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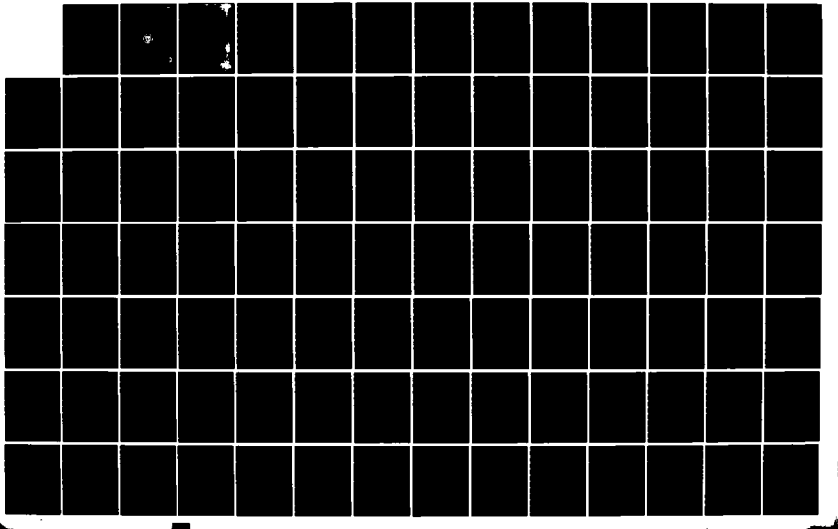

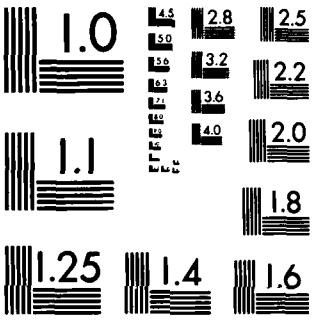

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PERSONNEL READINESS INDICATOR MODEL
(PRIM)
DOCUMENTATION
USER MANUAL

NOVEMBER 1984

PREPARED BY
FORCE SYSTEMS DIRECTORATE

US ARMY CONCEPTS ANALYSIS AGENCY
8120 WOODMONT AVENUE
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PRIM is a computer model which distributes projected personnel inventories to projected Army jobs and measures the resulting readiness. Personnel assignment policies are simulated and the results provide the means for evaluating the long-term effects of the policies. Other PRIM publications are the PRIM Study Report ~~(CAA-SR-84-5)~~, PRIM Functional Description ~~(CAA-D-84-1)~~, and PRIM User Manual ~~(CAA-D-84-3)~~. PRIM has been installed at the US Army Military Personnel Center (MILPERCEN). → p. 1-1

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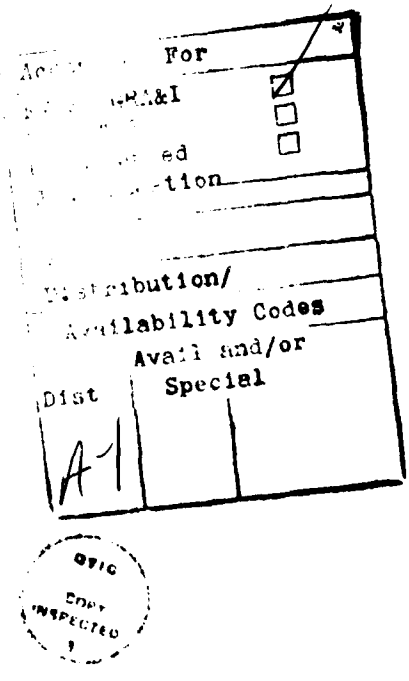

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PERSONNEL READINESS INDICATOR MODEL (PRIM)
USER MANUAL

SECTION 1

GENERAL DESCRIPTION

from 1473

1.1 PURPOSE OF THE USER MANUAL. The purpose of this User Manual for the Personnel Readiness Indicator Model (PRIM) is to provide non-ADP personnel with the information necessary to effectively utilize the system.

