILE("SORT","CODED",1,"REWIND")  
240=      CALL SMFILE("OUTPUT","CODED",5,"REWIND")  
250=      CALL SMKEY(1,1,17,0,"DISPLAY","DISPLAY","A")  
260=      CALL SMEND  
270=5     WRITE(7,100)  
280=100   FORMAT(* NORMAL COMPLETION*)  
290=      STOP  
300=      END
```

Figure 13. Example of sorting techniques using EDITOR.

COMMAND- page,w3

Ready..

1

ABBEVILLE	013134	8515
ABBEVILLE	222958	9208
ABERDEEN	373508	7925
ABERDEEN	464528	9829
ABERDEEN	534659	12350
ABILENE	483228	9943
ACEY	53	
ADAMS CO	083940	10455
ADA	403446	9641
ADDISON	174156	8759
ADRIAN	264154	8402

Line 1

+

AFFTON	293833	9020
AFTON	403641	9458
AGANA GUAM	GQ	
AGAWAN	254205	7236
AGUADILLA ST PRRQ		
AGUADILLA	RQ	
AIKEN	453334	8143
AJO	043222	11252
AKRON	394105	8131
ALAMANCE COUNTY	373610	7929

{eor }

Line 12

Figure 14. Resulting ILLS file after sorting.

If the user desires to have a printed copy of any of the data files or programs, they can be batch printed interactively or sent to be printed elsewhere.

To batch lengthy printouts to any other terminal, as mentioned in Chapter 3, p 17, the following commands are sent after LOGIN:

COMMAND- ATTACH,FILE,ID=PUAJ

COMMAND- COPYSBF,FILE,DUMMY

COMMAND- REWIND,DUMMY

COMMAND- BATCH,DUMMY,PRINT,\_\_,NAME.

(NAME is a four-character identification code and \_\_ is a two-character USER-ID code for a receiving terminal)

COMMAND- LOGOUT

To batch print at the user's terminal for shorter printouts, after the ATTACH command, the user types

COMMAND- CONNECT,OUTPUT

COMMAND- COPYSBF,FILE,OUTPUT

The terminal will automatically print out FILE; the user can then logout. Figure 15 is an example of an interactive printout of the PMS5 file. Notice that only 72 characters were printed in one line and the rest of the latitude/longitude numbers were printed on the next line. The entire PMS5 file would have been printed if the ESCAPE key and "%A" had not been typed in the middle of the printout. The computer reprinted the entire line during which it was interrupted, and then indicated USER ABORT and asked for the next COMMAND.

#### Additional Instructions

While working with the CDC 6700 computer at NSRDC, the user may have many programs and data files available in permanent disk storage. These files have been cataloged as permanent files. Usually there is a retention period of 30 days assigned to a newly cataloged file, which means that if the file is not attached for 30 consecutive days, it will be taken off the disk and archived on magnetic tape at NSRDC. The file is not lost, but it cannot be attached automatically with a COMMAND statement. The user would have to call NSRDC User Services 202-227-1907,\* explain the necessity of the file, and request that it

\*This phone number is subject to change.

NSRDC 6600 INTERCOM U4.5  
DATE 06/14/77  
TIME 17.11.50.  
LOGIN, PUAJDAVIDS, 1189043801

06/14/77 LOGGED IN AT 17.12.11.  
WITH USER-ID 0U  
EQUIP/PORT 02/027

LOGIN UPDATED 05/27/77 TODAY IS 06/14/77  
6600 INTERACTIVE ACCESS, PRINT SYSBULI (BATCH)

COMMAND- ATTACH, PMS5, ID=PUAJ  
PFN IS PMS5  
PF CYCLE NO. = 001  
COMMAND- CONNECT, OUTPUT  
COMMAND- COPYSBF, PMS5, OUTPUT

M5237220	R	175CLAYTON	CLAYTON LAKE	OK3
435 9521				
M5237220	S	175CLAYTON	CLAYTON LAKE	OK3
435 9521				
M5237220	O	375CLAYTON	CLAYTON LAKE	OK3
435 9521				
M5237	R	175COLGATE	PARKER RESERVOIR	OK
M5237	R	175DURANT	ALBANY LAKE	OK3
360 9623				
M5237	R	175DURANT	CENTRAL OKLAHOMA	OK3
360 9623				
M5237424	R	175PONCA CITY	K%A	OK3
M5237424	R	175PONCA CITY	KAW LAKE	OK3

USER ABORT  
COMMAND- LOGOUT

Figure 15. Example interactive printout of the PMS5 file.

be taken out of the archives and placed back on the disk. The user will have to identify the file by its permanent file name and the date of its last attachment. An extra charge will be assessed for this service.

The user can obtain a list of all the permanent files currently on the disk by running an AUDIT of the files. After LOGIN, the user types

```
COMMAND- CONNECT,OUTPUT
```

```
COMMAND- AUDIT,ID=PUAJ,AC=1189043801,AI=I
```

The complete audit file will then be printed on the user's terminal. If it is preferable to have it printed elsewhere, the user would not connect OUTPUT, but would run the AUDIT command and batch print the output elsewhere by typing

```
COMMAND- BATCH,OUTPUT,PRINT,__,NAME.
```

From the printout, the user may identify which files have not been attached for some time and proceed to attach them. However, since the quantity of files is large, a short program has been written to accomplish the attaching of all the files. It is called ATTACHPF and can be used as follows after LOGIN,

```
COMMAND- AUDIT,ID=PUAJ,AC=1189043801,AI=I
```

```
COMMAND- REWIND,OUTPUT
```

```
COMMAND- ATTACH,AGO,ATTACHPF,ID=PUAJ
```

```
COMMAND- AGO.
```

```
COMMAND- REWIND, TAPE5
```

```
COMMAND- BATCH, TAPE5, INPUT, HERE
```

The ATTACHPF program will attach everything in disk storage under the user ID=PUAJ, including the NC, OF, NF, and DN files which were cataloged during REMAP analyses. Since storage charges can mount up, the user should judiciously remove from storage files which are no longer needed. Files can be removed by means of the PURGE command, but care must be exercised to insure that THE MAIN PROGRAMS USED IN REMAP ARE NEVER PURGED. A list of these necessary program names can be found in Appendix F. Suppose the user no longer needed a file named OLDFILE and wanted to PURGE this file; after LOGIN, the user would type

```
COMMAND- ATTACH,OLDFILE,ID=PUAJ
```

COMMAND- PURGE,OLDFILE,ID=PUAJ

When OLDFILE was attached, it was a permanent file. It would show up in the local files as \*OLDFILE; after purging, the asterisk is removed and OLDFILE becomes a local file. Thus, if the user accidentally purges the wrong file, it still exists as a local file and can be recataloged as permanent by typing

COMMAND- REQUEST,TEMP,\*PF

COMMAND- COPYCR,OLDFILE,TEMP

COMMAND- REWIND,TEMP

COMMAND- CATALOG,TEMP,OLDFILE,ID=PUAJ

However, if the user logs out or is disconnected while OLDFILE is a local file, it will be permanently erased and lost.

## 5 CONCLUSIONS

This report has described operating procedures and input preparation for a model developed to evaluate alternate assignments of real estate activity locations to existing and/or new locations of Division, District, field, and project offices. The model, entitled Real Estate Model of Activity Performance (REMAP), can provide users with expected activity workloads, performance costs, and manpower requirements for selected assignments of nine real estate activities. The REMAP evaluation procedures can be used by DAEN-RE in its analysis and management of field organization options.

APPENDIX A:

DIVISION CODES

AØ	Lower Mississippi Valley Division (LMVD)
CØ	Missouri River Division (MRD)
DØ	New England Division (NED)
EØ	North Atlantic Division (NAD)
FØ	North Central Division (NCD)
GØ	North Pacific Division (NPD)
HØ	Ohio River Division (ORD)
KØ	South Atlantic Division (SAD)
LØ	South Pacific Division (SPD)
MØ	Southwestern Division (SWD)

APPENDIX B:

BEGIN PARAMETERS

Name	Symbol	Values	Definition	Restrictions
Activity	A	A - Acquisition (Pre) B - Acquisition (Post) C - Compliance D - Disposals I - Inleasing O - Outgranting P - Project Planning R - Relocation Assistance U - Utilization		No default value. One of these values must be specified.
Type	T	1 - Existing and Closest Assignments 2 - Partial Reassignment 3 - Assignment based on State Boundaries		One of the values must be specified. T = 3 can be used only with Activities A, B, I and P.
Year	YR	0-9	Last digit in the fiscal year	A value must be specified. Data exist for FY75, 76.
List	L	C - Create a list of centers. N - No change to an existing list. AD - Add to an existing list.		Default value is N. If L=C, then user must define a unique name for NC.
Run	R	Y-Yes N-No	Will MAPDATA be run?	Default value is N. If L≠N, then R=Y. If R=Y, then user must define unique names for NF and DN.

Name	Symbol	Values	Definition	Restrictions
Write	W	Y-Yes N-No	Will OUTPUT be written directly on the user's terminal?	Default value is N.
Old Centers New Centers Name of File	OC NC NF	These are permanent file names, and are alphanumeric words of seven characters.		First character is alphabetic. Default name for OC is EXDDF. Default value for NC is EXDD2, which is a duplicate copy of EXDDF. NF and DN must be specified.
Division Names	DN			

APPENDIX C:

COMPLETE INTERACTIVE RESPONSES TO  
EXAMPLE PROBLEMS

Example 1

NSRDC 6600 INTERCOM V4.5  
DATE 06/27/77  
TIME 16.28.34.  
loginpuaj,1189043801  
FORMAT ERROR  
READY..login,puajdavids,1189043801

06/27/77 LOGGED IN AT 16.29.17.  
WITH USER-ID 0U  
EQUIP/PORT 02/024

LOGIN UPDATED 05/27/77 TODAY IS 06/27/77  
6600 INTERACTIVE ACCESS, PRINT SYSBULL(BATCH)

COMMAND- attach,f,profile,id=puaj

PF CYCLE NO. = 002

COMMAND- et1,500

COMMAND-begin(ex,f,a=i,t=1,yr=6,r=y,nf=inlex,dn=inlexdn)

PF CYCLE NO. = 001

PF CYCLE NO. = 002

PF CYCLE NO. = 003

PF CYCLE NO. = 004

PF CYCLE NO. = 001

PF CYCLE NO. = 002

WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,  
NO. OF TRIP,FIXED COST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?  
IF YES TYPE Y;OTHERWISE TYPE N:

CM LWA+1 = 21251B, LOADER USED 33300Bn

WANT TO DELETE ANY DISTRICT? TYPE Y OR N:n

THANK YOU.

STOP

.076 CP SECONDS EXECUTION TIME

CM LWA+1 = 26246B, LOADER USED 40300B

STOP

131.953 CP SECONDS EXECUTION TIME

NEWCYCLE CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN=INDEX

CT CY= 002 00000281 PRUS \$0000.70 /DAY

NEWCYCLE CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN=INLEXDN

CT CY= 002 00000004 PRUS \$0000.01 /DAY  
PF CYCLE NO. = 002  
CM LWA+1 = 37151B, LOADER USED 51200B  
END IMAPI  
32.185 CP SECONDS EXECUTION TIME  
COMMAND- rewind,output  
COMMAND- batch,output,print,yx,chun  
FILE ICHUN28 SENT, DC=PR

THIS IS A TYPE 1 MAPDATA PROGRAM FOR INLEASING ACTIVITY.

THE FOLLOWING OFFICES ARE USED FOR ASSIGNMENT:

A0	LMVD
A1	MEMPHIS
A2	NEW ORLEANS
A3	ST. LOUIS
A4	VICKSBURG
C0	MRD
C1	KANSAS CITY
D0	NED
D1	BOSTON
E0	NAD
E1	BALTIMORE
E3	NEW YORK
E4	NORFOLK
E5	PHILADELPH
F0	NCD
F2	CHICAGO
G0	NPD
G2	PORTLAND
G3	SEATTLE
G4	WALLA WALL
H0	ORD
H1	HUNTINGTON
H2	LOUISVILLE
H3	NASHVILLE
H4	PITTSBURGH
K0	SAD
K3	JACKSONVIL
K5	MOBILE
K6	SAVANNAH
L0	SPD
L1	LOS ANGELE
L2	SACRAMENTO
M0	SWO
M1	ALBUQUERQU
M2	FT. WORTH
M3	GALVESTON
M4	LITTLE ROC
M5	TULSA

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THE FOLLOWING MASTER FILE RECORDS HAVE NOT BEEN ASSIGNED DUE TO ONE OF THE FOLLOWING REASONS  
1. NO MATCH WAS FOUND FOR THIS RECORD IN THE LAT/LONG FILE  
2. THE DIV/DIST CODE FOR THIS RECORD WAS NOT FOUND IN THE DIVDISTOFFICEDATA FILE

AGANA GUAM	00	ZZ R
ALAMOGORDO	4R	M1 R
ALDENVILLE	42	E1 N
ALEXANDRIA	4R	M2 R
ANGLETON TX	4R	M3 N
ANNE ARUNDEL	24	E1 N
ANSAS CITY	20	C1 N
ARNOLD	29	C1 N
ASHFORD	09	E3 N
ATCHISON	29	C1 N
BALROA	PD	Z7 R
BARRINGTON	33	E3 N
BERLIN	50	E3 N
BOLIVAR	54	E1 N
BRANDON	47	K5 N
CANFIELD	39	E1 N
CANOGA PARK	06	L1 N
CARLE PLACE	36	E3 N
CHAPLIN	09	E3 N
CHAS HEIGHTS	45	K6 N
CLARKSVILLE	1R	C2 N
CODY	21	M2 N
COLCHESTER	50	E3 N
COLONIE	36	E3 N
CORINTHA CORN	2R	M3 R
DODGE CITY	29	C1 N
DORCHESTER	25	E3 N
DOUGLASSVILLE	42	E1 N
EAGAN	27	C2 N

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EAGAN	27	CP R
EASTMAN	25	E3 N
EDWARDSVILLE	42	E1 N
EGAN	27	C2 N
ENON	39	E1 N
ETROTIT	26	C2 N
FAIRBANKS ALS	02	G1 N
FALLINGWATERS	54	E1 N
FALLON	06	L2 N
FORESTPORT	36	E3 N
FT LAUDERHILL	12	K5 N
GAMBROA	00	K5 R
GLENDALE	54	E1 N
GRAND BAHAMA ISNF		K3 R
GR COVE SPRINGS 12		K5 N
NARWOOD MINES	42	E1 N
HENDLE	29	C1 N
HONOLULU/HAW	15	27 R
HONOLULU	15	27 N
HONOLULU	15	27 R
HOPKINSVILLE	42	E1 N
ILADELPHIA PENNA2		E5 N
JACK	01	K5 R
JAMATCA	36	E3 N
JONESBORO	47	K5 N
JUNEAU ALS	02	G1 N
KAWAII OA/HONO	15	27 N
KEARSARGE	26	C2 N
KNOXVILLE	27	K5 R
KODIAK ALS	02	G1 N
LAGRANGE	13	K6 R
LAKEHEAD	06	L2 N
LAKE KATRINE	36	E3 N

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LA VISTA	31	C2 N
LEMONT FURNACE	42	E1 N
LOUISVILLE	47	K5 R
LOWELL	37	K6 N
MABSCOTT	54	E1 N
MADISON TOWNSHIP	34	E3 N
MAPLETON	38	C2 N
MARSHFIELD	25	E3 N
MARYVILLE	37	K5 R
MASON CITY	18	C2 N
MECHANICAL	36	E3 N
WESTFAD	12	K5 R
MIRALESTE	06	L1 N
MOLINE ACRES	29	C1 N
MONROE	42	E1 N
NASHVILLE	12	K5 R
NASHVILLE	48	K5 N
NEW HOPE	51	E1 N
N CAR	37	K6 N
OFALLON	29	C1 N
OKLAHOMA CITY	32	M1 R
ONESBORO	05	M4 N
ON	01	K5 R
PANAMA CITY	PN	Z2 N
PARLIN	34	E3 N
PENACOOK	33	E3 N
PISCATAWAY	34	E3 N
PLAINVILLE	09	E3 N
PORT RICHEY	12	K5 N
POWELL	47	K5 R
REISTERSTOWN	24	E1 N
RIDGEWAY	42	E1 N
RODMAN	PO	Z2 N

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HOWLAND HEIGHTS06	L1 N
SALT LAKE CITY 49	L2 N
SANDY 49	L2 N
SERGEANT BLUFF 19	C2 R
SCOTLAND 09	E3 N
SCOTTSVILLE 36	E3 N
SEWARD ALASKA 02	G1 N
SEWARD A1 S 02	G1 N
SHARRONA 17	C2 N
SHORT CREEK 39	E1 R
SIERRA 32	M1 R
SOMERS POINT 34	E3 N
SOMERS PT 34	E3 N
SPANISH FORK 49	L2 N
STAFFORD 36	E3 N
STOW 39	E1 N
SVOYERSVILLE 42	E1 N
TARZANA 06	L1 N
TEMPLE TERRACE 12	K5 N
TIERPA DEL MAR 41	G3 N
TIGRETT 47	K5 N
TOPEKA 29	C1 N
TRAVERSE 26	C2 N
TUJUNGA 06	L1 N
ULSA OKLA 40	M5 N
WAHIAWA/HONO 15	Z2 N
WAHIAWA/HONO 15	Z2 R
WALWORTH 36	E3 R
WATERFORD 09	E3 N
WATSON 26	C2 R
WESLACO TX 48	M3 N
WESTHAMPTON BEACH36	E3 N
WESTPORT 25	E3 N

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WEST GORHAM	23	E3 N
WEST WILLINGTON09		E3 N
NDE	04	L1 N
SAN JOSE	06	L2 N

END OF LAT/LONG FILE  
RECORDS READ 3607  
RECORDS WITH LAT/LONG OUT OF RANGE 382  
RECORDS WHICH WERE NOT MATCHED 1788

END OF MASTER FILE ENCOUNTERED  
MASTER FILE RECORDS READ. 1763  
MASTER FILE RECORDS WHICH WERE NOT MATCHED 132

NUMBER OF RECORDS WRITTEN IS 1631

THIS IS A TYPE 1 MAP PROGRAM FOR INLEASING ACTIVITY

THE FOLLOWING VALUES ARE USED IN THE PARAMETERS:

COST/UNIT=	239.000	
MAN YR/UNIT=	.140	
NO. OF TRIP=	1.000	
FIXED COST/OFFICE=	10650.000	
FIXED MAN YR/OFFICE=	.273	
AVG WAGE/DAY=	61.470	

3262 RECORDS READ FROM THE MASTER FILE

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MAP OF EXISTING DIVISION ASSIGNMENTS

Map showing division assignments represented by letters (G, L, C, E, F, M, A, K, H) and numbers (6, 66, 666, 6666) arranged in a grid pattern. The letters and numbers are scattered across the page, with some forming distinct shapes or clusters. The map is enclosed in a dotted border.



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MAP OF DIVISION ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE

Map showing division assignments using the closest open district office. The map is represented by a grid of letters (G, L, C, F, M, H, A, D, E, K) and numbers (6, 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, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) arranged in a grid pattern. The letters and numbers are scattered across the map, representing different division assignments. The map is enclosed in a dotted border.



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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT OF THE EXISTING DISTRICT OFFICE

DIVISION	INFLASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMVD				
	R	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A2 AT NEW ORLEAN		4	11606.00	.83
	N	4	956.00	.56
	R	1	239.00	.14
ACT TOTAL		5	1195.00	.70
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	11845.00	.97
	N	13	3107.00	1.82
	R	2	478.00	.28
ACT TOTAL		15	3585.00	2.10
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A4 AT VICKSBURG		15	14235.00	2.37
-----				
	N	21	5019.00	2.94
	R	4	956.00	.56
ACT TOTAL		25	5975.00	3.50
ACT FIXED			42600.00	1.09
TOTAL FOR THE DIVISION		25	48575.00	4.59
-----				
C: MVD				
	N	85	26315.00	11.90
	R	35	8365.00	4.90
ACT TOTAL		120	28680.00	16.80
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C1 AT KANSAS CIT		120	39330.00	17.07

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	N	564	134796.00	78.06
	R	271	64769.00	37.94
ACT TOTAL		835	199565.00	116.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		835	210215.00	117.17

	N	649	155111.00	90.86
	R	306	73136.00	42.84
ACT TOTAL		955	228247.00	133.70
ACT FIXED			21300.00	.55
TOTAL FOR THE DIVISION		955	249547.00	134.25

D: NED				
ACT TOTAL		0	0.00	0.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT D1 AT BOSTON		0	10650.00	.27

		0	0.00	0.00
ACT TOTAL		0	0.00	0.00
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		0	10650.00	.27

E1: N40				
	N	351	83880.00	49.14
	R	17	4043.00	2.38
ACT TOTAL		368	87923.00	51.52
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E1 AT BALTIMORE		368	98573.00	51.79

	N	440	107311.00	62.86
	R	20	4780.00	2.80
ACT TOTAL		460	112091.00	65.66
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E3 AT NEW YORK		460	122741.00	65.93

	N	45	10755.00	6.30
ACT TOTAL		45	10755.00	6.30
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT E4 AT NORFOLK		45	21405.00	6.57

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	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED		1	10650.00	.27
TOTAL FOR DISTRICT E5 AT PHILADELPH		1	10889.00	.41

	N	846	702194.00	118.44
	R	37	8463.00	9.18
ACT TOTAL		883	211037.00	123.62
ACT FIXED		883	42600.00	1.09
TOTAL FOR THE DIVISION		883	253637.00	124.71

F1 NCD				
	N	5	1195.00	.70
	R	8	1912.00	1.12
ACT TOTAL		13	3107.00	1.82
ACT FIXED		13	10650.00	.27
TOTAL FOR DISTRICT F2 AT CHICAGO		13	13757.00	2.09

	N	5	1195.00	.70
	R	8	1912.00	1.12
ACT TOTAL		13	3107.00	1.82
ACT FIXED		13	10650.00	.27
TOTAL FOR THE DIVISION		13	13757.00	2.09

G1 NPD				
	N	2	478.00	.28
ACT TOTAL		2	478.00	.28
ACT FIXED		2	10650.00	.27
TOTAL FOR DISTRICT G2 AT PORTLAND		2	11128.00	.55

	N	191	45649.00	26.74
	R	19	4541.00	2.66
ACT TOTAL		210	50190.00	29.40
ACT FIXED		210	10650.00	.27
TOTAL FOR DISTRICT G3 AT SEATTLE		210	60840.00	29.67

	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED		1	10650.00	.27
TOTAL FOR DISTRICT G4 AT WALLA WALL		1	10889.00	.41

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	N	194	46366.00	27.16
	N	19	4541.00	2.66
ACT TOTAL		213	50907.00	29.82
ACT FIXED			31950.00	.82
TOTAL FOR THE DIVISION		213	82857.00	30.64
-----				
M1 QND				
ACT TOTAL		0	0.00	0.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M1 AT HUNTINGTON		0	10650.00	.27
-----				
	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIXED			10450.00	.27
TOTAL FOR DISTRICT M2 AT LOUISVILLE		4	11606.00	.83
-----				
	N	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M3 AT NASHVILLE		1	10889.00	.41
-----				
	N	2	478.00	.28
ACT TOTAL		2	478.00	.28
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M4 AT PITTSBURGH		2	11128.00	.55
-----				
	N	7	1673.00	.98
ACT TOTAL		7	1673.00	.98
ACT FIXED			42600.00	1.09
TOTAL FOR THE DIVISION		7	44273.00	2.07
-----				
M1 Q40				
	R	6	1434.00	.84
ACT TOTAL		6	1434.00	.84
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M1 AT JACKSONVILLE		6	12084.00	1.11

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	N	274	65446.00	38.36
	H	291	64549.00	40.74
ACT TOTAL		565	135095.00	79.10
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT K5 AT MOBILE		565	145645.00	79.37
-----				
	N	139	33221.00	19.46
	R	17	4063.00	2.38
ACT TOTAL		156	17284.00	21.84
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT K6 AT SAVANNAH		156	47934.00	22.11
-----				
	N	413	98707.00	57.82
	H	314	75046.00	43.96
ACT TOTAL		727	173753.00	101.78
ACT FIXED			31950.00	.82
TOTAL FOR THE DIVISION		727	205703.00	102.60
-----				
L1 CJD				
	N	271	64769.00	37.94
	R	26	6214.00	3.64
ACT TOTAL		297	70983.00	41.58
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT L1 AT LOS ANGELES		297	81633.00	41.85
-----				
	N	135	32265.00	18.90
	P	10	2390.00	1.40
ACT TOTAL		145	14655.00	20.30
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT L2 AT SACRAMENTO		145	45305.00	20.57
-----				
	N	404	97034.00	56.84
	H	35	8604.00	5.04
ACT TOTAL		442	105638.00	61.88
ACT FIXED			21300.00	.55
TOTAL FOR THE DIVISION		442	126938.00	62.43
-----				
M1 CJD				
	N	18	4302.00	2.52
	R	12	2868.00	1.68
ACT TOTAL		30	7170.00	4.20
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT M1 AT ALBUQUERQUE		30	17820.00	4.47

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N  
 P  
 ACT TOTAL  
 ACT FIXED  
 TOTAL FOR DISTRICT #2 AT FT. WORTH

114  
 73  
 191  
 191

24202.00  
 17447.00  
 45649.00  
 10650.00  
 56299.00

16.52  
 18.22  
 26.74  
 .27  
 27.01

N  
 ACT TOTAL  
 ACT FIXED  
 TOTAL FOR DISTRICT #3 AT GALVESTON

52  
 52  
 52

12426.00  
 12426.00  
 10650.00  
 23076.00

7.28  
 7.28  
 .27  
 7.55

N  
 P  
 ACT TOTAL  
 ACT FIXED  
 TOTAL FOR DISTRICT #4 AT LITTLE ROCK

16  
 13  
 29  
 29

3874.00  
 3107.00  
 6931.00  
 10650.00  
 17581.00

2.24  
 1.82  
 4.04  
 .27  
 4.33

N  
 P  
 ACT TOTAL  
 ACT FIXED  
 TOTAL FOR DISTRICT #5 AT TULSA

40  
 2  
 42  
 42

9540.00  
 478.00  
 10038.00  
 10650.00  
 20688.00

5.60  
 .29  
 5.88  
 .27  
 6.15

N  
 P  
 ACT TOTAL  
 ACT FIXED  
 TOTAL FOR THE DIVISION

244  
 100  
 344  
 344

58316.00  
 23900.00  
 82216.00  
 53250.00  
 135466.00

34.16  
 14.00  
 48.16  
 1.37  
 49.52

COMPLETE TOTAL THIS ASSIGNMENT

3409

1171401.00

513.18

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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE

DIVISION	INLEASING TYPE	WORKLOAD (UNITS)	COST(S)	EFF. MAN/YR
AS LWO	N	14	1278.86	1.92
	R	8	907.75	1.16
ACT TOTAL		22	2186.61	3.02
ACT FIRED			10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		22	12836.61	3.29
ACT TOTAL	N	34	1808.18	6.65
ACT FIRED	R	10	1130.86	1.36
TOTAL FOR DISTRICT A2 AT NEW ORLEANS		44	2939.04	6.03
ACT TOTAL		44	10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		64	13580.24	6.30
ACT TOTAL	N	41	5274.10	5.66
ACT FIRED	P	23	2747.17	3.17
TOTAL FOR DISTRICT A4 AT VICKSBURG		64	8021.27	6.83
ACT TOTAL		64	10650.00	.27
TOTAL FOR THE DIVISION		175	18671.27	9.11
ACT TOTAL	N	36	6851.40	5.01
ACT FIRED	R	9	1777.66	1.25
TOTAL FOR DISTRICT A5 AT KANSAS CITY		45	8629.86	6.26
ACT TOTAL		45	10650.00	.27
TOTAL FOR THE DIVISION		175	19279.06	6.53
ACT TOTAL	N	125	15212.54	17.24
ACT FIRED	R	50	6542.14	6.40
TOTAL FOR DISTRICT A6 AT MEMPHIS		175	21774.68	24.14
ACT TOTAL		175	42600.00	1.09
TOTAL FOR THE DIVISION		175	64374.68	25.23
ACT TOTAL	N	52	12446.89	7.28
ACT FIRED	R	24	5732.83	3.36
TOTAL FOR DISTRICT A7 AT KANSAS CITY		76	18130.92	18.64
ACT TOTAL		76	10650.00	.27
TOTAL FOR THE DIVISION		76	28789.92	18.91

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K								
ACT TOTAL	186	44159.15	26.03					
ACT FIRED	42	14431.29	11.45					
TOTAL FOR DISTRICT C2 AT OMAHA	268	6752.44	37.51					
		10650.00	.27					
		74302.44	37.79					
-----								
N								
ACT TOTAL	238	56566.04	33.31					
ACT FIRED	106	75275.32	14.04					
TOTAL FOR THE DISTRICT	344	91791.36	48.15					
		21300.00	.55					
		10301.36	48.70					
-----								
M								
ACT TOTAL	209	36910.59	24.02					
ACT FIRED	14	2602.74	1.95					
TOTAL FOR DISTRICT D1 AT BOSTON	223	39513.33	30.96					
		10650.00	.27					
		50163.33	31.23					
-----								
N								
ACT TOTAL	209	36910.59	24.02					
ACT FIRED	14	2602.74	1.95					
TOTAL FOR THE DISTRICT	223	39513.33	30.96					
		10650.00	.27					
		50163.33	31.23					
-----								
E:								
ACT TOTAL	152	36212.62	21.28					
ACT FIRED	5	1195.00	.70					
TOTAL FOR DISTRICT E1 AT BALTIMORE	157	37407.62	21.98					
		10650.00	.27					
		48057.62	22.25					
-----								
N								
ACT TOTAL	103	43495.30	25.62					
ACT FIRED	5	1162.31	.70					
TOTAL FOR DISTRICT E3 AT NEW YORK	108	44657.61	26.32					
		10650.00	.27					
		55307.61	26.59					
-----								
N								
ACT TOTAL	60	11147.95	8.32					
ACT FIRED	3	541.99	.42					

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ACT TOTAL	63	11726.94	68.00
ACT FIRED		10650.00	2.24
TOTAL FOR DISTRICT F1 AT WASHINGTON	63	22376.94	70.23
ACT TOTAL	92	14030.28	1.09
ACT FIRED	3	643.05	71.33
TOTAL FOR DISTRICT F5 AT PHILADELPHIA	95	14673.33	
ACT TOTAL	95	24369.33	
ACT TOTAL	447	104932.15	68.00
ACT FIRED	16	354.35	2.24
TOTAL FOR THE DIVISION	503	112516.50	70.23
ACT TOTAL	503	42800.00	1.09
ACT FIRED		155114.50	71.33
TOTAL FOR DISTRICT F2 AT CHICAGO	503		
F2 ACD			
ACT TOTAL	242	25115.52	38.73
ACT FIRED	117	10535.29	16.08
TOTAL FOR DISTRICT F2 AT CHICAGO	399	15650.41	54.41
ACT TOTAL	399	10650.00	.27
ACT FIRED		44300.41	55.08
TOTAL FOR THE DIVISION	399		
F3 NPD			
ACT TOTAL	242	25115.52	38.73
ACT FIRED	117	10535.29	16.08
TOTAL FOR DISTRICT G2 AT PORTLAND	399	15650.41	54.41
ACT TOTAL	399	10650.00	.27
ACT FIRED		44300.41	55.08
TOTAL FOR THE DIVISION	399		
F4 NPD			
ACT TOTAL	71	11726.70	9.95
ACT FIRED	6	982.35	.83
TOTAL FOR DISTRICT G2 AT PORTLAND	77	12709.05	10.68
ACT TOTAL	77	10650.00	.27
ACT FIRED		23359.05	10.96
TOTAL FOR THE DIVISION	77		
F5 NPD			
ACT TOTAL	83	19837.00	11.62
ACT FIRED	5	1195.00	.70
TOTAL FOR DISTRICT G3 AT SEATTLE	88	21032.00	12.32
ACT TOTAL	88	10650.00	.27
ACT FIRED		31842.00	12.59
TOTAL FOR THE DIVISION	88		



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ACT TOTAL		328	39954.13	45.18
ACT FIRED		76	5631.63	18.41
TOTAL FOR THE DIVISION		404	45585.77	63.59
		406	47570.00	1.09
		406	47189.77	58.67
-----				
ACT TOTAL		150	16775.44	28.66
ACT FIRED		207	24717.59	28.54
TOTAL FOR DISTRICT #3 AT JACKSONVIL		357	41493.03	49.20
		357	10650.00	.27
		357	52143.03	49.47
-----				
ACT TOTAL		34	8113.29	4.76
ACT FIRED		43	10217.00	9.02
TOTAL FOR DISTRICT #5 AT MOBILE		77	18330.29	18.78
		77	10650.00	.27
		77	29040.29	11.05
-----				
ACT TOTAL		64	15296.00	8.96
ACT FIRED		9	2151.00	1.26
TOTAL FOR DISTRICT #4 AT SAVANNAH		73	17447.00	18.22
		73	10650.00	.27
		73	28097.00	18.49
-----				
ACT TOTAL		248	40194.73	34.38
ACT FIRED		259	37145.59	35.82
TOTAL FOR THE DIVISION		507	77330.32	70.20
		507	31950.00	.82
		507	109280.32	71.02
-----				
ACT TOTAL		112	26713.64	15.68
ACT FIRED		20	4779.87	2.88
TOTAL FOR DISTRICT L1 AT LOS ANGELES		132	31493.51	18.49
		132	10650.00	.27
		132	42143.51	18.75
-----				
ACT TOTAL		119	24199.91	16.66
ACT FIRED		6	1786.95	1.12
TOTAL FOR DISTRICT L2 AT SACRAMENTO		127	25977.86	17.77
		127	10650.00	.27
		127	46627.86	18.85

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-----  
 N R  
 ACT TOTAL 231 54904.34 32.34  
 ACT FIXED 78 6566.82 3.92  
 -----  
 259 61471.16 36.25  
 21300.00 .55  
 -----  
 259 82771.16 36.80  
 -----  
 TOTAL FOR THE DIVISION

M: SWD  
 N R  
 ACT TOTAL 226 43947.13 31.59  
 ACT FIXED 52 10373.80 7.26  
 -----  
 278 54320.93 38.84  
 10650.00 .27  
 -----  
 278 64970.93 39.12  
 -----  
 TOTAL FOR DISTRICT M1 AT ALBUQUERQUE

N R  
 ACT TOTAL 62 14895.23 8.68  
 ACT FIXED 46 10994.00 6.44  
 -----  
 108 25679.22 15.12  
 10650.00 .27  
 -----  
 108 36329.22 15.39  
 -----  
 TOTAL FOR DISTRICT M2 AT FT. WORTH

N R  
 ACT TOTAL 65 15166.00 9.09  
 ACT FIXED 14 3158.70 1.96  
 -----  
 79 18324.70 11.05  
 10650.00 .27  
 -----  
 79 28974.70 11.32  
 -----  
 TOTAL FOR DISTRICT M3 AT GALVESTON

N R  
 ACT TOTAL 25 5383.96 3.50  
 ACT FIXED 14 3296.30 1.96  
 -----  
 39 8680.26 5.46  
 10650.00 .27  
 -----  
 39 19330.26 5.73  
 -----  
 TOTAL FOR DISTRICT M4 AT LITTLE ROCK

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N  
R

52	12181.81	7.28
8	1746.62	1.12
60	13928.43	8.40
	10650.00	.27
60	24578.43	8.67

ACT TOTAL  
ACT FIRED

TOTAL FOR DISTRICT M5 AT TULSA

N  
R

430	91364.12	60.14
134	29569.41	18.73
564	120933.54	78.87
	53250.00	1.37
564	174193.54	80.23

ACT TOTAL  
ACT FIRED

TOTAL FOR THE DIVISION

3609	948234.29	509.26
3609	948234.29	509.26

COMPLETE TOTAL THIS ASSIGNMENT

COMPLETE TOTAL THIS ASSIGNMENT

Example 2

COMMAND- attach,f,profile,id=puaj

PP CYCLE NO. = 001

COMMAND- begin(ex,f,a=i,t=2,yr=6,nf=inlex,dn=inlexdn)

WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,  
NO. OF TRIP,FIXED COST/OFFICE,FIXED MAN YR/OFFICE, AVG WAGE/DAY?  
IF YES TYPE Y;OTHERWISE TYPE N:

PF CYCLE NO. = 001

PF CYCLE NO. = 002

CM LWA+1 = 21251B, LOADER USED 33300Bn

WANT TO DELETE ANY DISTRICT? TYPE Y OR N:y

PLEASE ENTER THE DIVISION NAME(S) AND DISTRICT NO.(S) WHICH ARE  
TO BE DELETED WITH ONE BLANK IN BETWEEN AND ENTER THEM ALL IN  
ONE LINE

m3 a2 e4

THANK YOU.

STOP

.140 CP SECONDS EXECUTION TIME

PF CYCLE NO. = 002

PF CYCLE NO. = 002

PF CYCLE NO. = 002

CM LWA+1 = 31571B, LOADER USED 43600B

END IMAP2

26.452 CP SECONDS EXECUTION TIME

THIS IS A TYPE 2 MAP PROGRAM FOR INLEASING ACTIVITY  
THE FOLLOWING VALUES ARE USED IN THE PARAMETERS:

COST/UNIT= 239.000  
MAN YR/UNIT= .140  
NO. OF TRIP= 1.000  
FIXED COST/OFFICE= 10650.000  
FIXED MAN YR/OFFICE= .273  
AVG WAGE/DAY= 64.790

1631 RECORDS READ FROM THE MASTER FILE  
THE FOLLOWING DISTRICTS WERE CLOSED  
M3 A2 E4





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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE OF THE CLOSED OFFICE (OTHER REMAIN AS EXISTING)

DIVISION	INLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMVD				
	R	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
	N	4	956.00	.56
	R	1	239.00	.14
ACT TOTAL		5	1195.00	.70
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	11845.00	.97
	N	17	4219.05	2.38
	R	2	478.00	.28
ACT TOTAL		19	4697.05	2.66
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A4 AT VICKSBURG		19	15347.05	2.93
	N	21	5175.05	2.94
	R	4	956.00	.56
ACT TOTAL		25	6131.05	3.50
ACT FIXED			31950.00	.82
TOTAL FOR THE DIVISION		25	38081.05	4.32
	N	85	20315.00	11.90
	R	35	8365.00	4.90
ACT TOTAL		120	28680.00	16.80
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C1 AT KANSAS CIT		120	39330.00	17.07
	N	564	134796.00	78.96
	R	271	64769.00	37.94
ACT TOTAL		835	199565.00	116.90
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		835	210215.00	117.17

N R  
 ACT TOTAL 155111.00 90.86  
 ACT FIXED 23136.00 42.84  
 -----  
 22825.00 133.70  
 21300.00 55  
 -----  
 24955.00 134.25  
 -----  
 TOTAL FOR THE DIVISION

OI MED  
 ACT TOTAL 0 0.00  
 ACT FIXED 10650.00 .27  
 -----  
 10650.00 .27  
 -----  
 TOTAL FOR DISTRICT OI AT BOSTON

ACT TOTAL 0 0.00  
 ACT FIXED 10650.00 .27  
 -----  
 10650.00 .27  
 -----  
 TOTAL FOR THE DIVISION

EI MAD  
 N R  
 ACT TOTAL 93025.17 54.19  
 ACT FIXED 4063.00 2.38  
 -----  
 97088.17 56.57  
 10650.00 .27  
 -----  
 107738.17 56.84  
 -----  
 TOTAL FOR DISTRICT EI AT BALTIMORE

N R  
 ACT TOTAL 107311.00 62.86  
 ACT FIXED 4740.00 2.80  
 -----  
 112051.00 65.66  
 10650.00 .27  
 -----  
 122701.00 65.93  
 -----  
 TOTAL FOR DISTRICT E3 AT NEW YORK

N  
 ACT TOTAL 239.00 .14  
 ACT FIXED 239.00 .14  
 -----  
 10650.00 .27  
 -----  
 10889.00 .41  
 -----  
 TOTAL FOR DISTRICT E5 AT PHILADELPH

N R  
 ACT TOTAL 200575.17 117.19  
 ACT FIXED 8843.00 5.78  
 -----  
 209418.17 122.97  
 31950.00 .82  
 -----  
 241368.17 123.79  
 -----  
 TOTAL FOR THE DIVISION

AD-A057 146

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAI--ETC F/G 5/1  
REAL ESTATE MODEL OF ACTIVITY PERFORMANCE (REMAP) USER'S MANUAL--ETC(U)  
JUL 78 C P ALTHEIDE

UNCLASSIFIED

CERL-TR-P-89

NL

2 of 3

AD  
A057 146



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F: MCD		N						
		R	5	1195.00			.76	
ACT TOTAL			6	1912.00			1.12	
ACT FINED			13	3107.00			1.82	
TOTAL FOR DISTRICT F2 AT CHICAGO			13	13757.00			2.89	
-----								
G1 MPD		N	5	1195.00			.76	
		R	6	1912.00			1.12	
ACT TOTAL			13	3107.00			1.82	
ACT FINED			13	10650.00			.27	
TOTAL FOR THE DIVISION			13	13757.00			2.89	
-----								
G2 AT PORTLAND		N	2	678.00			.28	
		R	2	678.00			.28	
ACT TOTAL			2	10650.00			.27	
ACT FINED			2	11128.00			.55	
TOTAL FOR DISTRICT G2 AT PORTLAND			191	45649.00			28.76	
			19	4541.00			2.86	
ACT TOTAL			210	50190.00			29.48	
ACT FINED			210	10650.00			.27	
TOTAL FOR DISTRICT G3 AT SEATTLE			210	60846.00			29.67	
-----								
G4 AT WALLA WALL		N	1	239.00			.16	
		R	1	239.00			.16	
ACT TOTAL			1	10650.00			.27	
ACT FINED			1	10889.00			.61	
TOTAL FOR DISTRICT G4 AT WALLA WALL			196	46366.00			27.16	
			19	4541.00			2.86	
ACT TOTAL			213	50907.00			29.82	
ACT FINED			213	31956.00			.82	
TOTAL FOR THE DIVISION			213	82957.00			30.64	
-----								
M1 ORD		N	9	1696.14			1.25	

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ACT TOTAL				1696.14	1.25
ACT FIRED				18658.00	.27
TOTAL FOR DISTRICT #1 AT MONTGOMERY				12366.14	1.53
ACT TOTAL	N			956.00	.56
ACT FIRED				956.00	.56
TOTAL FOR DISTRICT #2 AT LOUISVILLE				18658.00	.27
				11606.00	.83
ACT TOTAL	N			239.00	.16
ACT FIRED				239.00	.16
TOTAL FOR DISTRICT #3 AT NASHVILLE				18658.00	.27
				18889.00	.41
ACT TOTAL	N			478.00	.28
ACT FIRED				478.00	.28
TOTAL FOR DISTRICT #4 AT PITTSBURGH				18658.00	.27
				11128.00	.55
-----					
ACT TOTAL	N			3369.14	2.23
ACT FIRED				3369.14	2.23
TOTAL FOR THE DIVISION				42888.00	1.89
				45999.14	3.33
ACT TOTAL	N			1034.00	.84
ACT FIRED				1034.00	.84
TOTAL FOR DISTRICT #5 AT JACKSONVILLE				18658.00	.27
				12884.00	1.11
ACT TOTAL	N			46856.36	38.54
ACT FIRED				49549.00	41.74
TOTAL FOR DISTRICT #5 AT MOBILE				136405.36	79.28
				18658.00	.27
				164299.36	79.65
ACT TOTAL	N			33221.00	19.46
ACT FIRED				4063.00	2.38
TOTAL FOR DISTRICT #6 AT SAVANNAH				37294.00	21.84
				18658.00	.27
				47934.00	22.11

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		M	415	99277.36	58.10
		R	314	75066.00	43.96
ACT TOTAL					
ACT FIRED			729	174323.36	102.06
TOTAL FOR THE DIVISION			729	31950.00	.82
				206273.36	102.80
-----					
L1 SPO					
		M	271	64769.00	37.94
		R	26	6214.00	3.64
ACT TOTAL					
ACT FIRED			297	70983.00	41.58
TOTAL FOR DISTRICT L1 AT LOS ANGELE			297	10650.00	.27
				81633.00	41.85
-----					
L2 SACRAMENTO					
		M	135	32265.00	18.90
		R	10	2390.00	1.40
ACT TOTAL					
ACT FIRED			145	34655.00	20.30
TOTAL FOR DISTRICT L2 AT SACRAMENTO			145	10650.00	.27
				45305.00	20.57
-----					
M1 SUD					
		M	406	97034.00	56.84
		R	36	804.00	5.04
ACT TOTAL					
ACT FIRED			442	105638.00	61.88
TOTAL FOR THE DIVISION			442	21300.00	.55
				126938.00	62.43
-----					
M2 FT. WORTH					
		M	18	4382.00	2.52
		R	12	2886.00	1.88
ACT TOTAL					
ACT FIRED			30	7170.00	4.29
TOTAL FOR DISTRICT M1 AT ALBUQUEROU			30	10450.00	.27
				17820.00	4.47
-----					
M2 FT. WORTH					
		M	167	43749.60	23.43
		R	73	17447.00	10.22
ACT TOTAL					
ACT FIRED			240	61196.60	33.65
TOTAL FOR DISTRICT M2 AT FT. WORTH			240	10650.00	.27
				71846.60	33.92
-----					
		M	17	3952.80	2.30
		R	13	3107.80	1.82

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ACT TOTAL	30	7059.80	4.20
ACT FIRED		10650.00	.27
TOTAL FOR DISTRICT M4 AT LITTLE ROCK	30	17709.81	4.47
ACT TOTAL	40	9560.00	5.60
ACT FIRED	2	478.00	.28
TOTAL FOR DISTRICT M5 AT TULSA	42	10038.00	5.88
		10650.00	.27
	42	20688.00	6.15
-----			
ACT TOTAL	242	61564.40	33.93
ACT FIRED	100	23900.00	14.00
TOTAL FOR THE DIVISION	342	85464.40	47.93
		42600.00	1.09
	342	128064.40	49.02
-----			
COMPLETE TOTAL THIS ASSIGNMENT	3609	1143503.12	512.41
COMPLETE TOTAL THIS ASSIGNMENT	3609	1143503.12	512.41

Example 3a

COMMAND- begin(ex,f,a=i,t=1,yr=6,l=c,nc=div12,r=y,nf=in112,dn=in112dn)  
DO YOU WANT TO CREATE THE OFFICE DIST OR JUST ADD SOME TO THE OLD ONE?  
TYPE C FOR CREATE;TYPE A FOR ADD:

PF CYCLE NO. = 001

PF CYCLE NO. = 002

CM LWA+1 = 20003B, LOADER USED 32000Bc

PLEASE ENTER EACH SET OF INFORMATION IN ONE LINE IN THE FOLLOWING FORMAT

XY ADAMLUDLM LOCATION

START FROM 1ST COLUMN,TYPE

X:DIV SYMBOL;USE ANY ALPHABETIC CHARACTER FROM A TO N EXCEPT I OR J;

Y: DISTRICT NO.;ANY NUMBER FROM 0-9, 0 MUST BE USED FOR DIVISION OFFICE;

...DO NOT CREATE A DISTRICT CODE UNLESS A DIVISION CODE IS ALSO

CREATED OR ALREADY EXISTS...

THEN 4 BLANKS,AND

AD: 2 DIGITS FOR DEGREE OR LATITUDE;

MD: 2 DIGITS FOR MINUTE OF LATITUDE;

LDD: 3 DIGITS FOR DEGREE OF LONGITUDE;

DM: 2 DIGITS FOR MINUTE OF LONGITUDE;

TYPE 1 BLANK,AND THEN

LOCATION:10 CHARACTERS FOR BRIEF NAME OF LOCATION

FOR EXAMPLE:

A0 123456789 CERL  
A1 123456789 CHAMPAIGN  
B0 3790 7700 OCE  
B  
B1 3790 7700 WASH D.C.

...FOR ANY DUPLICATE XY IN THE LIST, ONLY THE FIRST OCCURRENCE  
WILL BE RECOGNIZED, OTHER(S) WILL BE IGNORED. AFTER ENTERING  
ALL DATA, PLEASE TYPE ++ IN THE FIRST TWO COLUMNS ON THE NEXT LINE...

a0 3221 9053 lmvd  
a1 3221 9053 vicksburg  
c0 4117 9601 mrd  
c2 4117 9601 omaha  
b0 3837 9012 st. louis  
b3 3837 9012 st. louis  
e0 4043 7400 nad  
e4 4043 7400 new york  
f0 4153 8738 ned  
f5 4153 8738 chicago  
g0 453212237 npd  
q1 453212237 portland  
h6 3906 8431 cincinnati  
d0 4223 7114 ned

d6 4223 7114 boston  
k0 3345 8423 sad  
control y  
k7 3345 8423 atlanta  
l0 374712225 spd  
l8 374712225 san franci  
m0 3247 9649 swd  
m9 3247 9649 dallas  
n0 394410459 denver  
n7 394410459 denver  
++

THANK YOU

WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,  
NO. OF TRIP,FIXED COST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?  
IF YES TYPE Y;OTHERWISE TYPE N:

STOP

.348 CP SECONDS EXECUTION TIME

INITIAL CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN=DIV12

CT CY= 001 00000003 PRUS \$0000.01 /DAY

PF CYCLE NO. = 002

PF CYCLE NO. = 003

PF CYCLE NO. = 004

PF CYCLE NO. = 001

PF CYCLE NO. = 002

CM LWA+1 = 212510, LOADER USED 33300Bn

WANT TO DELETE ANY DISTRICT? TYPE Y OR N:n

THANK YOU.

STOP

.082 CP SECONDS EXECUTION TIME

CM LWA+1 = 30207B, LOADER USED 42200B

STOP

104.341 CP SECONDS EXECUTION TIME

INITIAL CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN-INL12

CT CY= 001 00000281 PRUS \$0000.70 /DAY

INITIAL CATALOG

RP = 030 DAYS

CT ID= PUAJ PFN=INL12DN

CT CY= 001 00000004 PRUS \$0000.01 /DAY

PF CYCLE NO. = 002

CM LWA+1 = 37151B, LOADER USED 51200B

END IMAPI

32.616 CP SECONDS EXECUTION TIME

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THIS IS A TYPE 2 MAPDATA PROGRAM FOR INLEASING ACTIVITY  
THE FOLLOWING OFFICES ARE USED FOR THE EXISTING ASSIGNMENT:

A0 LMVD  
A1 MEMPHIS  
A2 NEW ORLEAN  
A3 ST. LOUIS  
A4 VICKSBURG  
C0 MRD  
C1 KANSAS CIT  
C2 OMAHA  
D0 NED  
D1 BOSTON  
E0 NAD  
E1 BALTIMORE  
E3 NEW YORK  
E4 NORFOLK  
E5 PHILADELPH  
F0 NCD  
F2 CHICAGO  
G0 NPD  
G2 PORTLAND  
G3 SEATTLE  
G4 WALLA WALL  
H0 ORD  
H1 HUNTINGTON  
H2 LOUISVILLE  
H3 NASHVILLE  
H4 PITTSBURGH  
K0 SAD  
K3 JACKSONVIL  
K5 MOBILE  
K6 SAVANNAH  
L0 SPD  
L1 LOS ANGELE  
L2 SACRAMENTO  
M0 SWD  
M1 ALBUQUERQU  
M2 FT. WORTH  
M3 GALVESTON  
M4 LITTLE ROC  
M5 TULSA

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THE FOLLOWING OFFICES ARE USED FOR NEW ASSIGNMENT:

A0 LMVD  
A1 VICKSBURG  
C0 MRD  
C2 OMAHA  
R0 ST. LOUIS  
R3 ST. LOUIS  
E0 NAD  
E4 NEW YORK  
F0 NCD  
F5 CHICAGO  
G0 NPD  
G1 PORTLAND  
H0 ORD  
H6 CINCINNATI  
D0 NED  
D6 BOSTON  
K0 SAD  
K7 ATLANTA  
L0 SPD  
LA SAN FRANCI  
M0 SWD  
M9 DALLAS  
N0 DENVER  
N7 DENVER

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THE FOLLOWING MASTER FILE RECORDS HAVE NOT BEEN ASSIGNED DUE TO ONE OF THE FOLLOWING REASONS  
1. NO MATCH WAS FOUND FOR THIS RECORD IN THE LAT/LONG FILE  
2. THE DIV/DIST CODE FOR THIS RECORD WAS NOT FOUND IN THE DIVDISTOFFICE DATA FILE

AGANA GUAM	00	ZZ R
ALAMOGORDO	49	M1 N
ALDENVILLE	47	E1 N
ALEXANDRIA	48	HP N
ANGLETON TX	48	M3 N
ANNE ARUNDEL	24	E1 N
ANSAS CITY	20	C1 N
ARNOLD	29	C1 N
ASHFORD	00	E3 N
ATCHISON	29	C1 N
BALBOA	90	ZZ R
BARRINGTON	33	E3 N
BERLIN	50	E3 N
BOLIVAR	54	E1 N
BRANDON	47	K5 N
CANFIELD	30	E1 N
CANOGA PARK	04	L1 N
CARLE PLACE	34	E3 N
CHAPLIN	09	E3 N
CHAS HEIGHTS	45	K6 N
CLARKSVILLE	19	CP N
CODY	21	HP N
COLCHESTER	50	E3 N
COLONIE	34	E3 N
CORINTHAL CORN	28	M3 R
DODGE CITY	29	C1 N
DORCHESTER	25	E3 N
DOUGLASSVILLE	47	E1 N
EAGAN	27	CP N

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EAGAN	27	C2 R
EASTHAM	25	E3 N
EDWARDSVILLE	42	E1 N
EGAN	27	C2 N
ENON	39	E1 N
ETROIT	26	C2 N
FAIRHANKS ALS	02	G1 N
FALLINGWATERS	54	E1 N
FALLON	06	L2 N
FORESTPORT	36	E3 N
FT LAUDERHILL	12	K5 N
GAMBRA	PQ	K5 R
GLENDALE	54	E1 N
GRAND HANAMA ISHF		K3 R
GR COVE SPRINGS 12		K5 N
HARWOOD MINES	42	E1 N
HEMPLE	29	C1 N
HONOLULU/HAW	15	Z2 R
HONOLULU	15	Z2 N
HONOLULU	15	Z2 R
HOPKINSVILLE	42	E1 N
ILADELPHIA PENNA 2		E5 N
JACK	01	K5 R
JAMAICA	36	E3 N
JONESHORE	42	K5 N
JUNEAU ALS	02	G1 N
KAWAII OA/HONO	15	Z2 N
KEARSARGE	26	C2 N
KNOXVILLE	27	K5 R
KODIAK ALS	02	G1 N
LAGRANDE	13	K6 R
LAKEHEAD	06	L2 N
LAKE HATRINE	36	E3 N

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LA VISTA	31	C2 N
LEMONT FURNACE	42	E1 N
LOUISVILLE	47	K5 R
LOWELL	37	K6 N
MARSCOTT	54	E1 N
MADISON TOWNSHIP	34	E3 N
MAPLETON	38	C2 N
MARSHFIELD	25	E3 N
MARYVILLE	37	K5 R
MASON CITY	18	C2 N
MECHANICAL	36	E3 N
WESTAD	12	K5 R
MIRAFESTE	06	L1 N
MOLINE ACRES	29	C1 N
MONROE	42	E1 N
NASHVILLE	12	K5 R
NASHVILLE	48	K5 N
NEW HOPE	51	E1 N
N CAR	37	K6 N
OFALLON	29	C1 N
OKLAHOMA CITY	32	M1 R
ONESBORO	05	M4 N
ON	01	K5 R
PANAMA CITY	PN	Z7 N
PARLIN	34	E3 N
PENACOOK	33	E3 N
PISCATAWAY	34	E3 N
PLAINVILLE	09	E3 N
PORT RICHEY	12	K5 N
POWELL	47	K5 R
REGISTERSTOWN	24	E1 N
RIDGEWAY	42	E1 N
RODMAN	PO	Z7 N

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ROWLAND HEIGHTS04		L1 N
SALT LAKE CITY	49	L2 N
SANDY	49	L2 N
SARGENT BLUFF	19	C2 R
SCOTLAND	09	E3 N
SCOTTSVILLE	36	E3 N
SEWARD ALASKA	02	G1 N
SEWARD ALS	02	G1 N
SHARRONA	17	C2 N
SHORT CREEK	39	E1 R
SIERRA	32	M1 R
SOMERS POINT	34	E3 N
SOMERS PT	34	E3 N
SPATSH FORK	49	L2 N
STAFFORD	36	E3 N
STOW	39	E1 N
SWOYERSVILLE	42	E1 N
TARZANA	06	L1 N
TEMPLE TERRACE	12	K5 N
TIERRA DEL MAR	41	G3 N
TIGRETT	47	K5 N
TOPEKA	29	C1 N
TRAVERSE	26	C2 N
TUJUNGA	06	L1 N
ULSA OKLA	40	M5 N
WAHIAWA/HONO	15	Z2 N
WAHIAWA/HONO	15	Z2 R
WALWORTH	36	E3 R
WATERFORD	09	E3 N
WATSON	26	C2 R
WESLACO TX	48	M3 N
WESTHPTN BFACH34		E3 N
WESTPORT	25	E3 N

WEST GORHAM	23	E3 N
WEST WILLINGTON	09	E3 N
NDE	04	L1 N
SAN JOSE	06	L2 N

END OF LAT/LONG FILE  
RECORDS READ 3607  
RECORDS WITH LAT/LONG OUT OF RANGE 382  
RECORDS WHICH WERE NOT MATCHED 1788

END OF MASTER FILE ENCOUNTERED  
MASTER FILE RECORDS READ, 1763  
MASTER FILE RECORDS WHICH WERE NOT MATCHED 132

NUMBER OF RECORDS WRITTEN IS 1631

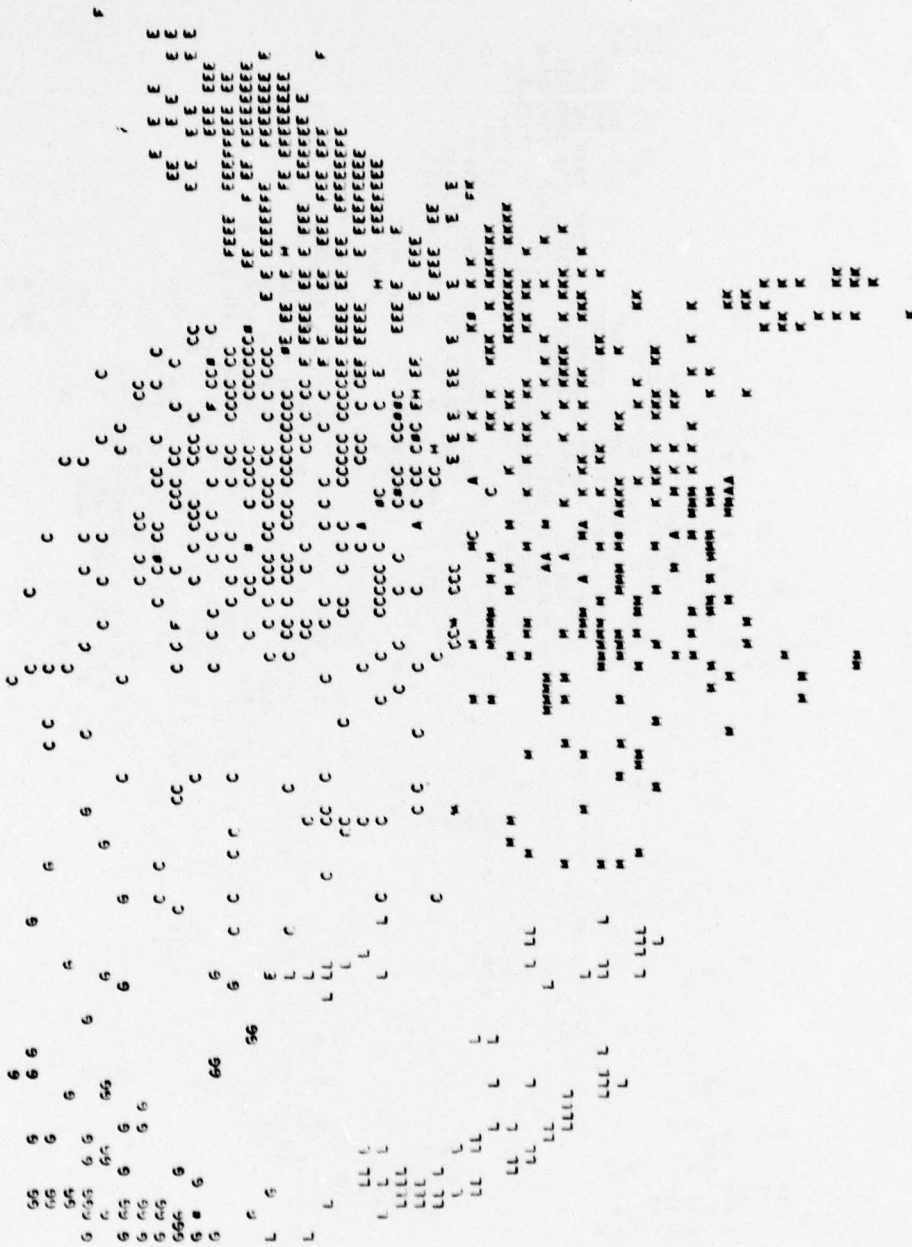
THIS IS A TYPE 1 MAP PROGRAM FOR INLEASING ACTIVITY

THE FOLLOWING VALUES ARE USED IN THE PARAMETERS:

COST/UNIT=	239.000
MAN YR/UNIT=	.140
NO. OF TRIP=	1.000
FIXED COST/OFFICE=	10650.000
FIXED MAN YR/OFFICE=	.273
AVG WAGE/DAY=	64.790

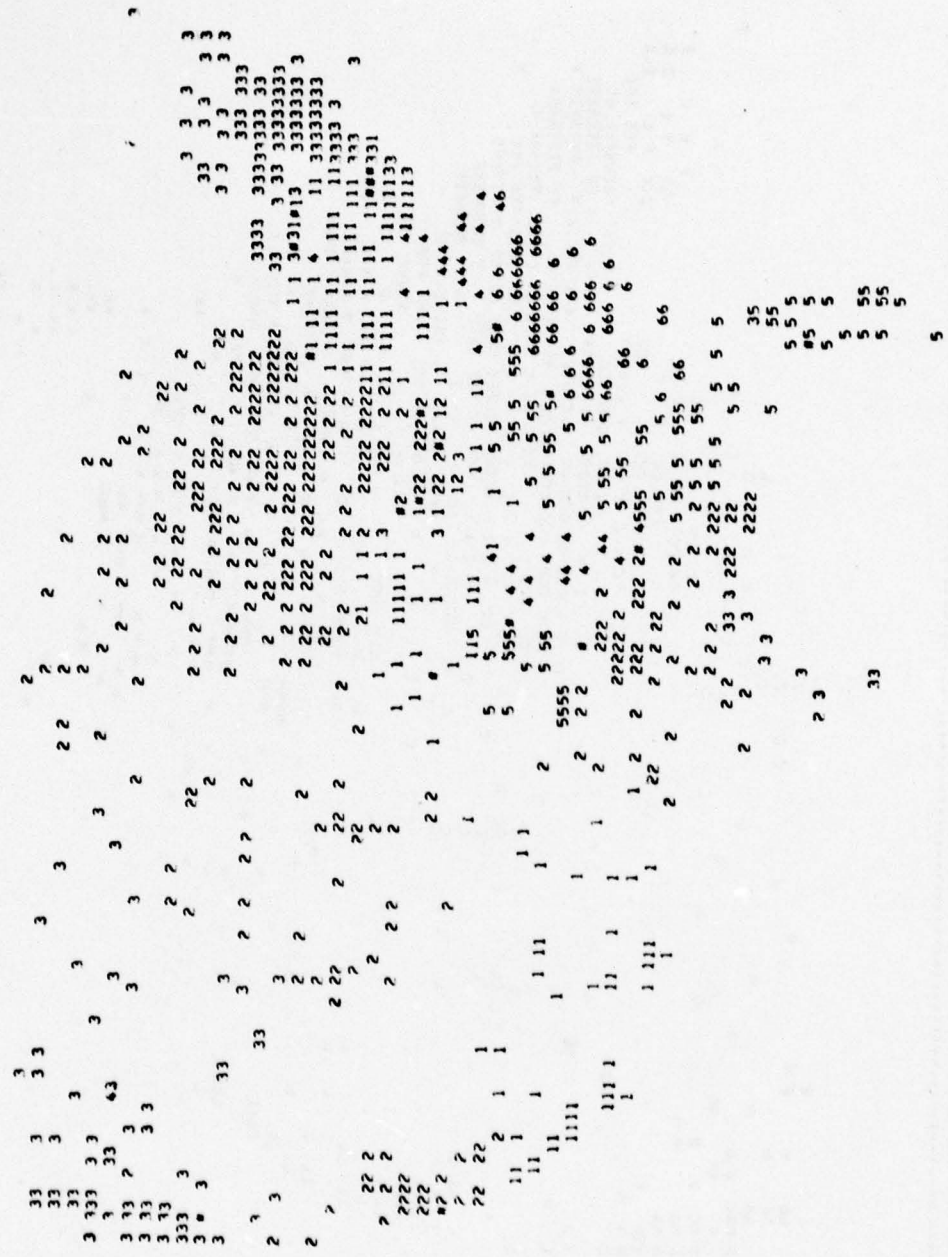
3262 RECORDS READ FROM THE MASTER FILE

MAP OF EXISTING DIVISION ASSIGNMENTS

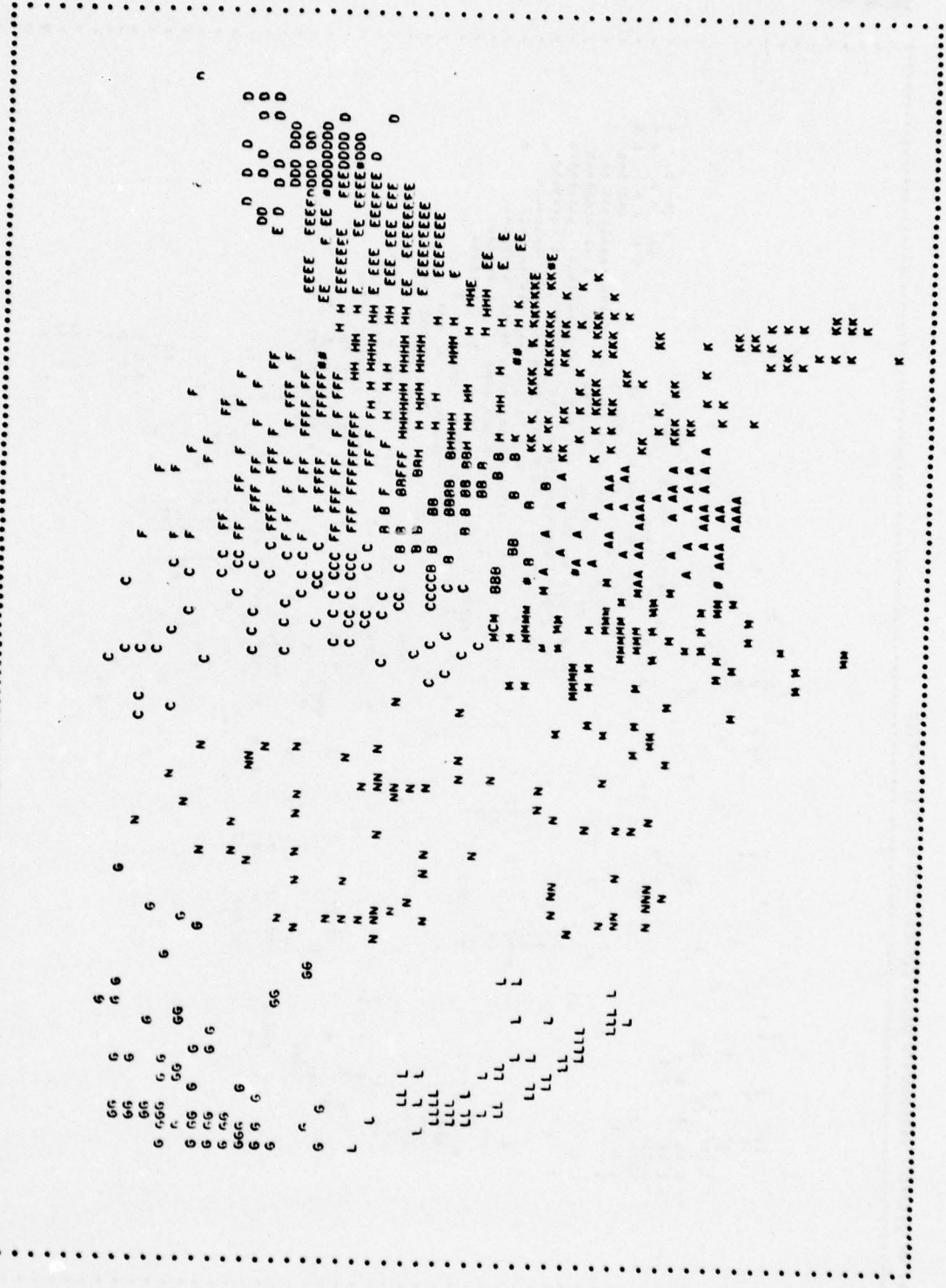


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MAP OF EXISTING DISTRICT ASSIGNMENTS



MAP OF DIVISION ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE





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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT OF THE EXISTING DISTRICT OFFICE

DIVISION	IMPLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMO				
	P	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIRED		1	10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIRED		4	10650.00	.27
TOTAL FOR DISTRICT A2 AT NEW ORLEAN		4	11606.00	.83
	N	4	956.00	.56
	P	1	239.00	.14
ACT TOTAL		5	1195.00	.70
ACT FIRED		5	10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	11845.00	.97
	N	13	3107.00	1.82
	P	2	478.00	.28
ACT TOTAL		15	3585.00	2.10
ACT FIRED		15	10650.00	.27
TOTAL FOR DISTRICT A4 AT VICKSBURG		15	14235.00	2.37
-----				
	N	21	5019.00	2.94
	P	4	956.00	.56
ACT TOTAL		25	5975.00	3.50
ACT FIRED		25	42600.00	1.09
TOTAL FOR THE DIVISION		25	48575.00	4.59
-----				
C: MO				
	N	85	20315.00	11.90
	P	35	8345.00	4.90
ACT TOTAL		120	28660.00	16.80
ACT FIRED		120	10650.00	.27
TOTAL FOR DISTRICT C1 AT KANSAS CIT		120	39310.00	17.07



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ACT TOTAL 239.00 .16  
ACT FIRE 239.00 .16  
10650.00 .27  
10009.00 .61

TOTAL FOR DISTRICT F5 AT PHILADELPH

ACT TOTAL 282194.00 114.44  
ACT FIRE 84433.00 5.18  
211037.00 123.62  
42808.00 1.99  
253637.00 124.71

TOTAL FOR THE DIVISION

F: MPD

ACT TOTAL 1195.00 .70  
ACT FIRE 1912.00 1.12  
3107.00 1.82  
10650.00 .27  
13757.00 2.09

TOTAL FOR DISTRICT F2 AT CHICAGO

ACT TOTAL 1195.00 .70  
ACT FIRE 1912.00 1.12  
3107.00 1.82  
10650.00 .27  
13757.00 2.09

TOTAL FOR THE DIVISION

G: MPD

ACT TOTAL 678.00 .28  
ACT FIRE 678.00 .28  
10650.00 .27  
11129.00 .55

TOTAL FOR DISTRICT G2 AT PORTLAND

ACT TOTAL 45649.00 26.74  
ACT FIRE 4561.00 2.66  
50199.00 29.49  
10650.00 .27  
60849.00 29.87

TOTAL FOR DISTRICT G3 AT SEATTLE

ACT TOTAL 239.00 .16  
ACT FIRE 239.00 .16  
10650.00 .27  
10009.00 .61

TOTAL FOR DISTRICT G4 AT WALLA WALLA

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		N							
ACT TOTAL		194	66366.00	27.16					
ACT FIRED		10	6541.00	7.66					
TOTAL FOR THE DIVISION		213	50907.00	29.82					
		213	31950.00	.82					
		213	62957.00	30.84					
-----									
M: OPO									
ACT TOTAL		0	0.00	0.00					
ACT FIRED		0	10650.00	.27					
TOTAL FOR DISTRICT #1 AT HUNTINGTON		0	10650.00	.27					
-----									
ACT TOTAL		4	956.00	.56					
ACT FIRED		4	956.00	.56					
TOTAL FOR DISTRICT #2 AT LOUISVILLE		4	10650.00	.27					
		4	11006.00	.83					
-----									
ACT TOTAL		1	239.00	.14					
ACT FIRED		1	239.00	.14					
TOTAL FOR DISTRICT #3 AT NASHVILLE		1	10650.00	.27					
		1	10889.00	.41					
-----									
ACT TOTAL		2	478.00	.28					
ACT FIRED		2	478.00	.28					
TOTAL FOR DISTRICT #4 AT PITTSBURGH		2	10650.00	.27					
		2	11126.00	.55					
-----									
ACT TOTAL		7	1673.00	.98					
ACT FIRED		7	1673.00	.98					
TOTAL FOR THE DIVISION		7	4768.00	1.09					
		7	6423.00	2.07					
-----									
F: S&D									
ACT TOTAL		6	1436.00	.84					
ACT FIRED		6	1436.00	.84					
TOTAL FOR DISTRICT #5 AT JACKSONVIL		6	10650.00	.27					
		6	12006.00	1.11					

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ACT TOTAL	274	65,486.00	34,234
ACT FIRED	291	69,445.00	68,174
TOTAL FOR DISTRICT #4 AT MOBILE	565	134,931.00	79,118
	565	145,685.00	79,237
ACT TOTAL	134	33,221.00	19,446
ACT FIRED	17	4863.00	2,338
TOTAL FOR DISTRICT #4 AT SAVANNAH	156	37,284.00	21,884
	156	18,658.00	2,277
	156	47,932.00	22,111
ACT TOTAL	413	98,707.00	57,822
ACT FIRED	314	75,846.00	61,946
TOTAL FOR THE DIVISION	727	173,753.00	181,778
	727	31,956.00	82
	727	205,709.00	182,600
L: SPD	271	64,769.00	37,944
	24	6,214.00	3,644
ACT TOTAL	297	70,983.00	41,588
ACT FIRED	297	10,650.00	2,277
TOTAL FOR DISTRICT L1 AT LOS ANGELES	297	81,633.00	43,865
	134	32,265.00	18,490
	16	2,308.00	1,440
ACT TOTAL	145	34,553.00	20,330
ACT FIRED	145	10,650.00	2,277
TOTAL FOR DISTRICT L2 AT SACRAMENTO	145	45,365.00	22,607
ACT TOTAL	466	97,034.00	56,444
ACT FIRED	34	8,664.00	5,064
TOTAL FOR THE DIVISION	442	105,038.00	61,008
	442	21,308.00	1,955
	442	126,936.00	62,463



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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE

DIVISION	IMPLESSING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LMD	N	122	24611.58	16.99
	R	53	12438.09	7.41
ACT TOTAL				
ACT FILED		175	37049.67	24.40
TOTAL FOR DISTRICT A1 AT VICKSBURG		175	10650.00	.27
			47699.67	24.67

B: ST. LOUIS	N	122	24611.58	16.99
	R	53	12438.09	7.41
ACT TOTAL				
ACT FILED		175	37049.67	24.40
TOTAL FOR THE DIVISION		175	10650.00	.27
			47699.67	24.67

B: ST. LOUIS	N	74	11192.41	10.24
	R	37	5372.45	5.12
ACT TOTAL				
ACT FILED		111	16564.86	15.36
TOTAL FOR DISTRICT W3 AT ST. LOUIS		111	10650.00	.27
			27214.86	15.63

C: MPO	N	74	11192.41	10.24
	R	37	5372.45	5.12
ACT TOTAL				
ACT FILED		111	16564.86	15.36
TOTAL FOR THE DIVISION		111	10650.00	.27
			27214.86	15.63

C: MPO	N	225	56940.48	31.57
	R	99	25393.43	13.96
ACT TOTAL				
ACT FILED		324	82341.92	45.44
TOTAL FOR DISTRICT C2 AT OMAHA		324	10650.00	.27
			92991.92	45.73

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N R  
 ACT TOTAL 225 54949.48 31.57  
 ACT FIRED 99 25393.43 13.96  
 -----  
 TOTAL FOR THE DIVISION 324 80342.91 45.53  
 -----  
 324 92991.92 45.73

D: MED  
 N R  
 ACT TOTAL 209 34722.44 29.02  
 ACT FIRED 14 2591.79 1.95  
 -----  
 TOTAL FOR DISTRICT DA AT BOSTON 223 37314.23 30.97  
 -----  
 223 45964.23 31.23

N R  
 ACT TOTAL 209 36722.44 29.02  
 ACT FIRED 14 2591.79 1.95  
 -----  
 TOTAL FOR THE DIVISION 223 39314.23 30.97  
 -----  
 223 45964.23 31.23

E: MAN  
 N R  
 ACT TOTAL 489 131945.37 69.61  
 ACT FIRED 17 4507.93 2.39  
 -----  
 TOTAL FOR DISTRICT EA AT NEW YORK 505 136453.30 71.00  
 -----  
 505 147103.30 71.27

N R  
 ACT TOTAL 489 131945.37 69.61  
 ACT FIRED 17 4507.93 2.39  
 -----  
 TOTAL FOR THE DIVISION 505 136453.30 71.00  
 -----  
 505 147103.30 71.27

F: MCD  
 N R  
 ACT TOTAL 281 24647.74 36.68  
 ACT FIRED 114 10300.90 16.21  
 -----  
 TOTAL FOR DISTRICT FS AT CHICAGO 395 34948.64 52.89  
 -----  
 395 45248.64 68.99

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M P  
 ACT TOTAL 201 26447.74 28.68  
 ACT FIRED 118 18386.90 16.21  
 TOTAL FOR THE DIVISION 399 34940.65 54.82  
 399 18650.00 .27  
 45598.65 55.09

G: MPD  
 M P  
 ACT TOTAL 201 48630.76 28.18  
 ACT FIRED 19 4560.85 2.66  
 228 53171.61 30.84  
 18650.00 .27  
 TOTAL FOR DISTRICT G1 AT PORTLAND 228 63821.61 31.11

M P  
 ACT TOTAL 201 48630.76 28.18  
 ACT FIRED 19 4560.85 2.66  
 228 53171.61 30.84  
 18650.00 .27  
 TOTAL FOR THE DIVISION 228 63821.61 31.11

M1 OPD  
 M P  
 ACT TOTAL 196 25314.38 27.95  
 ACT FIRED 31 1613.41 4.23  
 227 26927.79 31.28  
 18650.00 .27  
 TOTAL FOR DISTRICT M4 AT CINCINNATI 227 37577.79 31.55

M P  
 ACT TOTAL 196 25314.38 27.95  
 ACT FIRED 31 1613.41 4.23  
 227 26927.79 31.28  
 18650.00 .27  
 TOTAL FOR THE DIVISION 227 37577.79 31.55

M1 SAO  
 M P  
 ACT TOTAL 348 77901.29 48.74  
 ACT FIRED 281 67113.46 39.31  
 638 145094.74 88.05  
 18650.00 .27  
 TOTAL FOR DISTRICT M7 AT ATLANTA 638 195744.74 88.32

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ACT TOTAL 349 77901.29 48.74  
 ACT FIRED 281 67113.66 39.31  
 TOTAL FOR THE DIVISION 630 145094.74 88.05  
 10650.00 .27  
 155744.74 88.32

LI SPO  
 M 214 64812.57 36.19  
 R 24 9512.80 3.97  
 ACT TOTAL 242 74325.37 34.16  
 ACT FIRED 242 10650.00 .27  
 TOTAL FOR DISTRICT LA AT SAN FRANCISCO 242 84975.37 34.43

M  
 R 214 64812.57 36.19  
 28 9512.80 3.97  
 ACT TOTAL 242 74325.37 34.16  
 ACT FIRED 242 10650.00 .27  
 TOTAL FOR THE DIVISION 242 84975.37 34.43

M: SWO  
 M 173 47834.79 24.32  
 R 87 16683.84 9.46  
 ACT TOTAL 240 64518.64 33.72  
 ACT FIRED 240 10650.00 .27  
 TOTAL FOR DISTRICT MO AT DALLAS 240 75168.64 34.00

M  
 R 173 47834.79 24.32  
 87 16683.84 9.46  
 ACT TOTAL 240 64518.64 33.72  
 ACT FIRED 240 10650.00 .27  
 TOTAL FOR THE DIVISION 240 75168.64 34.00

M: DENVER  
 M 253 65018.48 35.59  
 R 60 9428.21 4.34  
 ACT TOTAL 313 74446.69 40.92  
 ACT FIRED 313 10650.00 .27  
 TOTAL FOR DISTRICT WY AT DENVER 313 85096.69 41.19

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	M	P		
ACT TOTAL	253		65818.40	35.59
ACT FIRED	60		9628.21	6.34
	313		75446.60	43.92
			10650.00	.27
TOTAL FOR THE DIVISION	313		86096.60	44.19
COMPLETE TOTAL THIS ASSIGNMENT	3609		913957.54	507.24
COMPLETE TOTAL THIS ASSIGNMENT	3609		913957.54	507.24

Example 3b

NSRDC 6600 INTERCOM U4.5  
DATE 06/29/77  
TIME 12.23.07.

LOGIN,PURJDAVIDS,1189043801

06/29/77 LOGGED IN AT 12.30.13.  
WITH USER-ID 00  
EQUIP/PORT 02/035

LOGIN UPDATED 06/28/77 TODAY IS 06/29/77  
DEVICE SET PASSWORD, NETED, MARS VI

COMMAND- ATTACH,F,PROFILE,ID-PUAJ  
PF CYCLE NO. = 001

COMMAND- BEGIN(EX,F,A-I,T=1,YR=6,NC=DIV12,NF=INL12,DN-INL12DN)  
WANT TO CHANGE ANY VALUE(S) OF COST/UNIT,MAN YR/UNIT,  
NO. OF TRIP,FIXED COST/OFFICE,FIXED MAN YR/OFFICE,AVG WAGE/DAY?  
IF YES TYPE Y;OTHERWISE TYPE N:

PF CYCLE NO. = 001

PF CYCLE NO. = 002

CM LWA+1 = 212511, LOADER USED 33300BN  
WANT TO DELETE ANY DISTRICT? TYPE Y OR N:Y  
PLEASE ENTER THE DIVISION NAME(S) AND DISTRICT NO.(S) WHICH ARE TO BE  
DELETED WITH ONE BLANK IN BETWEEN AND ENTER THEM ALL IN ONE LINE  
R3 N7  
THANK YOU.

STOP

.269 CP SECONDS EXECUTION TIME

PF CYCLE NO. = 001

PF CYCLE NO. = 002

PF CYCLE NO. = 002

CM LWA+1 = 37151B, LOADER USED 512000

END IMAP1

31.303 CP SECONDS EXECUTION TIME

COMMAND- REWIND,OUTPUT

COMMAND- BATCH,OUTPUT,PRINT,YX,CHUN

FILE ICHUN0A SENT, DC=PP

COMMAND- LOGOUT

CPA 36.269 SEC

SS 37.200 SEC

EST. SYSTEM COST \$ 6.68

EST. CONNECT COST \$ 0.17

CONNECT TIME 0 HRS. 4 MIN.

06/29/77 LOGGED OUT AT 12.34.09.

THIS IS A TYPE 1 MAP PROGRAM FOR INLEASING ACTIVITY

THE FOLLOWING VALUES ARE USED IN THE PARAMETERS:

COST/UNIT=	239.000
MAN YR/UNIT=	.140
NO. OF TRIP=	1.000
FIXED COST/OFFICE=	10650.000
FIXED MAN YR/OFFICE=	.273
AVG WAGE/DAY=	64.790

3262 RECORDS READ FROM THE MASTER FILE

THE FOLLOWING DIVISIONS WERE CLOSED- B N

THE FOLLOWING DISTRICTS WERE CLOSED  
R3 N7

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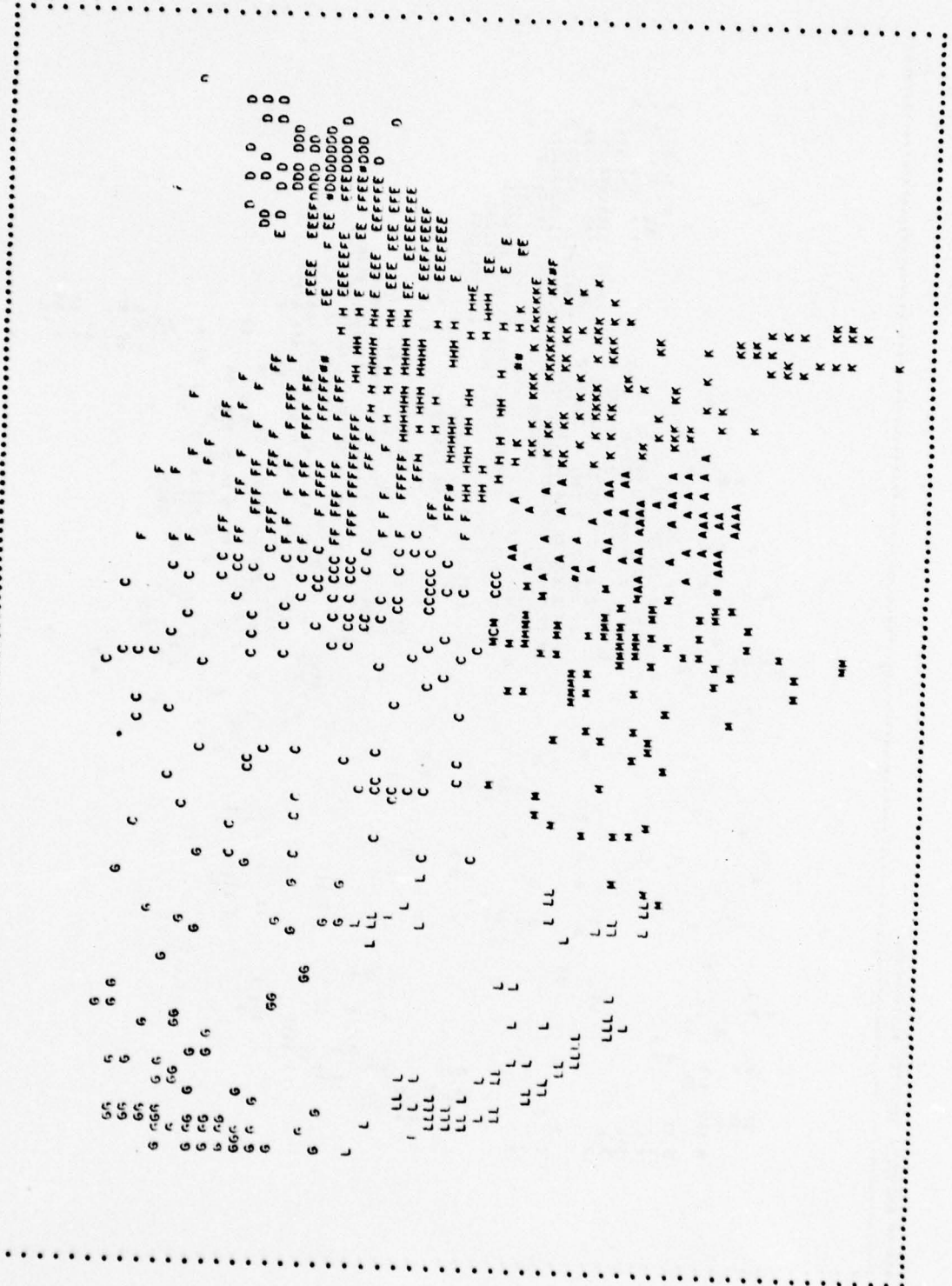
MAP OF EXISTING DIVISION ASSIGNMENTS





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MAP OF DIVISION ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE



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MAP OF DISTRICT ASSIGNMENTS USING CLOSEST OPEN DISTRICT OFFICE



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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
 ASSIGNMENT OF THE EXISTING DISTRICT OFFICE

DIVISION	IMLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A: LWVD				
	R	1	239.00	.14
ACT TOTAL		1	239.00	.14
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A1 AT MEMPHIS		1	10889.00	.41
	N	4	956.00	.56
ACT TOTAL		4	956.00	.56
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A2 AT NEW ORLEAN		4	11606.00	.83
	N	4	956.00	.56
	R	1	239.00	.14
ACT TOTAL		5	1195.00	.70
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A3 AT ST. LOUIS		5	11845.00	.97
	N	13	3107.00	1.82
	R	2	478.00	.28
ACT TOTAL		15	3585.00	2.10
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A4 AT VICKSBURG		15	14235.00	2.37

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	N	21	5019.00	2.94
	R	4	956.00	.56
ACT TOTAL				
ACT FIRED				
		25	5975.00	3.50
			42600.00	1.00
TOTAL FOR THE DIVISION		25	48575.00	4.59

C: MRD	N	05	20315.00	11.00
	R	35	8365.00	4.90
ACT TOTAL				
ACT FIRED		120	20680.00	16.40
			10650.00	.27
TOTAL FOR DISTRICT C1 AT KANSAS CIT		120	39330.00	17.07

	N	564	134795.00	78.96
	R	271	64769.00	37.94
ACT TOTAL				
ACT FIRED		835	199505.00	116.90
			10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		835	210215.00	117.17

	N	649	155111.00	90.46
	R	304	73134.00	42.44
ACT TOTAL				
ACT FIRED		955	228245.00	133.70
			21300.00	.55
TOTAL FOR THE DIVISION		955	249545.00	134.25

D: MED				
ACT TOTAL		0	0.00	0.00
ACT FIRED			10650.00	.27
TOTAL FOR DISTRICT D1 AT BOSTON		0	10650.00	.27

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ACT TOTAL			0	0.00	0.00
ACT FIXED				10650.00	.27
TOTAL FOR THE DIVISION			0	10650.00	.27
-----					
FI NAD					
	N		351	83889.00	69.14
	R		17	4063.00	2.38
ACT TOTAL			368	87952.00	51.52
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT E1 AT BALTIMORE			368	98602.00	51.79
-----					
	N		449	107311.00	62.86
	R		20	4700.00	2.80
ACT TOTAL			469	112011.00	65.66
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT E3 AT NEW YORK			469	122761.00	65.93
-----					
	N		65	10755.00	6.30
ACT TOTAL			65	10755.00	6.30
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT E4 AT NORFOLK			65	21405.00	6.57
-----					
	N		1	239.00	.14
ACT TOTAL			1	239.00	.14
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT E4 AT PHILADELPH			1	10889.00	.41
-----					
	N		846	202194.00	118.44
	R		37	8863.00	5.18
ACT TOTAL			883	211057.00	123.62
ACT FIXED				42600.00	1.09
TOTAL FOR THE DIVISION			883	253657.00	124.71
-----					
FI NCD					
	N		5	1195.00	.70
	R		8	1912.00	1.12
ACT TOTAL			13	3107.00	1.82
ACT FIXED				10650.00	.27
TOTAL FOR DISTRICT F2 AT CHICAGO			13	13757.00	2.09
-----					
	N		5	1195.00	.70
	R		8	1912.00	1.12
ACT TOTAL			13	3107.00	1.82
ACT FIXED				10650.00	.27
TOTAL FOR THE DIVISION			13	13757.00	2.09
-----					

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ACT TOTAL		2	478.00	.28
ACT FIXED		2	10650.00	.27
TOTAL FOR DISTRICT G2 AT PORTLAND		2	11128.00	.55
ACT TOTAL	N	191	45449.00	26.76
ACT FIXED	R	19	4541.00	2.66
TOTAL FOR DISTRICT G3 AT SEATTLE		210	50190.00	29.42
ACT TOTAL		210	10650.00	.27
TOTAL FOR DISTRICT G3 AT SEATTLE		210	60840.00	29.67
ACT TOTAL	N	1	239.00	.14
ACT FIXED		1	239.00	.14
TOTAL FOR DISTRICT G4 AT WALLA WALL		1	10650.00	.27
ACT TOTAL		1	10889.00	.41
ACT TOTAL	N	194	46366.00	27.16
ACT FIXED	R	19	4541.00	2.66
TOTAL FOR THE DIVISION		213	50907.00	29.82
ACT TOTAL		213	31950.00	.82
TOTAL FOR THE DIVISION		213	82857.00	30.64
ACT TOTAL		0	0.00	0.00
ACT FIXED		0	10650.00	.27
TOTAL FOR DISTRICT H1 AT HUNTINGTON		0	10650.00	.27
ACT TOTAL	N	4	956.00	.56
ACT FIXED		4	956.00	.56
TOTAL FOR DISTRICT HP AT LOUISVILLE		4	10650.00	.27
ACT TOTAL		4	11606.00	.83
ACT TOTAL	N	1	239.00	.14
ACT FIXED		1	239.00	.14
TOTAL FOR DISTRICT H3 AT NASHVILLE		1	10650.00	.27
ACT TOTAL		1	10889.00	.41
ACT TOTAL	N	2	478.00	.28
ACT FIXED		2	478.00	.28
TOTAL FOR DISTRICT H4 AT PITTSBURGH		2	10650.00	.27
ACT TOTAL		2	11128.00	.55

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	N	7	1873.00	.98
ACT TOTAL		7	1873.00	.98
ACT FIXED			47600.00	1.09
TOTAL FOR THE DIVISION		7	44273.00	2.07
-----				
PI 54D	R	6	1434.00	.84
ACT TOTAL		6	1434.00	.84
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT K3 AT JACKSONVIL		6	12084.00	1.11
-----				
	N	274	65446.00	38.36
	R	291	69549.00	40.74
ACT TOTAL		565	135035.00	79.10
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT K5 AT MOBILE		565	145685.00	79.37
-----				
	N	139	33221.00	19.46
	R	17	4063.00	2.38
ACT TOTAL		156	37284.00	21.84
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT K6 AT SAVANNAH		156	47934.00	22.11
-----				
	N	413	98707.00	57.82
	R	314	75046.00	43.96
ACT TOTAL		727	173753.00	101.78
ACT FIXED			31950.00	.82
TOTAL FOR THE DIVISION		727	205703.00	102.60
-----				
LI 59D	N	271	64769.00	37.94
	R	26	6214.00	3.64
ACT TOTAL		297	70983.00	41.58
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT L1 AT LOS ANGELE		297	81633.00	41.85
-----				
	N	135	32265.00	18.90
	R	10	2390.00	1.40
ACT TOTAL		145	34655.00	20.30
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT LP AT SACRAMENTO		145	45305.00	20.57
-----				
	N	606	97034.00	56.44
	R	34	8884.00	5.04
ACT TOTAL		640	105938.00	61.48
ACT FIXED			21300.00	.95
TOTAL FOR THE DIVISION		640	126938.00	62.43
-----				

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M1 SWD				
	N	1A	4382.00	2.92
	R	12	2888.00	1.68
ACT TOTAL		-----	-----	-----
ACT FIXED		30	7170.00	4.70
			10650.00	.27
TOTAL FOR DISTRICT M1 AT ALBUQUERQUE		-----	-----	-----
		30	17820.00	4.47
	N	11A	28202.00	16.52
	R	73	17447.00	10.22
ACT TOTAL		-----	-----	-----
ACT FIXED		191	45649.00	26.74
			10650.00	.27
TOTAL FOR DISTRICT M2 AT FT. WORTH		-----	-----	-----
		191	56299.00	27.01
	N	5P	12428.00	7.28
ACT TOTAL		-----	-----	-----
ACT FIXED		52	12428.00	7.28
			10650.00	.27
TOTAL FOR DISTRICT M3 AT GALVESTON		-----	-----	-----
		52	23078.00	7.55
	N	16	3924.00	2.24
	R	13	3107.00	1.82
ACT TOTAL		-----	-----	-----
ACT FIXED		29	6931.00	4.06
			10650.00	.27
TOTAL FOR DISTRICT M4 AT LITTLE ROCK		-----	-----	-----
		29	17581.00	4.33
	N	40	9560.00	5.60
	P	2	478.00	.28
ACT TOTAL		-----	-----	-----
ACT FIXED		42	10038.00	5.88
			10650.00	.27
TOTAL FOR DISTRICT M5 AT TULSA		-----	-----	-----
		42	20688.00	6.15
	N	244	58316.00	34.18
	R	100	23900.00	14.00
ACT TOTAL		-----	-----	-----
ACT FIXED		344	82216.00	48.18
			53250.00	1.37
TOTAL FOR THE DIVISION		-----	-----	-----
		344	135466.00	49.52
COMPLETE TOTAL THIS ASSIGNMENT		-----	-----	-----
		3609	1171401.00	413.10

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THE FOLLOWING DISTRICT WORKLOADS WERE CALCULATED USING  
 ASSIGNMENT TO THE CLOSEST DISTRICT OFFICE

DIVISION	INLEASING TYPE	WORKLOAD (UNITS)	COST (\$)	EFF. MAN/YR
A1 LMVD	N	124	25049.07	17.27
	R	59	14317.22	8.26
ACT TOTAL		183	39366.29	25.53
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT A1 AT VICKSBURG		183	50016.29	25.81

	N	124	25049.07	17.27
	R	59	14317.22	8.26
ACT TOTAL		183	39366.29	25.53
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		183	50016.29	25.81

C1 WRD	N	296	74985.18	41.52
	R	142	36072.40	19.92
ACT TOTAL		438	111057.58	61.44
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT C2 AT OMAHA		438	121707.58	61.72

	N	296	74985.18	41.52
	R	142	36072.40	19.92
ACT TOTAL		438	111057.58	61.44
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		438	121707.58	61.72

D1 NFD	N	209	36727.68	29.02
	R	14	2591.79	1.95
ACT TOTAL		223	39319.46	30.96
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT D1 AT BOSTON		223	49969.46	31.23

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	N	200	36722.60	20.02
	R	14	2591.79	1.95
ACT TOTAL		-----	-----	-----
ACT FIXED		223	39314.60	30.96
			10650.00	.27
TOTAL FOR THE DIVISION		223	49964.60	31.23
-----				
FI NAD				
	N	400	131965.37	60.61
	R	17	4507.93	2.39
ACT TOTAL		-----	-----	-----
ACT FIXED		505	136453.30	71.00
			10650.00	.27
TOTAL FOR DISTRICT F4 AT NEW YORK		505	147103.30	71.27
-----				
	N	400	131965.37	60.61
	R	17	4507.93	2.39
ACT TOTAL		-----	-----	-----
ACT FIXED		505	136453.30	71.00
			10650.00	.27
TOTAL FOR THE DIVISION		505	147103.30	71.27
-----				
FI NCD				
	N	310	31651.75	42.68
	R	140	14909.85	10.20
ACT TOTAL		-----	-----	-----
ACT FIXED		450	46641.60	61.96
			10650.00	.27
TOTAL FOR DISTRICT F4 AT CHICAGO		450	57291.60	62.23
-----				
	N	310	31651.75	42.68
	R	140	14909.85	10.20
ACT TOTAL		-----	-----	-----
ACT FIXED		450	46641.60	61.96
			10650.00	.27
TOTAL FOR THE DIVISION		450	57291.60	62.23
-----				
DI NPD				
	N	211	50512.12	20.50
	R	21	4991.16	2.06
ACT TOTAL		-----	-----	-----
ACT FIXED		232	55503.27	32.52
			10650.00	.27
TOTAL FOR DISTRICT DI AT PORTLAND		232	66153.27	32.79
-----				

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	N	211	50512.12	20.50
	P	21	4991.10	2.94
ACT TOTAL		232	55503.22	32.52
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		232	66153.22	32.79
-----				
MI 0MD		210	28128.47	30.00
	R	36	2037.61	4.92
ACT TOTAL		254	30166.08	35.00
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT MI AT CINCINNATI		254	40816.08	35.27
-----				
	N	210	28128.47	30.00
	R	36	2037.61	4.92
ACT TOTAL		254	30166.08	35.00
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		254	40816.08	35.27
-----				
MI 500		300	77981.29	48.74
	P	281	67113.46	39.31
ACT TOTAL		630	145094.74	88.05
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT MI AT ATLANTA		630	155744.74	88.32
-----				
	N	300	77981.29	48.74
	P	281	67113.46	39.31
ACT TOTAL		630	145094.74	88.05
ACT FIXED			10650.00	.27
TOTAL FOR THE DIVISION		630	155744.74	88.32
-----				
LI SPD		282	89268.00	39.86
	Q	34	12286.93	5.10
ACT TOTAL		318	101554.93	44.95
ACT FIXED			10650.00	.27
TOTAL FOR DISTRICT LI AT SAN FRANCISCO		318	112204.93	45.22
-----				

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	N	202	89268.00	39.04
	R	3A	122266.93	5.10
ACT TOTAL		-----	-----	-----
ACT FIXED		31A	101456.93	44.99
		-----	10650.00	.27
TOTAL FOR THE DIVISION		31A	112206.93	45.22
-----				
MI SWD				
	N	29A	102003.67	42.34
	R	7A	21780.36	10.99
ACT TOTAL		-----	-----	-----
ACT FIXED		37A	123003.01	53.34
		-----	10650.00	.27
TOTAL FOR DISTRICT NY AT DALLAS		37A	134533.01	53.61
-----				
	N	29A	102003.67	42.35
	R	7A	21780.36	10.99
ACT TOTAL		-----	-----	-----
ACT FIXED		37A	123003.01	53.34
		-----	10650.00	.27
TOTAL FOR THE DIVISION		37A	134533.01	53.61
-----				
COMPLETE TOTAL THIS ASSIGNMENT		-----	-----	-----
		3600	038839.00	807.68
COMPLETE TOTAL THIS ASSIGNMENT		-----	-----	-----
		3600	038839.00	807.68

APPENDIX D:

JOB CONTROL CARDS FOR CREATING  
ACTIVITY MASTER FILES

CREATE ACQUISITIONMASTER

PAJ,CM60000,T500,P3,MT1.  
CHARGE,PUAJ,1189043801,RS,I.  
FTN.  
VSN(TAPE1=CK0103)  
REQUEST(TAPE1,MT,HI,NORING,S)  
REQUEST,TAPE2,\*PF.  
LGO.  
CATALOG,TAPE2,ACQMASTER,ID=PUAJ.  
EOR

```
PROGRAM TAPEIN(TAPE1,TAPE2,OUTPUT,TAPE3=OUTPUT)
INTEGER X(9),YR,DIVDIST,DEPT,TEMP,NR,NM,NP
NR=NM=NP=0
5 BUFFERIN(1,0) (X(1),X(9))
IF (UNIT(1))10,20,30
10 YR=SHIFT(X(3),12).AND.MASK(12)
NR=NR+1
IF(YR.NE.2L76 GOTO 5
TEMP=X(1).AND.7777777777777777B
NM=NM+1
DEPT=SHIFT(X(1).AND.MASK(6),-12)
DIVDIST=SHIFT(X(1),6).AND.MASK(12)
X(1)=DIVDIST.OR.DEPT.OR.TEMP
WRITE(2,100) (X(I),I=1,8)
100 FORMAT(8A10)
GOTO 5
30 NP=NP+1
GOTO 5
20 WRITE(3,102)NR,NM,NP
102 FORMAT(* TOTAL RECORDS READ=*,I10,/,I10,
1* RECORDS ARE SUCCESSFULLY WRITTEN IN THE MASTER FILE OF FY '76*
2,/,I10,* RECORDS ARE FAIL DUE TO PARITY ERROR*)
STOP
END
<BOTTOM OF FILE>
E> W RC
RC WRITTEN.
E> QUIT
COMMAND- REWIND,RC
COMMAND- PURGE,W2,CREATEACQUISITIONMASTER,ID=PUAS
PR ID= PUWS PFN=CREATEACQUISITIONMASTER
PR CY= 001 00000003 PRUS $0000.01 /DAY
```

COMMAND- CATALOG,RC,CREATEACQUISITIONMASTER,ID=PWWS  
INITIAL CATALOG  
RP = 030 DAYS  
CT ID= PUWS PFN=CREATEACQUISITIONMASTER  
CT CY= 001 00000003 PRUS \$0000.01 /DAY  
COMMAND- RETURN,W2  
COMMAND- FILES  
LOCAL FILES--

SORTACQUISITIONMASTER:

PAJ,CM100000,T100,P3.  
CHARGE,PUAJ,1189043801,RS,I.  
FTN.  
ATTACH,TAPE1,ACQMASTER,ID=PUAJ  
REQUEST(TAPE5,\*PF)  
LIBRARY(COBOL)  
RFL,100000.  
LGO.  
REDUCE.  
CATALOG,TAPE5, AMS6,ID=PUAJ  
\*EOR  
PROGRAM SORT(TAPE1,TAPE5,OUTPUT,TAPE7=OUTPUT)  
CALL SMSORT(80)  
CALL SMFILE("SORT","CODED",1,"REWIND")  
CALL SMFILE("OUTPUT","CODED",5,"REWIND")  
CALL SMKEY(1,1,8,0,"DISPLAY","DISPLAY","A")  
CALL SMEND  
WRITE(7,100)  
100 FORMAT(\*1NORMAL COMPLETION\*)  
STOP  
END

SORTACQUISITIONLATLONG:

PAJ,CM100000,T100,P3.  
CHARGE,PUAJ,1189043801,RS,I.  
FTN.  
ATTACH,TAPE1,ALLS,ID=PUAJ.  
REQUEST(TAPE5,\*PF)  
LIBRARY(COBOL)  
RFL,100000.  
LGO.  
REDUCE.  
CATALOG,TAPE5,ALLS,ID=PUAJ  
\*EOR

```
PROGRAM SORT(TAPE1,TAPE5,OUTPUT,TAPE7=OUTPUT)
CALL SMSORT(22)
CALL SMFILE("SORT","CODED",1,"REWIND")
CALL SMFILE("OUTPUT",CODED",5,"REWIND")
CALL SMKEY(1,1,8,0,"DISPLAY", "DISPLAY", "A")
CALL SMEND
100 FORMAT(*NORMAL COMPLETION*)
WRITE(7,100)
STOP
END
```

## DISPOSAL TAPETODISK

PWSCM, CM50000, T300, MT1, P4.  
 CHARGE, PUAJ, 1189043801.  
 FTN.

POLIN X333

VSN(TAPE1=CK1266/CK1267)

COMMENT, TWO TAPE REELS IN THIS FILE  
 REQUEST, TAPE1, MT, HI, NORING, S. TWO TAPE REELS IN  
 COMMENT. THIS FILE. TWO TAPE REELS IN THIS FILE  
 REQUEST, TAPE4, \*PF.  
 REQUEST, TAPE2, \*PF  
 LGO.

CATALOG, TAPE2, DISPOSALDISKFILE, ID=PUAJ, AC=1189043801.

PROGRAM CITY(TAPE1, TAPE2=4097/216, OUTPUT, TAPE3=OUTPUT)  
 INTEGER X(22), COUNT1, COUNT2

WRITE(3, 305)

305 FORMAT(\*1\*, T50, \*DISPOSALS RECORD FORMATION PROGRAM\*)  
 COUNT1=0  
 COUNT2=0

5 BUFFERIN (1,0) (X(1), X(22))  
 IF (UNIT(1)) 10, 20, 30

10 CONTINUE

306 WRITE(2, 306) (X(I), I=1, 22)  
 FORMAT(21A10, A6)  
 COUNT1=COUNT1+1  
 GOTO 5

20 WRITE(3, 300) COUNT1, COUNT2

GOTO 21

CONTINUE

COUNT2=COUNT2+1

GOTO 5

21 WRITE(3, 304) COUNT1, COUNT2

STOP

300 FORMAT(1X, \*EOF ENCOUNTERED\*, /, 1X, I6, \* RECORDS READ SUCCESSFULLY\*,  
 1/, 1X, I6, \* TOTAL RECORDS (INCLUDING ERRORS\*)

304 FORMAT(1X, \*PROG TERMINATED\*, /, 1X, I6, \* RECORDS READ SUCCESSFULLY\*,  
 1/, 1X, I6, \* PARITY ERRORS\*)

END

000010  
 000110  
 000210  
 000310  
 000410  
 000510  
 000610  
 000710  
 000810  
 000910  
 001010  
 001310  
 001410  
 001510  
 001610  
 001710  
 001810  
 001910  
 002110  
 002120  
 002210  
 002310  
 002410  
 002610  
 002710  
 002810  
 002910  
 003010  
 003110  
 003210  
 003510  
 003610  
 003710  
 004010  
 004110  
 004210

CREATEDISPOSALMASTER

PWSCM, CM75000, T600, MT1, P2.  
CHARGE, PUAJ, 1189043801.

POLIN X333

FTN, OPT=2.

ATTACH, TAPE1, DISPOSALDISKFILE, ID=PUAJ, AC=1189043801.  
REQUEST, TAPE2, \*PF.  
LG0.

CATALOG, TAPE2, DISPOSALMASTER, ID=PUAJ, AC=1189043801.

PROGRAM CITY (TAPE1=216/4097, TAPE2, OUTPUT, TAPE3=OUTPUT)  
INTEGER IDATE (3), COUNT, COUNT1, STATES(52), IM(3), ID(3), IY(3), COUNTW  
COUNT=COUNT1=NOUNITS=N076=0

STATES(1)=10HALABAMA  
STATES(2)=10HALASKA  
STATES(3)=10HARIZONA  
STATES(4)=10HARKANSAS  
STATES(5)=10HCALIFORNIA  
STATES(6)=10HCOLORADO  
STATES(7)=10HCONNECTICU  
STATES(8)=10HDELAWARE  
STATES(9)=10HDIST OF CO  
STATES(10)=10HFLORIDA  
STATES(11)=10HGEORGIA  
STATES(12)=10HHAWAII  
STATES(13)=10HIDAHO  
STATES(14)=10HILLINOIS  
STATES(15)=10HINDIANA  
STATES(16)=10HIOWA  
STATES(17)=10HKANSAS  
STATES(18)=10HKENTUCKY  
STATES(19)=10HLOUISIANA  
STATES(20)=10HMAINE  
STATES(21)=10HMARYLAND  
STATES(22)=10HMASS.

000010  
000020  
000030  
000040  
000060  
000070  
000080  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000300  
000310  
000320  
000330  
000340  
000350

STATES (23) = 10HMICHIGAN  
STATES (24) = 10HMMINNESOTA  
STATES (25) = 10HMMISSISSIPP  
STATES (26) = 10HMMISSOURI  
STATES (27) = 10HMONTANA  
STATES (28) = 10HNEBRASK  
STATES (29) = 10HNEVADA  
STATES (30) = 10HNEW HAMP.  
STATES (31) = 10HNEW JERSEY  
STATES (32) = 10HNEW MEXICO  
STATES (33) = 10HNEW YORK  
STATES (34) = 10HN. CAROLIN

000360  
000370  
000380  
000390  
000400  
000410  
000420  
000430  
000440  
000450  
000460  
000470

SORTDISPOSALMASTER

```
PWSCM,CM75000,T75,P4.  
CHARGE,PUAJ,1189043801,RS,I.  
FTN.  
ATTACH,TAPE1,DISPOSALMASTER,ID=PUAJ.  
REQUEST(TAPE2,*PF)  
LIBRARY(COBOL)  
RFL,75000.  
LGO.  
REDUCE.  
CATALOG,TAPE2,DISPOSALMASTERSORTED,ID=PUAJ.  
PROGRAM ONEFILE(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)  
CALL SMSORT (37)  
CALL SMFILE("SORT","CODED",1,"REWIND")  
CALL SMFILE("OUTPUT","CODED",2,"REWIND")  
CALL SMKEY(1,1,25,0,"DISPLAY","DISPLAY","A")  
CALL SMEND  
5 WRITE(6,100)  
100 FORMAT(*INFORMAL COMPLETION*)  
STOP  
END
```

000010  
000020  
000030  
000040  
000050  
000060  
000070  
000080  
000090  
000100  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210

SORTDISPOSALLATLONG

```

PWSCM,CW75000,T75,P4.
CHARGE,PUMS,1189056946,RS,I.
FTN.
ATTACH,TAPE1,DLATLONGCARDS,ID=PUMS.
REQUEST(TAPE2,*PF)
REQUEST(TAPE3,*PF)
LIBRARY (COBOL)
RFL,75000.
LGO.
REDUCE.
CATALOG,TAPE2,DLATLONGCARDSSORTED,ID=PUMS.
PROGRAM ONEFILE(TAPE1,TAPE2,TAPE3,OUTPUT,TAPE6=OUTPUT)
C READ FROM TAPE 1, REFORMAT TO TAPE 3, AND SORT TO TAPE2
1 CONTINUE
  READ(1,88) ICITY1,ICITY2,ISTATE,LD,LM,LLD,LLM
  IF (EOF(1)),20,2
2 WRITE(3,98)ICITY1,ICITY2,ISTATE,LD,LM,LLD,LLM
99 FORMAT(A10,A5,4X,A10,10X,2I2,I3,I2)
98 FORMAT (A10,A5,A10,2I2,I3,I2)
  GOTO 1
20 CONTINUE
  REWIND 3
  CALL SMSORT (34)
  CALL SMFILE("SORT","CODED",3,"REWIND")
  CALL SMFILE("OUTPUT","CODED",2,"REWIND")
  CALL SMKEY(1,1,25,0,"DISPLAY","DISPLAY","A")
  CALL SMEND
5 WRITE(6,100)
100 FORMAT(*NORMAL COMPLETION*)
  STOP
  END

```

000100  
000110  
000120  
000130  
000170  
000175  
000180  
000190  
000200  
000210  
000240  
000255  
000260  
000265  
000270  
000272  
000275  
000280  
000285  
000290  
000295  
000300  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

CREATEINLEASMASTER

PWSCM,CM75000,T100,P4,MT1.  
CHARGE,PUAJ,1189043801.

FTN,OPT=2.

REQUEST(TAPE2,\*PF)

REQUEST(TAPE4,\*PF)

VSN(TAPE1=CK1265)

REQUEST,TAPE1,MT,HI,NORING,S.

LGO.

CATALOG,TAPE2,INLEASMASTER,ID=PUAJ,AC-1189043801.

CATALOG,TAPE4,INOMATCH,ID=PUAJ,AC=1189043801.

PROGRAM INGO (TAPE2,TAPE3,INPUT,OUTPUT,TAPE1,TAPE5=INPUT,

\*TAPE6=OUTPUT,TAPE4)

INTEGER X(20),PARITY,ICOUNT,IOCONUS,BADCODE,ACODES(37),

\*ICODES(37)

DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXR0,4LOXT0,

\*4LO7Y0,

\*4LOXU0,4LOXW0,4LOXW1,4LOXZ0,4LOX00,4LO700,4L0701,4L2SK0,

\*4LOYA0,

\*4LOYB0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SNO,4LOY70,

\*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYN0,4LOYQ0,4LOYR0,

\*4LOYT0,

\*4LOYU0,4LOYV0,4LOYZ0,4LOY10/

DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,

\*2HE1,

\*2HE3,2HZZ,2HE4,2HE5,2HF2,2HZZ,

\*2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HK3,2HZZ,

\*2HK5,2HZZ,2HZZ,2HK6,2HL1,2HL2,

\*2HM1,2HM2,2HM3,2HM4,2HM5/

WRITE(3,108)

108 FORMAT(\*IRECORDS OUTSIDE THE CONTINENTAL U.S.\*)

ICOUNT=IOCONUS=BADCODE=PARITY=0

WRITE(4,109)

109 FORMAT(\*IRECORDS WITH UNMATCHED CODES\*)

IJK=INRTC=IN=IR=IT=IB=IZ=0

000010  
000020  
000030  
000040  
000055  
000060  
000070  
000080  
000090  
000100  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000298  
000299  
000300  
000301  
000302  
000310

000320  
000330  
000340  
000350  
000360  
000370  
000380  
000390  
000400

000100  
000110  
000120  
000130  
000160  
000180  
000190  
000200  
000210  
000230  
000255  
000310  
000320  
000330  
000335  
000340  
000350  
000415  
000417  
000420  
000430

9 CONTINUE  
BUFFERIN (1,0) (X(1),X(20))  
IF (UNIT(1)) 10,20,30  
10 CONTINUE  
IJK=IJK+1  
IF(IJK.GT.100) GOTO 20  
IYR=SHIFT(X(13),42).AND.MASK(12)  
IF(IYR.NE.2L76) GOTO 9  
INRT=SHIFT(X(13).36).AND.MASK(6)

SORTINLEASMASTER

PWSCM,CM100000,T75,P4.  
CHARGE,PUAJ,1139043801,RS,I.  
FTN,OPT=2.  
ATTACH,TAPE1,IMS6,ID=PUAJ.  
REQUEST(TAPE5,\*PF)  
LIBRARY(COBOL)  
RFL,100000.  
LGO.  
REDUCE.  
CATALOG,TAPE5,IMS6,ID=PUAJ.  
PROGRAM SORT(TAPE1,TAPE5,OUTPUT,TAPE7=OUTPUT)  
CALL SMSORT(43)  
CALL SMFILE("SORT","CODED",1,"REWIND")  
CALL SMFILE("OUTPUT","CODED",5,"REWIND")  
CALL SMKEY(1,1,17,0,"DISPLAY","DISPLAY","A")  
CALL SMKEY(29,1,1,0,"DISPLAY","DISPLAY","A")  
CALL SMEND  
5 WRITE(7,100)  
100 FORMAT(\*INORMAL COMPLETION\*)  
STOP  
END

CRUNCH I

PAJ, CM 60000, T20, P4.  
CHARGE, PUAJ, 1189043801, RS.1.  
REQUEST, TAPE1, \*PF.  
ATTACH, TAPES, IMS TR, (or INLEASEMASTERSORTED) ID=PUAJ.  
FIN.  
LGO

CATALOG, TAPE1, IMS YR, ID=PUAJ  
PROGRAM CRUNCH(TAPE1,TAPES,OUTPUT,TAPE9=OUTPUT)  
INTEGER M1,M2,I1,I2,COUNT,IDD,INR,MDD,MNR,IUNIT  
READ(5,202)M1,M2,MDD,MNR

I1=M1

I2=M2

IDD=MDD

INR=MNR

IUNIT=1

COUNT=1

5 READ(5,202)M1,M2,MDD,MNR

IF (EOF (5).NE.0)GOTO 80

COUNT=COUNT+1

IF (MNR.NE. INR)GOTO 10

IF (M1-I1) 10,20,10

IF (M2-I2) 10,60,10

60 IUNIT=IUNIT+1

GOTO 5

10 WRITE(1,240)I1,I2,IDD,INR,IUNIT

I1=M1

I2=M2

INR=MNR

IDD=MDD

IUNIT=1

GOTO 5

202 FORMAT(R9,R8,9X,A2,A1)

240 FORMAT(R9,R8,9X,A2,A1,I5)

000100  
000110  
000120  
000130  
000140  
000171  
000172  
000173  
000174  
000180  
000190  
000200  
000205  
000210  
000220  
000260  
000270  
000280  
000290  
000300  
000320  
000340  
000360  
000370  
000380  
000390

000400  
000410  
000420  
000430

80 WRITE(9,250)COUNT  
250 FORMAT(\*EXECUTION COMPLETE;TOTAL RECORD READ=\*I10)  
STOP  
END

UTILIZATIONTAPETODISK

PWSCM,CM60000,T500,P3,MT1.  
 CHARGE,PUMS,1189056946.

FTN,OPT=2,R=2.

VSN(TAPE1=CK1265)

REQUEST,TAPE1,MT,HI,NORING,S.

REQUEST(TAPE2,\*PF)

LGO.

CATALOG,TAPE2,UTILIZATIONFILE,ID=PUMS,AC=1189056946.

PROGRAM INTR(TAPE1=/200,TAPE2=/200,OUTPUT,TAPE3=OUTPUT)

INTEGER COUNT1,COUNT2,X(20),COUNTR

WRITE(3,305)

FORMAT(\*1\*,T50,\*TRANSFER OF UTILIZATION TAPE\*)

COUNT1=COUNT2=COUNTR=0

5 BUFFERIN(1.0) (X(1),X(20))

IF (UNIT(1)) 10,20,30

10 CONTINUE

COUNTR=COUNTR+1

C IF (COUNTR.GE.250) GOTO 21

IEFF=SHIFT(X(12),-24).AND.777777777777B

ITEM=SHIFT(X(12),12).AND.7777777770000B

ITEMP=SHIFT(X(13),12).AND.7777B

ITEM=ITEM.OR.ITEMP

IF(IEFF.GT.6R760630) GOTO 5

IF(ITEM.EQ.6RINDEF) GOTO 11

IF(ITEM.LT.IEFF) GOTO 11

IF(ITEM.LT.6R750701) GOTO 5

11 CONTINUE

WRITE(2,100) (X(I),I=1,20)

FORMAT(20A10)

COUNT1=COUNT1+1

C IF (COUNT1.GE.250) GOTO 21

GOTO 5

000010  
 000020  
 000030  
 000040  
 000050  
 000060  
 000070  
 000080  
 000100  
 000110  
 000120  
 000130  
 000140  
 000160  
 000170  
 000180  
 000185  
 000186  
 000187  
 000188  
 000189  
 000190  
 000191  
 000192  
 000193  
 000194  
 000195  
 000200  
 000210  
 000220  
 000230  
 000240

```
20 WRITE(3,300) COUNTR,COUNT2,COUNT1
   STOP
30 WRITE(3,301) COUNT2,COUNT1
   COUNT2=COUNT2+1
   GOTO 5
21 WRITE(3,304) COUNTR, COUNT2,COUNT1
   STOP
300 FORMAT(1X,*EOF ENCOUNTERED*,/,1X,I6,* RECORDS READ SUCCESSFULLY*,
1/,1X,I6,* PARITY ERRORS*/
2//,1X,I6,* RECORDS WRITTEN *)
301 FORMAT (1X,*PARITY ERROR NUMBER*,I6,/,1X,I6,
```

```
000250
000260
000270
000280
000290
000300
000310
000320
000330
000335
000340
```

SORTUTILIZATIONFILE

PWSCM,CM100000,T75,P4.  
CHARGE,PUMS,1189056946,RS,I.  
FTN,OPT=2.  
ATTACH,TAPE1,UTILIZATIONFILE,ID=PUMS.  
REQUEST(TAPE5,\*PF)  
LIBRARY(COBOL)  
RFL,100000.  
LGO.  
REDUCE.  
CATALOG,TAPE5,UTILIZATIONFILESORTED,ID=PUMS.  
PROGRAM SORT(TAPE1=/200,TAPE5=/200,OUTPUT,TAPE7=OUTPUT)  
CALL SMSORT(200)  
CALL SMFILE("SORT","CODED",1,"REWIND")  
CALL SMFILE("OUTPUT","CODED",5,"REWIND")  
CALL SMKFY(14,1,16,0,"DISPLAY","DISPLAY","A")  
CALL SMKFY(2,1,1,0,"DISPLAY","DISPLAY","A")  
CALL SMKFY(4,1,10,0,"DISPLAY","DISPLAY","A")  
CALL SMEND  
5 WRITE(7,100)  
100 FORMAT(\*1NORMAL COMPLETION\*)  
STOP  
END

000100  
000110  
000120  
000130  
000160  
000180  
000190  
000200  
000210  
000230  
000255  
000310  
000320  
000330  
000340  
000342  
000344  
000350  
000415  
000417  
000420  
000430

CREATEUTILIZATIONMASTER

PWSCM,CM75000,T100,P4,MT1.  
CHARGE,PUWS,1189056946.

FTN,OPT=2.

REQUEST(TAPE2,\*PF)

ATTACH,TAPE1,UTILIZATIONFILESORTED, ID=PUWS.

LGO.

CATALOG,TAPE2,UTILIZATIONMASTER76, ID=PUWS,AC-1189056946.

PROGRAM INGO(TAPE2,TAPE3,INPUT,OUTPUT,TAPE1=/200,TAPE5=INPUT,

\*TAPE6=OUTPUT,TAPE4)

INTEGER X(20),PARITY,ICOUNT,IOCONUS,BADCODE,ACODES(38),

\*ICODES(38)

DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXR0,4LOXT0,

\*4L07Y0,

\*4LOXU0,4LOXW0,4LOXW1,4LOXZ0,4LOX00,4LO700,4L0701,4L2SK0,

\*4LOYA0,

\*4LOYR0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SNO,4LOY70,

\*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYNO,4LOYO0,4LOYR0,

\*4LOYT0,

\*4LOYU0,4LOYV0,4LOYZ0,4LOY10,4LOX60/

DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,

\*2HF1,

\*2HF3,2HZZ,2HE4,2HE5,2HF2,2HZZ

\*2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HK3,2HZZ,

\*2HK5,2HZZ,2HZZ,2HK6,2HL1,2HL2,

\*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/

IJK=0

LASTCON=LASTC02=LASTIDD=0

COUNTH=BADCODE=COUNTR=0

CONTINUE

READ(1,100) IDD,ICON,ICON2,ISC,ICITY1,ICITY2

FORMAT(5X,A4,4X,2R8,3X,A2,24X,A8,A7)

000100  
000110  
000120  
000130  
000140  
000150  
000160  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000300  
000310  
000320  
000330  
000340  
000350  
000360  
000370  
000380  
000390  
000400  
000410

```
10 IF(EOF(1)) 20,10
   CONTINUE
   COUNTR=COUNTR+1
   IDD=IDD.AND.7777777700 000000000000B
   IJK=IJK+1
   IF(IJK.GT.100) GOTO 20
   IF(ICON-LASTCON) 16,11,16
   IF(ICON2-LASTC02) 16,12,16
   IF(IDD-LASTIDD) 16,9,16
   CONTINUE
   DO 99 I=1,38
   IF(ICODES(I).EQ.IDD) GOTO 13
   CONTINUE
```

```
000420
000430
000440
000450
000460
000470
000480
000490
000500
000510
000520
000530
000540
```

SORTUTILIZATIONMASTER

PMSCM, CM10000, T75, P3.  
CHARGE, PUWS, 1189056946, RS, I.  
FTN, OPT=2.

ATTACH, TAPE1, UTILIZATIONMASTER76, ID=PUWS.

REQUEST(TAPE5, \*PF)

LIBRARY(COBOL)

RFL, 100000.

LGO.

REDUCE.

CATALOG, TAPE5, UTILIZATIONMASTER76SORTED, ID=PUWS.

PROGRAM SORT(TAPE1, TAPE3, TAPE5, TAPE6, OUTPUT, TAPE7=OUTPUT)

CALL SMSORT(28)

CALL SMFILE("SORT", "CODED", 1, "REWIND")

CALL SMFILE("OUTPUT", "CODED", 5, "REWIND")

CALL SMKEY(1, 1, 17, 0, "DISPLAY", "DISPLAY", "A")

CALL SMEND

WRITE(7, 100)

FORMAT(\*1NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000160  
000180  
000190  
000200  
000210  
000230  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

CRUNCHU

PAJ,CM60000,I20,P4.  
CHARGE,PUAJ,1189043801,RS,1.  
FTN.

REQUEST,TAPE1,\*PF.  
ATTACH,TAPE5,UTILIZATIONMASTERSORTED,ID=PUAJ.  
LGO.

CATALOG,TAPE1,JMS YR,ID=PUAJ

PROGRAM CRUNCH(TAPE1,TAPE5,OUTPUT,TAPE9=OUTPUT)

INTEGER M1,M2,I1,I2,COUNT,IDD,MDD,IUNIT

READ(5,202)M1,M2,MDD

I1=M1

I2=M2

IDD=MDD

IUNIT=1

COUNT=1

5 READ(5,202)M1,M2,MDD  
IF(EOF(5).NF.0) GOTO 80

COUNT=COUNT+1

IF(M1-I1) 10,20,10

20 IF(M2-I2) 10,60,10

60 IUNIT=IUNIT+1

GOTO 5

10 WRITE(1,240)I1,I2,IDD,IUNIT

I1=M1

I2=M2

IDD=MDD

IUNIT=1

GOTO 5

202 FORMAT(R9,R8,9X,A2)

240 FORMAT(R9,R8,9X,A2,I5)

80 WRITE(9,250)COUNT

250 FORMAT(\*EXECUTION COMPLETE;TOTAL RECORD READ=\*,I10)

STOP

END

000100  
000110  
000120  
000130  
000140  
000171  
000173  
000174  
000180  
000190  
000200  
000210  
000220  
000260  
000270  
000280  
000290  
000300  
000340  
000360  
000370  
000380  
000390  
000400  
000410  
000420  
000430

COMPLIANCE TAPETODISK

POLIN X333

PWSCM, CM60000, T700, MT1.  
 CHARGE, PUWS, 1189056946.

FTN. OPT=2, R-2.

VSN(TAPE1=CK1268)

REQUEST, TAPE1, MT. HI, NORING, S.

REQUEST, TAPE5, \*PF.

LGO.

CATALOG, TAPE5, COMPLIANCEFILE, ID=PUWS.

PROGRAM CITY(TAPE1, OUTPUT, TAPE3=OUTPUT, TAPE5)

INTEGER Z(64,2), COUNTR, COUNTW, PARITY

WRITE(3,305)

305 FORMAT(\*1\*, T50, \* COMPLIANCE TAPE TO DISK\*)

COUNTR=0

COUNTW=0

5 BUFFERIN(1,0) (Z(1,1), Z(64,2))

IF (UNIT(1)) 10,20,30

10 CONTINUE

COUNTR=COUNTR+1

WRITE(5,1) ((Z(I,J), I=1,13), (Z(I,J), I=13,26).

\*(Z(I,J), I=26,39), (7(I,J), I=39,52), (Z(I,J), I=52,64).

\*J=1,2)

1 FORMAT(12A10, A8/, R2, 12A10, A6/, R4, 12A10, A4/,

\*R6, 12A10, A2/, R8, 12A10/, 12A10, A8/

\*R2, 12A10, A6/, R4, 12A10, A4/, R6, 12A10, A2/P8, 12A10)

COUNTW=COUNTW+1

GOTO 5

20 WRITE(3,300) COUNTR, PARITY, COUNTW

GOTO 31

30 CONTINUE

PARITY=PARTY+1

WRITE(3,301) COUNTR, PARITY

GOTO 5

000010  
 000020  
 000030  
 000040  
 000050  
 000060  
 000070  
 000075  
 000090  
 000100  
 000110  
 000120  
 000130  
 000140  
 000150  
 000160  
 000165  
 000166  
 000170  
 000180  
 000190  
 000200  
 000210  
 000220  
 000225  
 000260  
 000270  
 000280  
 000285  
 000287  
 000290  
 000300

```
31 CONTINUE
STOP
300 FORMAT(1X,*EOF ENCOUNTERED*,/,1X,I6,* RECORDS READ SUCCESSFULLY*,
1/,1X,I6,* PARITY ERRORS*/
2/,1X,I6,* RECORDS WRITTEN*)
301 FORMAT(1X,*PARITY ERROR RECORD*,I6,/,1X,I6.
1* PARITY ERRORS SO FAR*)
END
```

```
000310
000320
000470
000480
000485
000490
000500
000560
```

CREATCOMPLIANCEMASTER

PWSCM,CW75000,T700,P4.  
 CHARGE,PUAJ,1189043801.  
 FTN,OPT=2.  
 REQUEST(TAPE2,\*PF)  
 ATTACH,TAPE1,COMPLIANCEFILE,ID=PUAJ.  
 LGO.  
 CATALOG,TAPE2,COMPLIANCEMASTER,ID=PUAJ,AC=1189043801.  
 PROGRAM INGO(TAPE2,TAPE3,INPUT,OUTPUT,TAPE1,TAPE5=INPUT,  
 \*TAPE6=OUTPUT)  
 INTEGER PARITY,ICOUNT,IOCONUS,BADCODE,ACODES(38),  
 \*ICODES(38)  
 DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXR0,4LOXT0,  
 \*4LO7Y0,  
 \*4LOXU0,4LOXW0,4LOXW1,4LOXZ0,4LOX00,4LO700,4LO701,4L2SK0,  
 \*4LOYA0,  
 \*4LOYR0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SN0,4LOY70,  
 \*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYM0,4LOYR0,4LOYR0,  
 \*4LOYT0,  
 \*4LOYU0,4LOYV0,4LOYZ0,4LOY10,4LOX60/  
 DATAACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,  
 \*2HF1,  
 \*2HF3,2HZZ,2HE4,2HE5,2HF2,2HZZ  
 \* ,2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HZZ,2HK3,2HZZ,  
 \*2HK5,2HZZ,2HZZ,2HK6,2HL1,2HL2,  
 \*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/  
 ICOUNT=BADCODE=PARITY=0  
 IJK=0  
 9 CONTINUE  
 READ(1,100) IDD1,IFY,ISC,IEFF,ITERM,ISTATE,INSTAL1,INSTAL2,INSTAL3  
 1.,INSTAL4,IDD2  
 100 FORMAT(1X,R4,31X,R2,6X,R2,1X,R6,R6,16X,R6,2X,3A10,A3,3X,R2)  
 IF(EOF(1)) 20,10  
 000010  
 000020  
 000030  
 000040  
 000060  
 000070  
 000080  
 000110  
 000120  
 000130  
 000140  
 000150  
 000160  
 000170  
 000180  
 000190  
 000200  
 000210  
 000220  
 000230  
 000240  
 000250  
 000260  
 000270  
 000280  
 000290  
 000320  
 000330  
 000340  
 000350  
 000360  
 000370

000380  
000390  
000395  
000400  
000410  
000420  
000430  
000440  
000450  
000460  
000470

```
10 CONTINUE  
   IJK=IJK+1  
   IDD1=SHIFT( IDD1,36)  
   IF( IJK.GT.250) GOTO 20  
   IF( IEFF.GT.6R750630) GOTO 9  
   IF( ITERM.EQ.6RINDEF ) GOTO 3  
   IF( IEFF.LT. ITERM.AND. ITERM.LT.6R740701) GOTO 9  
3   CONTINUE  
   DO 12 I=1,38  
   IF ( ICODES(I).EQ.IDD1) GOTO 13  
12 CONTINUE
```

```

PWSCM,CW75000,T700,P4.
CHARGE,PUAJ,1189043801.
FTN,OPT=2.
REQUEST(TAPE2,*PF)
ATTACH,TAPE1,OUTGRANTFILE IF OUTGRANTFILE HAS BEEN CREATED HERE, WE MAY USE IT
*76,ID=PUAJ
LGO.
CATALOG,TAPE2,COMPLIANCEMASTER76,ID=PUAJ,AC=1189043801.
PROGRAM INGO(TAPE2,TAPE3,INPUT,OUTPUT,TAPE1,TAPE5=INPUT,
*TAPE6=OUTPUT)
INTEGER PARITY, ICOUNT, ICONUS, BADCODE,ACODES(38),
*ICODES(38)
DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXR0,4LOXT0,
*4L07Y0,
*4LOXU0,4LOXW0,4LOXW1,4LOXZ0,4LOX00,4LO700,4L0701,4L2SK0,
*4LOYA0,
*4LOYB0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SNO,4LOY70,
*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYNO,4LOYQ0,4LOYR0,
*4LOYT0,
*4LOYU0,4LOYV0,4LOYZ0,4LOY10,4LOX60/
DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,
*2HF1,
*2HF3,2HZ,2HE4,2HE5,2HF2,2HZ
*2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZ,2HZ,2HK3,2HZ,
*2HK5,2HZ,2HZ,2HK6,2HL1,2HL2,
*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/
ICOUNT=BADCODE=PARITY=0
IJK=0
9 CONTINUE
READ(1,100) IDD1,IFY,ISC,IEFF,ITERM,ISTATE,INSTAL1,INSTAL2,INSTAL3
1,INSTAL4,IDD2
100 FORMAT(1X,R4,31X,R2,6X,R2,1X,R6,R6,16X,R6,2X,3A10,A3,3X,R2)
IF(EOF(1)) 20,10
10 CONTINUE
000010
000020
000030
000040
000060
000070
000080
000110
000120
000130
000140
000150
000160
000170
000180
000190
000200
000210
000220
000230
000240
000250
000260
000270
000280
000290
000320
000330
000340
000350
000360
000370
000380

```

```
C      IJK=IJK+1  
      IDDI=SHIFT(IDDI,36)  
      IF(IJK.GT.250) GOTO 20  
      GOTO 9  
      IF (ITERM.EQ.6RINDEF ) GOTO 3  
      IF(IFFF.LT.ITERM.AND.ITEM.LT.6R750701) GOTO 9  
      CONTINUE  
      DO 12 I=1,38  
      IF (ICODES(I).EQ.IDDI) GOTO 13
```

```
000390  
000395  
000400  
000410  
000420  
000430  
000460  
000490  
000500
```

SORTCOMPLIANCEMASTER

PWSCM,CM100000,T100,P4.  
CHARGE,PUAJ,1189043801,RS,I,

FTN.

ATTACH,TAPE1,COMPLIANCEMASTER76,ID=PUAJ.

REQUEST(TAPE2,\*PF)

LIBRARY(COBOL)

RFL,100000

LGO.

REDUCE.

CATALOG,TAPE2,CMS6,ID=PUACJ.

PROGRAM ONEFILE(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)

CALL SMSORT(43)

CALL SMFILE("SORT","CODED",1,"REWIND")

CALL SMFILE("OUTPUT","CODED",2,"REWIND")

CALL SMKFY(1,1,43,0,"DISPLAY",DISPLAY,"A")

CALL SMEND

WRITE(6,100)

FORMAT(\*NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000170  
000180  
000190  
000200  
000210  
000240  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

OUTGRANTTAPETODISK

POLIN X333

PWSCM,CM60000,T700,MT1.  
CHARGE,PUAJ,1189043801  
FTN,OPT=2.  
VSN(TAPE1=CK1268)  
REQUEST,TAPE1,MT,HI,NORING,S.  
REQUEST,TAPE5,\*PF.  
LGO.

CATALOG,TAPE5,OUTGRANTFILE76,ID=PUAJ.

PROGRAM CITY(TAPE1,OUTPUT,TAPE3=OUTPUT,TAPE5)

INTEGER Z(64,2),COUNT1,COUNT2

WRITE(3,305)

305 FORMAT(\*1\*,T50,\*OUTGRANT TAPE TO DISK\*)

COUNT1=0

COUNT2=0

5 BUFFERIN (1,0) (Z(1,1),Z(64,2))

IF (UNIT(1)), 10,20,30

10 WRITE(5,1) ((Z(I,J),I=1,13),(Z(I,J),I=13,26),

\*(Z(I,J),I=26,39),(Z(I,J),I=39,52),(Z(I,J),I=52,64),

\*J=1,2)

1 FORMAT(12A10,A8/,R2,12A10,A6/,R4,12A10,A4/,

\*R6,12A10,A2/,R8,12A10/,12A10,A8/

\*R2,12A10,A6/,R4,12A10,A4/,R6,12A10,A2/R8,12A10)

COUNT1=COUNT1+1

COUNT2=COUNT2+1

GOTO 5

20 WRITE(3,300) COUNT1,COUNT2

GOTO 31

30 WRITE(3,301) COUNT1,COUNT2

GOTO 5

31 CONTINUE

STOP

000010  
000020  
000030  
000040  
000050  
000060  
000070  
000075  
000090  
000100  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000260  
000270  
000280  
000290  
000300  
000310  
000460

```
300  FORMAT(1X,*EOF ENCOUNTERED*,/,1X,16,* RECORDS READ SUCCESSFULLY*,
1/,1X,16,* TOTAL RECORDS (INCLUDING ERRORS*)
301  FORMAT(1X,*PARITY ERROR RECORD*,16,/,1X,16,
1* RECORDS HAVE BEEN READ SUCCESSFULLY*)
304  FORMAT(1X,*PROG TERMINATED*,/,1X,16,* RECORDS READ SUCCESSFULLY*,
1/,1X,16,* TOTAL RECORDS (INCLUDING ERRORS*)
      END
```

```
000470
000480
000490
000500
000510
000520
000560
```

```

CREATEOUTGRANTMASTER
PWSCM,CM75000,T300,P4.
CHARGE,PUAJ,1189043801.
FTN,OPT=2.
REQUEST(TAPE2,*PF)
ATTACH,TAPE1,OUTGRANTFILE76,ID=PUAJ.
LGO.
CATALOG,TAPE2,OUTGRANTMASTER76,ID=PUAJ,AC=1189043801.
PROGRAM INGO(TAPE2,TAPE3,INPUT,OUTPUT,TAPE1,TAPE5=INPUT,
*TAPE6=OUTPUT)
INTEGER PARITY, ICOUNT,IOCONUS,BADCODE,ACODES(38),
*ICODES(38)
DATA ICODES /4LOXJ0,4LOXK0,4LOXL0,4LOXP0,4LOXR0,4LOXT0,
*4L07Y0,
*4LOXU0,4LOXM0,4LOXM1,4LOXZ0,4LOX00,4L0700,4L0701,4L2SK0,
*4LOYA0,
*4LOYB0,4LOYC0,4LOYD0,4LOYE0,4LOYF0,4LOYJ0,4L2SN0,4LOY70,
*4LOYL0,4LOYL3,4LOYM0,4LOYM1,4LOYM2,4LOYM0,4LOYQ0,4LOYR0,
*4LOYT0,
*4LOYU0,4LOYV0,4LOYZ0,4LOY10,4LOX60/
DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,
*2HE1,
*2HE3,2HZZ,2HE4,2HE5,2HF2,2HZZ
*2HG1,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HKK3,2HZZ,
*2HK5,2HZZ,2HZZ,2HK6,2HL1,2HL2,
*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/
ICOUNT=BADCODE=PARITY=0
IJK=0
9 CONTINUE
READ(1,100) IDD1,IFY,ISC,IEFF,ITERM,ISTATE,INSTAL1,INSTAL2,INSTAL3
1,INSTAL4,IDD2
100 FORMAT(1X,R4,31X,R2,6X,R2,1X,R6,R6,16X,R6,2X,3A10,A3,3X,R2)
IF(EOF(1)) 20,10
000010
000020
000030
000040
000050
000060
000070
000080
000110
000120
000130
000140
000150
000160
000170
000180
000190
000200
000210
000220
000230
000240
000250
000260
000270
000280
000290
000320
000330
000340
000350
000360
000370

```

```
10 CONTINUE
   IJK=IJK+1
   IDD1=SHIFT( IDD1,36)
   IF(IJK.GT.250) GOTO 20
   IF(IFY.EQ.2R76) GOTO 3
   GOTO 9
3 CONTINUE
  DO 12 I=1,38
  IF (ICODES(I).EQ. .IDD1) GOTO 13
12 CONTINUE
```

SORTOUTGRANTMASTER

```
PWSCM,CM100000,T50,P4.  
CHARGE,PUAJ,1189043801,RS,I.  
FTN.  
ATTACH,TAPE1,OUTGRANTMASTER76,ID=PUAJ.  
REQUEST(TAPE2,*PF)  
LIBRARY(COBOL)  
REL,100000.  
LGO.  
REDUCE.  
CATALOG,TAPE2,OMS6,ID=PUAJ.  
PROGRAM ONEFILE(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)  
CALL SMSORT(43)  
CALL SMFILE("SORT","CODED",1,"REWIND")  
CALL SMFILE("OUTPUT","CODED",2,"REWIND")  
CALL SMKEY(1,1,43,0,"DISPLAY","DISPLAY","A")  
CALL SMEND  
5 WRITE(6,100)  
100 FORMAT(*1NORMAL COMPLETION*)  
STOP  
END
```

000100  
000110  
000120  
000130  
000170  
000180  
000190  
000200  
000210  
000240  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

PAJ, CMB0000, T20, P4.  
 CHARGE, PUAJ, 1189043801, RS, I.  
 REQUEST, TAPE1, \*PF.  
 ATTACH, TAPE5, OUTGRANTMASTERSORTER, ID=PUAJ.  
 FTN.

LGO.

CATALOG, TAPE1, OMSYR, ID=PUAJ.  
 PROGRAM CRUNCH(TAPE1, TAPE5, OUTPUT, TAPE9=OUTPUT)  
 INTEGER M1, M2, M3, M4, M5, I1, I2, I3, I4, I5, COUNT, IDD, MDD, MNS, INS, IUNIT  
 READ(5, 202) M1, M2, M3, M4, M5, MDD, MNS

I1=M1	000130
I2=M2	000140
I3=M3	000150
I4=M4	000160
I5=M5	000170
IDD=MDD	000171
INS=MNS	000172
IUNIT=1	000173
COUNT=1	000174
READ(5, 202) M1, M2, M3, M4, M5, MDD, MNS	000180
IF (EOF(5).NF.0) GOTO 80	000190
COUNT=COUNT+1	000200
IF (M1-I1) 10, 20, 10	000210
IF (M2-I2) 10, 30, 10	000220
IF (M3-I3) 10, 40, 10	000230
IF (M4-I4) 10, 50, 10	000240
IF (I5-I5) 10, 60, 10	000250
IUNIT=IUNIT+1	000260
GOTO 5	000270
WRITE(1, 240) I1, I2, I3, I4, I5, IDD, INS, IUNIT	000280
I1=M1	000290
I2=M2	000300
I3=M3	000310
I4=M4	000320

000330  
000340  
000350  
000360  
000370  
000380

```

I5=M5
IDD=MDD
INS=MNS
IUNIT=1
GOTO 5
  202 FORMAT(4R9,R3,A2,R2)
  240 FORMAT(4R9,R3,A2,R2,I5)
  80  WRITE(9,250)COUNT
  250 FORMAT(*EXECUTION COMPLETE;TOTAL RECORD READ=*.I10)
STOP
END
```

SORTCOMPLIANCERLATLONG  
SAME AS SORTOUTGRANTLATLONG

PWSCM,CM100000,T50,P4.  
CHARGE,PUWS,1189056946,RS,I.  
FTN.

ATTACH,TAPE1,OLATLONG,ID=PUWS.  
REQUEST(TAPE2,\*PF)  
LIBRARY(COBOL)  
RFL,100000.  
LGO.

REDUCE.

CATALOG,TAPE2,OLATLONGCARDSORTED,ID=PUWS.

PROGRAM ONEFILE(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)

CALL SMSORT(48)

CALL SMFILE("SORT","CODED",1,"REWIND")

CALL SMFILE("OUTPUT","CODED",2,"REWIND")

CALL SMKFY(1,1,39,0,"DISPLAY","DISPLAY","A")

CALL SMEND

5 WRITE(6,100)

100 FORMAT(\*NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000170  
000180  
000190  
000200  
000210  
000240  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

CRUNCHC

PAJ, CM6000, T20, P4.  
CHARGE, PUAJ, 1189043801, RS, I.

FTN.  
ATTACH, TAPE5, CMSYR, ID=PUAJ.  
REQUEST, TAPE1, \*PF.

LGO.

CATALOG, TAPE1, CMSYR, ID=PUAJ

PROGRAM, CRUNCH(TAPE1, TAPE5, OUTPUT, TAPE9=OUTPUT)

INTEGER M1, M2, M3, M4, M5, I1, I2, I3, I4, I5, COUNT, IDD, MDD, MNS, INS, IUNIT

READ(5, 202) M1, M2, M3, M4, M5, MDD, MNS

I1=M1

I2=M2

I3=M3

I4=M4

I5=M5

IDD=MDD

INS=MNS

IUNIT=1

COUNT=1

5 READ(5, 202) M1, M2, M3, M4, M5, MDD, MNS

IF (EOF(5).NE.0) GOTO 80

COUNT=COUNT+1

IF (M1-I1) 10, 20, 10

IF (M2-I2) 10, 30, 10

IF (M3-I3) 10, 40, 10

IF (M4-I4) 10, 50, 10

IF (I5-I5) 10, 60, 10

IUNIT=IUNIT+1

GOTO 5

10 WRITE(1, 240) I1, I2, I3, I4, I5, IDD, INS, IUNIT

I1=M1

I2=M2

I3=M3

000100  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000171  
000172  
000173  
000174  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000300  
000310

000320  
000330  
000340  
000350  
000360  
000370  
000380  
000390  
000400  
000410  
000420  
000430

```
I4=M4  
I5=M5  
IDD=MDD  
INS=MNS  
IUNIT=1  
GOTO 5  
202 FORMAT(4R9,R3,A2,R2)  
240 FORMAT(4P9,R3,A2,R2,I5)  
80 WRITE(9,250)COUNT  
250 FORMAT(*EXECUTION COMPLETE;TOTAL RECORD READ=*,I10)  
STOP  
END
```

CREATERELOCATIONMASTER

POLIN X333

PWSCM,CM60000,T200,MT1,P4.  
CHARGE,PUAJ,1189043801.

FTN,OPT=2.

VSN(TAPE1=CK1269)

REQUEST,TAPE1,MT,HI,NORING,S.

REQUEST,TAPE2,\*PF.

LGO.

CATALOG,TAPE2,RELOCATIONMASTER,ID=PUAJ,AC=1189043801.

PROGRAM CITY(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)

INTEGER Z(80,4),COUNTR,PARTITY,ICODES(33),ACODES(33),

1COUNTW,BADCODE

C COUNTR=NUMBER OF RECORDS READ

C COUNTW=NUMBER OF RECORDS WRITTEN

DATA ICODES /3LOXJ,3LOXK,3LOXL,3LOXP,3LOXR,3LOXT,

\*3LO7Y,

\*3LOXU,3LOXM,3LOXZ,3LOX0,3LO70,3L2SK,

\*3LOYA,

\*3LOYB,3LOYC,3LOYD,3LOYE,3LOYF,3LOYJ,3L2SN,3LOY7,

\*3LOYL,3LOYM,3LOYN,3LOYQ,3LOYR,

\*3LOYT,

\*3LOYU,3LOYV,3LOYZ,3LOY1,3LOX6/

DATA ACODES /2HA1,2HA2,2HA3,2HA4,2HC1,2HC2,2HD1,

\*2HE1,

\*2HE3,2HE4,2HE5,2HF2,2HZZ

\*,2HG2,2HG3,2HG4,2HH1,2HH2,2HH3,2HH4,2HZZ,2HZZ,2HK3,

\*2HK5,2HK6,2HL1,2HL2,

\*2HM1,2HM2,2HM3,2HM4,2HM5,2HF2/

COUNTW=BADCODE=PARITY=0

COUNTR=0

5 BUFFERIN (1,0) (Z(1,1),Z(80,4))

IF (UNIT(1)) 10,20,30

10 CONTINUE

000010  
000020  
000030  
000040  
000050  
000060  
000070  
000080  
000100  
000110  
000120  
000130  
000140  
000150  
000160  
000170  
000180  
000190  
000200  
000210  
000220  
000230  
000240  
000250  
000260  
000270  
000280  
000290  
000300  
000320  
000330  
000340

```

C      COUNTR=COUNTR+1
      IF(COUNTR.GT.250) GOTO 20
      DO 999 II=1,4
      IDD=Z(1,II).AND.MASK(18)
      DO 888 JJ=1,33
      IF(ICODES(JJ).EQ.IDD) GOTO 889
      888 CONTINUE
      C NO MATCH WRITE OUT THE CODE AND GET ANOTHER RECORD
      WRITE(6,100) IDD
      100 FORMAT(1X,* NO MATCH FOR THIS CODE *,A10)
      GOTO 999
      CONTINUE

```

```

000342
000344
000350
000360
000370
000380
000390
000400
000410
000420
000430
000440

```

RELOCATIONMASTER

INCL,OM75000,T50,P4.  
CHARGE,PUWS,1189056946,RS,I.  
FTN.

ATTACH,TAPE1,RELOCATIONMASTER,ID=PUWS.

REQUEST(TAPE2,\*PF)

LIBRARY(COBOL)

RFL,75000.

LGO.

REDUCE.

CATALOG,TAPE2,RELOCATIONMASTERSORTED,ID=PUWS.

PROGRAM ONEFILE(TAPE1,TAPE2,OUTPUT,TAPE6=OUTPUT)

CALL SMSORT(61)

CALL SMFILE("SORT", "CODED", 1, "REWIND")

CALL SMFILE("OUTPUT", "CODED", 2, "REWIND")

CALL SMKEY(1,1,56,0,"DISPLAY", "DISPLAY", "A")

CALL SMEND

WRITE(6,100)

FORMAT(\*1NORMAL COMPLETION\*)

STOP

END

000100  
000110  
000120  
000130  
000170  
000180  
000190  
000200  
000210  
000240  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

SORTRELOCATIONLATLONG

PWSCM, CM75000, T50, P4.  
CHARGE, PUWS, 1189056946 RS, I.  
FTN.  
ATTACH, TAPE1, RLATLONG, RDS, ID=PUWS.  
REQUEST(TAPE2, \*PF)  
LIBRARY(COBOL)  
RFL, 75000.  
LGO.  
REDUCE.  
CATALOG, TAPE2, RLATLONG, HARDSORTED, ID=PUWS.  
PROGRAM ONEFILE(TAPE1, TAPE2, OUTPUT, TAPE6=OUTPUT)  
CALL SMSORT(68)  
CALL SMFILE("SORT", "CODED", 1, "REWIND")  
CALL SMFILE("OUTPUT", "CODED", 2, "REWIND")  
CALL SMKEY(1, 1, 56, 0, "DISPLAY", "DISPLAY", "A")  
CALL SMEND  
5 WRITE(6, 100)  
100 FORMAT(\*1NORMAL COMPLETION\*)  
STOP  
END

000100  
000110  
000120  
000130  
000170  
000180  
000190  
000200  
000210  
000240  
000255  
000310  
000320  
000330  
000340  
000350  
000415  
000417  
000420  
000430

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APPENDIX E:

SAMPLES OF AMS5 AND ALLS FILES AND DATA  
FORMATS FOR EACH; OUTPUT OF MAPDATA,  
CALLED ANSM.

AMS5/BMS5

A1204487	3008636017500006000115500031807	LOWER ST FRAN BAS FLDWY
A1204487	3008636027 000004000006800001740	LOWER ST FRAN BAS FLDWY
A1204638	14027260175000033000063300392450	ST FRAN BIG CREEK ITEM-1
A1204646	10077460175000017000075600259800	ST FRAN CEN DONNICK FLDY
A1204651	29126960175000002000001400010275	ST FRAN DTCH 9-10 ITEM 2
A1204655	05047460175000119000060300396900	ST FRAN BAS DITCH 27
A1204655	05047460275000013000009700065900	ST FRAN BAS DITCH 27
A1204659	29126910175000010000004900039900	ST FRAN BAS BIG BAY IT 1
A1204668	29126960175000037000024200051250	ST FRAN BAS LOCUST CREEK
A1204675	19086660375000003000002800009028	ST FRAN TYRONZA R ITEM 2
A1226525	02087360175000005000005600030850	MISS RIV LEVEE BARNES RG
A1226527	2111676017500000000000000000050	MISS RIV LEVEE BIRDS PT
A1226527	21116760275000005000004000000250	MISS RIV LEVEE BIRDS PT
A1226639	30047460275000002000020200032825	ST FRAN DTCH 1 IT-2-3
A1226639	30047460175000030000110100148600	ST FRAN DTCH 1 IT-2-3
A1226672	05027360475000002000001200003100	ST FRAN BAS MINGO DITCH
A1226685	23107360275000002000007100008900	ST FRAN WAPOAPELLO IT 4
A1226685	23107360175000003000003000007115	ST FRAN WAPPAPELLO IT 4
A1243539	02087410175000001000004100008000	MISS RV-TRIB W TENN MIT

Data Format for Acquisition Master File (AMSYR or BMSYR)

Name of Field	Columns		No. Cols.	Type of Data*	Justi- fy**	Remark
	From	TC				
Division	1	1	1	A	L	
District	2	2	1	N	L	
Department	3	3	1	N	L	
State Code	4	5	2	N	L	Use State Code already in file.
Installation or Project No.	6	8	3	N	L	
Directive No.	9	13	5	N	L	
Directive Date/Date of Approval of REDM (Day,Month,Year)	14	19	6	N	R	
DOD Category	20	20	1	N	L	o
Method of Acquisition	21	22	2	N	R	
Fiscal Yr. in which Acq. Occur	23	24	2	N	R	
No. of Tracts Acquired	25	30	6	N	R	
No. of Acres Acquired	31	37	7	N	R	o
Amount of Accepted Option	38	45	8	N	R	o
Federal Agency from which Acquired	46	49	4	N	R	o
Installation Name	50	73	24	A/N	L	o
State Abbreviation	74	79	6	A	L	o

o Data not needed in Program MAPDATA or MAP

A=ALPHA, N=NUMERIC

\*\* L=LEFT, R=RIGHT

ALLS/BLLS

A1204487	3604	9021
A1204638	3604	9021
A1204646	3604	9021
A1204651	3604	9021
A1204655	3604	9021
A1204659	3604	9021
A1204668	3604	9021
A1204675	3604	9021
A1204677	3604	9021
A1218523	3700	8900
A1226525	3631	9016
A1226527	3631	9016
A1226639	3631	9016
A1226672	3630	9000
A1226685	3700	9025
A1243539	3610	8926
A2219600	2944	9036
A2244210	3323	9542
A2244210	3323	9542

Data Format for Acquisition Latitude, Longitude File (ALLS/BLLS)

Name of Field	Columns From TC	No. of Cols.	Type of Data*	Justi- fy**	Remark
Division	1	1	A	L	
District	2	1	N	L	
Department	3	1	N	L	
State Code	4	5	2	N	R Use State Code already in file
Installation or Project No.	6	8	3	N	R
Latitude Degree	14	15	2	N	R
Latitude Minute	16	17	2	N	R
Longitude Degree	18	20	3	N	R
Longitude Minute	21	22	2	N	R

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT

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ANSM/BNSM

A1204467	300863601750000060001155000031807	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204467	3008636027 0000040000008800001740	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204438	14027260175000033000063300392450	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204446	10077460175000017000075600259800	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204651	291269601750000020000014000010275	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204655	050474601750001190000060300395900	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204655	05047460275000013000009700065900	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204659	2912691017500001000004900031900	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204668	29126960175000037000024200051250	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1204675	190666603750000030000028000009028	36 4 9021 AKH A1 M4 A3	.09446	.09647	.01684	.03584	.04455	.01684
A1226525	02287360175000005000005600030850	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226527	21116760175000000000000000000050	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226527	211167602750000000000000000000250	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226639	30047460275000000000000000000000250	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226639	30047460175000000000000000000000250	3631 9016 AHK A1 A3 M4	.09118	.09684	.02434	.03666	.04206	.02434
A1226672	050273604750000020000110100145600	3630 90 0 AHK A1 A3 M4	.08817	.09342	.02386	.03705	.04452	.02386
A1226685	23107360275000000000000000000000900	37 0 9025 AHP A3 A1 M4	.08896	.09311	.02837	.03299	.04732	.03299
A1226685	231073601750000000000000000000007115	37 0 9025 AHP A3 A1 M4	.08896	.09311	.02837	.03299	.04732	.03299
A1243539	020874101750000010000041000000000	3610 8926 AKH A1 H3 A3	.08363	.08506	.02008	.03734	.04406	.02008

DMS5

ABERDEEN	MARYLAND	21E1	0	1
ADDISON	ILLINOIS	14C2	1	0
AIKEN	S. CAROLINA	41K6	0	1
ALAMEDA	CALIFORNIA	5L2	0	1
ALAMOGORDO	NEW MEXICO	2M1	0	1
ALBUQUERQUE	NEW MEXICO	32M1	0	6
ALEXANDRIA	LOUISIANA	19M2	0	2
ALMA	NEBRASKA	28C1	0	1
ALTUS	OKLAHOMA	37M5	0	1

Data Format for Disposal Master File (DMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State	16 25	10	A	L	
State Code	26 27	2	N	R	
Division	28 28	1	A	L	
District	29 29	1	N	L	
GSA Unit	30 33	4	N	R	
OCE Unit	34 37	4	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

## DISPOSAL-DLLS

ABBEVILLE	LOUISIANA	2958 92 8
ABERDEEN	MARYLAND	3931 7610
ABERDEEN	MISSISSIPPI	3349 8833
ABERDEEN	WASHINGTON	465912350
ABILENE	TEXAS	3228 9943
ADAK ISLAND	ALASKA	514517645
ADAMS	WISCONSIN	4357 8949
ADA	OKLAHOMA	3446 9641
ADDICKS	TEXAS	2947 9539
ADDISON	ILLINOIS	4156 8759
ADMIRALTY IS	ALASKA	573013430
ADRIAN	MICHIGAN	4154 84 2
ADVANCE	MISSOURI	37 6 8955
AGNEW	NEBRASKA	4110 9649
AIKEN	S. CAROLINA	3334 8143
AINSWORTH	NEBRASKA	4233 9952
AJO	ARIZONA	322211252
AKRON	ALABAMA	3253 8745
AKRON	OHIO	41 5 8131
ALAMEDA	CALIFORNIA	374612215

## Data Format for Disposal Latitude, Longitude File (DLLS)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State	16 25	10	A	L	
Latitude Degree	26 27	2	N	R	
Latitude Minute	28 29	2	N	R	
Longitude Degree	30 32	3	N	R	
Longitude Minute	33 34	2	N	R	

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT

DNSM

ABERDEEN	3931	7610E1	0	121	EDR	E1	E5	E3	.03570	.08203	.11296	.00731	.01541	.03570	.00731	
ADDISON	4156	8759C2	1	014	FHO	F2	A3	H2	.00463	.06752	.10541	.00463	.06497	.07077	.10541	
ALAMEDA	37461	2215L2	0	1	5	LGO	L2	L1	.00232	.13564	.35705	.01771	.08581	.13564	.01771	
ALAMOGORDO	32541	0557M1	0	132	MCA	M1	M2	M5	.13390	.20105	.22149	.03943	.12686	.15502	.03943	
ALBUQUERQUE	35	510639M1	0	632	MCL	M1	M2	M5	.14787	.18140	.22606	.00000	.14135	.15336	.00000	
ALEXANDRIA	3118	9227M2	0	219	AMK	A4	A2	M3	.02959	.06959	.12613	.02959	.04269	.04972	.07609	
ALMA	4323	8429C1	0	128	FHF	F2	H4	H1	.04818	.07476	.14350	.04818	.07755	.09073	.15202	
ALTUS	3438	9920M5	0	137	MCA	M2	M5	M4	.04876	.12469	.12924	.04418	.05548	.10117	.05548	
AMARILLO	35131	0150M2	1	044	MCA	M1	M2	M5	.08408	.13247	.16643	.06877	.07846	.08548	.07846	
ANNISTON	3339	8550K5	0	53	T	KAH	H3	K5	.02113	.07731	.09690	.04598	.06126	.06601	.06126	
ALABAMA																

IMS5

ABERDEEN	37	K6N	1
ABILENE	48	M2N	1
ABILENE	48	M2R	1
ADA	40	M5N	1
AFTON	40	M5N	1
AGAWAN	25	E3N	1
AKRON	39	E1N	1
AKRON	39	E1R	3
ALAMANCE COUNTY	37	K6N	1
ALAMEDA	06	L2N	2
ALAMOSA	08	C2N	1
ALAMOSA	08	C2R	1
ALBANY	13	K6N	1
ALBANY	36	E3N	8
ALBANY	41	G3N	1
ALBUQUERQUE	35	M1N	5
ALEXANDRIA	51	E1N	18
ALICEVILLE	01	K5N	1
ALICE	48	M3N	2

Data Format for Inleasing Master File (IMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State Code	16 17	2	N	R	
BLANKS	18 26	9	A		BLANKS shall be filled in the field
Division	27 27	1	A	L	
District	28 28	1	N	R	
TYPE	29 29	1	A	L	R or N shall be indicated
Number of unit	30 34	5	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

UMS5

ABBEVILLE	01	K5	4
ABBEVILLE	22	A2	2
ABERDEEN	37	K6	1
ABERDEEN	46	C2	2
ABERDEEN	53	G3	2
ABILENE	48	M2	4
ACEY	53	G3	1
ADAMS CO	08	C2	1
ADA	40	M5	2
ADDISON	17	C2	1
AFFTON	29	C1	1
AFTON	40	M5	1
AGAWAN	25	E3	1
AGUADILLA ST PR	RQ	ZZ	1
AGUADILLA	RQ	ZZ	42
AIKEN	45	K6	2
AJO	04	L1	1
AKRON	39	E1	8
ALAMANCE COUNTY	37	K6	1

Data Format for Utilization Master File (UMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State Code	16 17	2	N	R	
Blanks	18 26	9	A	L	Blanks shall be filled in the field
Division	27 27	1	A	L	
District	28 28	1	N	R	
Number of unit	29 33	5	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

ILLS/ULLS

ABBEVILLE	222958 9208
ABERDEEN	373508 7925
ABERDEEN	464528 9829
ABERDEEN	53465912350
ABILENE	483228 9943
ACEY	53
ADAMS CO	08394010450
ADA	403446 9641
ADDISON	174156 8759
ADRIAN	264154 8402
AFFTON	293833 9020
AFTON	403641 9458
AGANA GUAM	GQ
AGUADILLA ST PR	RQ
AGUADILLA	RQ
AIKEN	453334 8143
AJO	04322211252
AKRON	394105 8131
ALAMANCE COUNTY	373610 7929

Data Format for Inleasing/Utilization Latitude, Longitude File (ILLS/ULLS)

Name of Field	Columns From TO	No. Cols.	Type of Data*	Justi- fy**	Remark
Location	1 15	15	A/N	L	
State Code	16 17	2	N	R	See codes of states already in file
Latitude Degree	18 19	2	N	R	
Latitude Minute	20 21	2	N	R	
Longitude Degree	22 24	3	N	R	
Longitude Minute	25 26	2	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

INSM

ABERDEEN	3735 8 7925K6N	1	KHE E4 K6 H1	.07545	.09912	.12265	.05343	.05858	.07128	.05858
ABILENE	483228 9943M2N	1	MAC M2 M5 M3	.04298	.13014	.16227	.03587	.08466	.09206	.03587
ABILENE	483228 9943M2R	1	MAC M2 M5 M3	.04298	.13014	.16227	.03587	.08466	.09206	.03587
ADA	403446 9641M5N	1	MAC M5 M2 M4	.03467	.09429	.11410	.02675	.03632	.06309	.02675
AFTON	403641 9458M5N	1	MCA M5 C1 M4	.07305	.08154	.09573	.01610	.04251	.05083	.01610
AKRON	3941 5 8131E1N	1	HFE H4 H1 E1	.05293	.08117	.09934	.02285	.04820	.07248	.07248
AKRON	3941 5 8131E1R	3	HFE H4 H1 E1	.05293	.08117	.09934	.02285	.04820	.07248	.07248
ALAWANCE COUNTY	373610 7929K6N	1	KHE E4 H1 E1	.08179	.08635	.10916	.04645	.05691	.06727	.07499

UNSM

ABBEVILLE	222958 92 8A2	2	AMK A2 M3 A4	.04559	.08535	.13245	.03125	.04209	.04559	.03125
ABERDEEN	3735 8 7925K6	1	KHE E4 K6 H1	.07545	.09912	.12265	.05343	.05858	.07128	.05858
ABERDEEN	464528 9829C2	2	CFH C2 C1 F2	.07943	.15040	.21138	.07943	.12196	.15040	.07943
ABERDEEN	53465912350G3	2	GLC G3 G2 G4	.02926	.16160	.36023	.02076	.02926	.06794	.02076
ABILENE	483228 9943M2	4	MAC M2 M5 M3	.04298	.13014	.16227	.03487	.08466	.09206	.03587
ADAMS CO	08394010455C2	1	CMF M1 C2 M5	.12142	.16550	.23128	.08352	.12142	.13807	.12142
ADA	403446 9641M5	2	MAC M5 M2 M4	.03467	.09429	.11410	.02675	.03632	.06309	.02675
ADDISON	174156 8759C2	1	FHC F2 A3 H2	.00463	.06752	.10541	.00463	.06497	.07077	.10541
AFTON	293833 9020C1	1	FHC A3 C1 A1	.06840	.07966	.08977	.00216	.05857	.05976	.05857
AFTON	403641 9458M5	1	MCA M5 C1 M4	.07305	.08154	.09573	.01610	.04251	.05083	.01610
AIKEN	453334 8143K6	2	KHA K6 K3 H1	.03887	.10428	.13586	.02742	.05644	.08528	.02742
AJO	04322211252L1	1	LHG L1 M1 L2	.16582	.23594	.26472	.08400	.10191	.16348	.08400
AKRON	3941 5 8131E1	8	HFE H4 H1 E1	.05293	.08117	.09934	.02285	.04820	.07248	.07248
ALAWANCE COUNTY	373610 7929K6	1	KHE E4 H1 E1	.08179	.08635	.10916	.04645	.05691	.06726	.07499

AD-A057 146

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAI--ETC F/G 5/1  
REAL ESTATE MODEL OF ACTIVITY PERFORMANCE (REMAP) USER'S MANUAL--ETC(U)  
JUL 78 C P ALTHEIDE

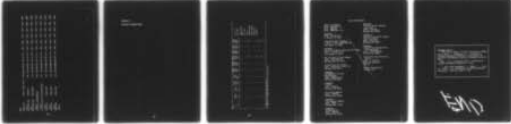
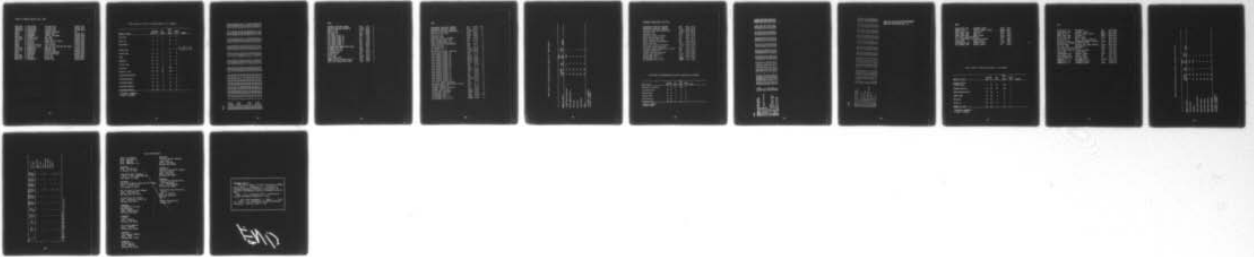
UNCLASSIFIED

CERL-TR-P-89

NL

3 of 3

AD  
A057 146



PROJECT PLANNING MASTER FILE--PMS5

M5237220	R 175CLAYTON	CLAYTON LAKE	OK3435 9521
M5237220	S 175CLAYTON	CLAYTON LAKE	OK3435 9521
M5237220	O 375CLAYTON	CLAYTON LAKE	OK3435 9521
M5237	R 175COLGATE	PARKER RESERVOIR	OK
M5237	R 175DURANT	ALBANY LAKE	OK3360 9623
M5237	R 175DURANT	CENTRAL OKLAHOMA	OK3360 9623
M5237424	R 175PONCA CITY	KAW LAKE	OK3642 9705
M5237429	O 175SALLISAW	KERR LAKE	OK3528 9447
M5237	R 175TULSA	MINGO AND JOE CREEK	OK3610 9554
M5137	R 175TULSA	CORPS LEASE	OK3610 9554
M5244	R 175WICHITA FALLS	LAKE WICHITA	TX3354 9830
M5244	S 175WICHITA FALLS	LAKE WICHITA AND HOLIDAY CREEK	TX3354 9830
M5237750	R 175WAURICA	WAURIKA LAKE	OK3410 9760
M5237750	S 275WAURICA	WAURIKA LAKE	OK3410 9760
M5237	R 175WISTER	WISTER RESERVOIR	OK3458 9443
M5237	S 175WISTER	WISTER RESERVOIR	OK3458 9443
M5537050	R 175ALTUS	ALTUS AFB	OK3438 9920
M5537050	S 175ALTUS	ALTUS AFB	OK3438 9920
M5237577	S 175HARDESTY	OPTIMA LAKE	OK363710112

Data Format for Project Planning Master File (PMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Division	1 1	1	A	L	
District	2 2	1	N	L	
Department	3 3	1	N	L	
State Code	4 5	2	N	R	Use state code already in file
Project No.	6 8	3	N	R	
Type	12 12	1	A	L	
Quantity	13 14	2	N	R	
Fiscal Year	15 16	2	N	R	
Location	17 35	19	A/N	L	
Project Title	36 69	34	A/N	L	
State Abbreviation	70 71	2	A	L	
Latitude Degree	72 73	2	N	R	
Latitude Minute	74 75	2	N	R	
Longitude Degree	76 78	3	N	R	
Longitude Minute	79 80	2	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

PNSM

M5237220	R 175 3435 9521	MAC M5 M2 M4	.03795	.07581	.11730	.02879	.04273	.04412	.02879
M5237220	S 175 3435 9521	MAC M5 M2 M4	.03795	.07581	.11730	.02879	.04273	.04412	.02879
M5237220	O 375 3435 9521	MAC M5 M2 M4	.03795	.07581	.11730	.02879	.04273	.04412	.02879
M5237	R 175 3360 9623	MAC M2 M5 M4	.02215	.08534	.12722	.02558	.03840	.06049	.03840
M5237	R 175 3360 9623	MAC M2 M5 M4	.02215	.08435	.12722	.02558	.03840	.06049	.03840
M5237424	R 175 3642 97 5	MCA M5 C1 M2	.06847	.08129	.11705	.01884	.05422	.06901	.01884
M5237429	O 175 3528 9447	MAC M5 M4 M2	.05528	.07841	.10291	.02016	.03782	.05975	.02016
M5237	R 175 3610 9554	MCA M5 C1 M4	.06050	.08932	.09833	.00023	.05433	.05705	.00023
M5137	R 175 3610 9554	MCA M5 C1 M4	.06050	.08932	.09833	.00023	.05433	.05705	.00023
M5244	R 175 3354 9830	MAC M2 M5 M4	.03134	.11454	.13334	.02663	.05411	.09081	.05411
M5244	S 175 3354 9630	MAC M2 M5 M4	.03134	.11454	.13334	.02663	.05411	.09081	.05411
M5237750	R 175 3410 9760	MAC M2 M5 M4	.02966	.10857	.12718	.02674	.04584	.08288	.04584
M5237750	S 275 3410 9760	MAC M2 M5 M4	.02966	.10857	.12718	.02674	.04584	.08288	.04584
M5237	R 175 3458 9443	MAC M5 M4 M2	.04876	.07201	.11168	.02700	.03505	.05383	.02700
M5237	S 175 3458 9443	MAC M5 M4 M2	.04876	.07201	.11168	.02700	.03505	.05383	.02700
M5537050	R 175 3438 9920	MCA M2 M5 M4	.04876	.12469	.12924	.04418	.05548	.10117	.05548
M5537050	S 175 3438 9920	MCA M2 M5 M4	.04876	.12469	.12924	.04418	.05548	.10117	.05548
M5237577	S 175 363710112	MCA M5 M1 M2	.09180	.10758	.16592	.07463	.08160	.08766	.07463
M5244	R 275 3340 9533	MAC M2 M5 M4	.02408	.07206	.13309	.03015	.04395	.05080	.04395

OMS5

ABERDEEN PROVING GROUND	MLD	E124	5
ABIQUIU DAM AND RESERVOIR	N MEX	M135	1
ADA CITY OF	OKLA	M540	1
ADDICKS DAM	TEX	M348	6
AF PLANT =3	OKLA	M540	1
AIR FORCE PLANT 13	KAN	C120	2
AIR FORCE PLANT 38	N-Y	E336	1
AIR FORCE PLANT 42	CAL	L106	1
AIR FORCE PLANT 44	ARZ	L104	1
AIR FORCE PLANT 4	TEX	M248	1
AIR FORCE PLANT 6	GEO	K613	1
ALABAMA ARMY AMMUNITION PLANT	ALA	K501	5
ALIAMANU MIL RES	HAW	Z715	1
ALIGATOR CATFISH	MISS	A428	1
ALLATOONA RES	GEO	K513	17
ALMOND LAKE	N-Y	E136	1
ALTUS AFB	OKLA	M540	1
ALUM CREEK LAKE	OHIO	H139	1
AMARILLO NATL GUARD FACILITY	TEX	M248	2
AMES LAKE SKUNK RIVER IOWA	IOWA	E219	1

CMS5

ABERDEEN PROVING GROUND	MLD	E124	121
ABERDEEN PROVING GROUND	VIR	E151	1
ABIQUIU DAM AND RESERVOIR	N MEX	M135	10
ADAIR AF STATION	ORE	G341	5
ADA CITY OF	OKLA	M540	1
ADDICKS DAM	TEX	M348	71
ADDISON FLOOD CONTROL	N-Y	E136	1
AERO CHART-INFO CTR	KAN	C120	1
AERO CHART-INFO CTR	MO	C129	4
AFES STATION MONTGOMERY	ALA	K5 1	1
AFRC WICHITA	KAN	C120	2
AF PLANT NO 14	CAL	L1 6	9
AF PLANT =3	OKLA	M540	4
AIKEN AIR FORCE STATION	S CAR	K645	2
AIR FORCE PLANT 13	KAN	C120	7
AIR FORCE PLANT 19	CAL	L1 6	2
AIR FORCE PLANT 27	OHIO	E139	2
AIR FORCE PLANT 28	MASS	E325	1
AIR FORCE PLANT 29	MASS	E325	2
AIR FORCE PLANT 36	OHIO	E139	5
AIR FORCE PLANT 38	N-Y	E336	4
AIR FORCE PLANT 42	CAL	L1 6	20
AIR FORCE PLANT 44	ARZ	L1 4	5
AIR FORCE PLANT 47	OHIO	E139	3
AIR FORCE PLANT 4	TEX	M248	17
AIR FORCE PLANT 59	N-Y	E336	2
AIR FORCE PLANT 65	MO	C129	10
AIR FORCE PLANT 6	GEO	K613	2
AIR FORCE PLANT 83	N MEX	M135	2
AIR FORCE PLANT 84	MO	C129	7
AJO AIR FORCE STATION	ARZ	L1 4	1
ALABAMA ARMY AMMUNITION PLANT	ALA	K5 1	19
ALAMO RESERVOIR	ARZ	L1 4	3
ALBANY COUNTY AIRPORT	N J	E334	1
ALBENI FALLS DAM	IDA	G316	12
ALCOA ANG STATION	TENN	K547	1
ALIGATOR CATFISH	MISS	A428	1
ALLATOONA RES	GEO	K513	196
ALLEGHENY RIV LD 2	PENN	H442	1
ALLEGHENY RIV L-D 4	PENN	H442	3

Data Format for Outgrant/Compliance Master File (OMSYR/CMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Installation/Location	1 33	33	A/N	L	
State Abbreviation	34 39	6	A	L	
Division	40 40	1	A	L	
District	41 41	1	N	L	
State Code	42 43	2	N	R	
Units	44 48	5	N	R	

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT

OUTGRANT/COMPLIANCE--OLLS/CLLS

ABERDEEN PROVING GROUND	MLD	3930	7615
ABERDEEN PROVING GROUND	VIR	3930	7615
ABIQUIU DAM AND RESERVOIR	N MEX	36161	0627
ADA CITY OF	OKLA	3440	9638
ADDICKS DAM	TEX	2947	9536
ADDISON FLOOD CONTROL	N-Y	4205	7715
AERO CHART-INFO CTR	KAN	3837	9012
AERO CHART-INFO CTR	MO	3837	9012
AFES STATION MONTGOMERY	ALA	3223	8619
AFRC WICHITA	KAN	3342	9720
AIDEN AIR FORCE STATION	S CAR	3500	8140
AJO AIR FORCE STATION	ARZ	32221	1252
ALABAMA ARMY AMMUNITION PLANT	ALA	3316	8621
ALAMO RESERVOIR	ARZ	34121	1329
ALBANY COUNTY AIRPORT	N J	4239	7345
ALCOA ANG STATION	TENN	3548	8359
ALLATOONA RES	GEO	3410	8444
ALLEGHENY RIV LD 2	PENN	4151	7857
ALLEGHENY RIV L-D 4	PENN	4151	7857

Data Format for Outgrant/Compliance Latitude, Longitude File (OLLS/CLLS)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Installation or Location	1 33	33	A/N	L	
State Abbreviation	34 39	6	A	L	
Latitude Degree	40 41	2	N	R	
Latitude Minute	42 43	2	N	R	
Longitude Degree	44 46	3	N	R	
Longitude Minute	47 48	2	N	R	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

ONSM

ABERDEEN PROVING GROUND	3930 7615E124	5 EDH E1 E5 E3	.03678	.08308	.11183	.00623	.01653	.03678	.00623
ARIQUITU DAM AND RESERVOIR	361610627M135	1 MCL M1 M2 M5	.15118	.16661	.22377	.02085	.14512	.14826	.02085
ADA CITY OF	3440 9638H540	1 MAC M5 M2 M4	.03298	.09291	.11579	.02809	.03482	.06242	.02809
ADDICKS DAM	2947 9536M348	6 MAK M3 M2 A4	.05541	.08353	.18013	.01479	.05765	.08353	.01479
ALABAMA ARMY AMMUNITION PLANT	3316 8621K501	5 KAH H3 K5 A1	.02984	.06839	.10503	.05099	.05163	.06256	.05163
ALATOONA RES	3410 8444K513	17 KHA H3 K6 H2	.00886	.08616	.09517	.04554	.06435	.07274	.07799
ALMOND LAKE	4220 7749E136	1 FDH H4 E5 E1	.05729	.08489	.10502	.04392	.05425	.05554	.05554
ALTUS AFB	3438 9920M540	1 MCA M2 M5 M4	.04876	.12469	.12924	.04418	.05548	.10117	.05548
ALUM CREEK LAKE	4010 83 0H139	1 HFK H1 H4 H2	.02761	.06795	.11364	.03143	.03998	.05018	.03143
AMARILLO NATL GUARD FACILITY	351310150M248	2 MCA M1 M2 M5	.08408	.13247	.16643	.06877	.07846	.08548	.07846
AWES LAKE SKUNK RIVER IOWA	4130 9150F219	1 CFH A3 C2 F2	.05490	.05514	.10597	.05485	.05490	.05514	.05514
ARKABUTLA RES	3446 90 8A428	91 AKM A1 M4 A4	.04357	.08481	.10293	.00651	.03083	.04357	.04357
ARK R HENSLEY BAR CUT-OFF	34 2 9110M405	1 AMK M4 A1 A4	.02967	.08515	.09838	.02037	.02502	.02967	.02037
ARMY TOPOGRAPHIC STATION	3858 7710E124	1 EDH E1 E5 F4	.05228	.09857	.09965	.00927	.03195	.03889	.00927
MLD									
N MEX									
OKLA									
TEX									
ALA									
GEO									
N-Y									
OKLA									
OHIO									
TEX									
IOWA									
MISS									
ARK									
MLD									

CNSM

ABBREVIEN PROVING GROUND	3930 76158124	121 B24 E1 E5 E3	.03678	.08308	.11183	.00423	.01653	.03678	.00423
ABBREVIEN PROVING GROUND	3930 76158151	1 S04 E1 E5 E3	.03678	.08308	.11183	.00423	.01653	.03678	.00423
ABBREVIEN PROVING GROUND	3930 76158151	1 S04 E1 E5 E3	.03678	.08308	.11183	.00423	.01653	.03678	.00423
ABICHO DAM AND RESERVOIR	3616 06274135	10 MCL M1 M2 M5	.10118	.18651	.22337	.02085	.14012	.14026	.02085
ADA CITY OF	3480 36280340	1 MAC M5 M2 M4	.02258	.05231	.11519	.02559	.03402	.02242	.02559
ADDICYS DAM	2987 55368340	71 MAK M3 M2 M4	.05541	.08352	.16013	.01879	.05705	.02353	.01879
ADDITION FLOOD CONTROL	42 5 77158136	1 EDM E5 M4 E3	.04677	.07751	.10943	.04525	.04533	.04677	.04950
AERO CHAT-INFO CTR	3837 90120120	1 FPC A3 C1 A1	.06647	.07759	.09065	.00500	.06016	.06083	.06016
AERO CHAT-INFO CTR	3837 90120129	4 FPC A3 C1 A1	.06647	.07759	.09065	.00500	.06016	.06083	.06016
AFES STATION MONTGOMERY	3283 651965 1	1 KAR E5 M3 A4	.03659	.06732	.11949	.03321	.06437	.06732	.03321
AIRC WICHITA	3342 37205120	2 MAC M2 M5 M4	.03769	.05726	.13360	.01559	.04756	.07514	.10164
AJC AIR FORCE STATION	3222125211 4	1 LWC L1 M1 L2	.16542	.23554	.26472	.06400	.10191	.16240	.08400
ALABAMA ARMY AMMUNITION PLANT	3316 662165 1	19 KAR R3 E5 A1	.02928	.06639	.10503	.05099	.05163	.06256	.05163
ALAMO RESERVOIR	3412132911 4	3 LOM L1 M1 L2	.14072	.23223	.24337	.06450	.09330	.13508	.06690
ALBANY COUNTY AIRPORT	4239 73458334	1 DER D1 E3 E5	.03271	.03350	.15446	.03271	.03350	.05065	.03350
ALCOA AND STATION	3548 83558547	1 KWA H3 H2 H1	.03624	.05607	.11647	.04066	.04845	.05041	.10721
ALLACORA RES	3410 64445313	196 LMA H3 E6 H2	.06686	.06616	.09517	.04354	.06435	.07274	.07799
ALLEGHENY RIV LD 2	4151 78578442	1 EMD M4 E1 E5	.06786	.06809	.10030	.02842	.05444	.05991	.02842
ALLEGHENY RIV L-3 4	4151 78578442	3 EMD M4 E1 E5	.06786	.06809	.10030	.02842	.05444	.05991	.02842

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RMS5

ALUM CREEK LAKE	DELAWARE COUNTY	OHIO	39H11
ANDREWS AFB	PRINCE GEORGES COUNTY	MARYLA	24E11
APPLE GATE LAKE	JACKSON CO	OREG	41G21
BEAR CREEK LAKE	KNOX CO	COLO	08C21
BEECH FORK LAKE	WAYNE COUNTY	W-VA	54H11
BIG STONE LAKE-WHETSODESSA		MINN	27F21
BIG THICKET NATL PK	JEFFERSON COUNTY	TEX	48M21
BIRCH LAKE	OSAGE COUNTY	OKLA	40M51
BLOOMINGTON LAKE	MINERAL COUNTY	W-VA	54E11
BLUE MARSH LAKE	BERKES COUNTY	PA	42E51

Data Format for Relocation Master File (RMSYR)

Name of Field	Columns From TC	No. Cols.	Type of Data*	Justi- fy**	Remark
Project Title/ Installation	1 20	20	A/N	L	
County/Location	21 50	30	A/N	L	
State Abbreviation	51 56	6	A	L	
State Code	57 58	2	N	L	
Division	59 59	1	A	L	
District	60 60	1	N	L	
Number of Unit	61 61	1	N	L	

\*A=ALPHA, N=NUMERIC  
\*\*L=LEFT, R=RIGHT

RLLS

ALICEVILLE L-D	PICKENS CO	ALA	3308 8809
ALUM CREEK LAKE	DELAWARE COUNTY	OHIO	4010 8300
ANDREWS AFB	PRINCE GEORGES COUNTY	MARYLA	3844 7656
APPLE GATE LAKE	JACKSON CO	OREG	421612310
BEECH FORK LAKE	WAYNE COUNTY	W-VA	3813 8227
BELTON LAKE	BELL + CORYELL COUNTIES	TX	3107 9729
BELTZVILLE LAKE	CARBON AND MONROE COUNTIES	PENN	4045 7530
BERWICK RATS FLDWALL	ST MARYS PARISH	LA	2941 9112
BIG BEND DAM	BUFFALO AND LYMAN COUNTIES	S-DAK	4407 9923
BIG HILL LAKE	MONTGOMERY CO	KAN	3720 9541
BIG STONE LAKE-WHETS	ODESSA	MINN	4518 9627
BIG THICKET NATL PK	JEFFERSON COUNTY	TEX	2940 9415
BIRCH LAKE	OSAGE COUNTY	OKLA	3634 9610
BLOOMINGTON LAKE	MINERAL COUNTY	W-VA	3939 7904
BLUE MARSH LAKE	BERKES COUNTY	PA	4020 7556
BLUE SPRINGS LAKE	JACKSON COUNTY	MO	3901 9342
BONNEVILLE L-D	MULNOMAH COUNTY	ALASKA	453912156
BONNEVILLE L-D	MULTNOMAH COUNTY	ORE	453912156
BONNEVILLE L-D	SKAMANIA COUNTY	WASH	453912156

Data Format for Relocation Latitude, Longitude File (RLLS)

Name of Field	Columns From	IC	No. Cols.	Type of Data*	Justify**	Remark
Installation	1	20	20	A/N	L	
Location	21	50	30	A/N	L	
State Abbreviation	51	56	6	A	L	
Latitude Degree	60	61	2	N	R	
Latitude Minute	62	63	2	N	R	
Longitude Degree	64	66	3	N	R	
Longitude Minute	67	68	2	N	R	

\*A=ALPHA, N=NUMERIC

\*\*L=LEFT, R=RIGHT

RNSM

ANDREW'S AFB	PRINCE GEORGES COUNTY	MARYLA3844 765624E11 EDH E1 E5 E4	.05242	.09881	.10315	.01052	.03193	.03407
.01052								
APPLE GATE LAKE	JACKSON CO	OREG 42161231041G21 GLC G2 L2 G4	.05743	.07889	.35231	.05743	.06806	.08974
.05743								
BEECH FORK LAKE	WAYNE COUNTY	W-VA 3813 822754H11 HKF H1 H2 H4	.03211	.08260	.09426	.00349	.04547	.05075
.00349								
BIG STONE LAKE-WHETSODESSA		MINN 4518 962727F21 CFH C2 C1 F2	.07032	.12630	.18814	.07032	.11086	.12630
.12630								
BIG THICKET NATL PK JEFFERSON COUNTY		TEX 2940 941548M21 MAK M3 A2 A4	.06652	.06876	.16281	.01053	.06356	.06876
.07048								
BIRCH LAKE	OSAGE COUNTY	OKLA 3634 961040M51 MCA M5 C1 M4	.06669	.08235	.10578	.00782	.04931	.06354
.00782								
BIRCH LAKE	OSAGE COUNTY	OKLA 3634 961040M51 MCA M5 C1 M4	.06669	.08235	.10578	.00782	.04931	.06354
.00782								
BIRCH LAKE	OSAGE COUNTY	OKLA 3634 961040M51 MCA M5 C1 M4	.06669	.08235	.10578	.00782	.04931	.06354
.00782								

○ APPENDIX F:

NECESSARY PROGRAM NAMES

FILE	Parameter File X1	Lat/Long File XLLS	Master File for '75 XMS5	Master File for '76 XMS6	MAPDATA			MAPDATA			MAPDATA			Other Files
					Program Type 1 CV1,CV2 XMD1	Program Type 2 CV1,CV2 XMD2	Program Type 3 CV1,CV2 XMD3	MAP Program Type 1 CV1,CV2 XMAP1	MAP Program Type 2 CV1,CV2 XMAP2	MAP Program Type 3 CV1,CV2 XMAP3				
A	x	x	x	x	x	x	x	x	x	x	x	x	CRUCH1,(CRUNCHU, CRUCHC)	
B					x	x	x	x	x	x	x	x	REP1,(REP2)	
C	x	x	x		x	x	(x)	x	x	(x)	x	(x)	PROFILE	
D	x	x	x		x	x	(x)	x	x	(x)	x	(x)	CREATAAD,VALUEDEL	
I	x	x	x	x	x	x	x	x	x	x	x	x	REMAP1,(REMAP2)	
O	x	x	x	x	x	x	(x)	x	x	(x)	x	(x)	(REALESTATE3)	
P	x		x		x	x	x	x	x	x	x	(x)	(ATTACHPF)	
R	x	x	x	x	x	x	(x)	x	x	(x)	x	(x)		
U	x		x	x	x	x	(x)	x	x	(x)	x	(x)		

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(x) Permanent file cataloged under PUMS but could be cataloged under PUAJ

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206p. ; 27 cm. (Technical report - Construction  
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