1.2 PROJECT REFERENCES

a. Study Directive, subject: Personnel Readiness Indicator Model (PRIM) Study, 26 September 1983.

b. FORECAST - A study designed to improve and replace many of the enlisted and officer inventory projections and distribution models. FORECAST does not directly address personnel readiness.

c. Army Regulation 220-1, Unit Status Reporting.

d. Program Maintenance Manual for the Personnel Readiness Indicator Model (PRIM), CAA-D-84-2, September 1984.

e. Functional Description for the Personnel Readiness Indicator Model (PRIM), CAA-D-84-1, September 1984.

f. Personnel Readiness Indicator Model (PRIM) Study Report, CAA-SR-84-5, September 1984.

g. The referenced policy guidance memorandums were used to determine the types of policies which were modeled by PRIM. The PRIM design is not dependent upon the specific policies stated in the following:

(1) DCSPER Memorandum, subject: Enlisted Distribution Policy Guidance, 4 October 1982.

(2) DCSOPS Memorandum, subject: Policy Guidance: Personnel Fill for Force Modernization, 13 September 1982.

(3) DCSPER Letter, subject: Officer Distribution Policy Guidance, FY 83, 4 October 1982.

1.3 TERMS AND ABBREVIATIONS. The following listing provides an explanation of acronyms and terms subject to interpretation by the reader. Acronyms for data variables are defined in the Program Maintenance Manual, Appendix A, Data Dictionary, of the PRIM Program Maintenance Manual, and the names are defined in Appendix A, File Descriptions, in this User Manual.

activity	Pay grade at an MOS at a particular demand
AR 220-1	Unit status reporting regulation for reporting the current status of selected Active and Reserve Component units.
ASCII	American Standard Code for Information Interchange.
ASGMT	Assignment code.
assignment code	Major command or DA staff agency to which the unit is assigned. The abbreviation is ASGMT.
AUDB	Authorization Data Base is the MILPERCEN-developed base for authorizations by UIC, MOS/SC, and grade for MTOE, table of distribution and allowances (TDA), and TDA augmentation organizations.
authorized jobs	The number of jobs that should be filled during peacetime. This number is frequently constrained to a smaller number of jobs than the required jobs. Either authorized or required jobs may be specified as the jobs for PRIM.
available MOS percentage	The available MOS-trained strength divided by the required modified table of organization (MTOE) strength and converted to a percentage.
available people	In PRIM, those personnel assigned to an ISSUE who are available for duty rather than sick, on leave, or unavailable for duty for other specified reasons. For a complete list, see Appendix B of AR 220-1.
available senior-grade percentage	The total number of available commissioned, warrant officers, and E-5 to E-9 enlisted grades, divided by the total required number of commissioned, warrant officers, and grades E-5 to E-9 converted to a percentage.
available strength	The total available strength divided by the required MTOE strength and converted to a percentage.
CAA	US Army Concepts Analysis Agency.
C-rating	The personnel readiness rating for an ISSUE based upon criteria in AR 220-1. It is the lowest of three ratings: senior grade, available MOS trained, or available strength.

CAP III	System currently used for enlisted assignments. It has a subsystem called MAX/FIT/FILL which does the actual assignments.
demand	Real job or super job.
DOPMA	Defense Officers Personnel Management Act.
excess people	The number of people, by MOS and grade, that have not been assigned by PRIM.
goal percentage	The minimum percentage of total aggregate fill.
high 5 or high five	The highest five enlisted grades, E-5, E-6, E-7, E-8, and E-9.
inventory	See projected personnel inventories.
ISSUE	An aggregation of units for the purpose of highlighting Individual Systems, Similar Units or Equipment.
job data	The jobs which will have personnel assigned to them by the assignment processor. The jobs are of a specific MOS or SC, grade level, and may be either required or authorized jobs.
LOCCO	Location code.
MACOM	Major Army command.
MILPERCEN	Military Personnel Center.
MOS	Military occupational specialty is a code representing the type of skill in which enlisted personnel or warrant officers have been trained and should be assigned to perform. Also used in the PRIM job data file to describe the skill the person, whether enlisted or officer, assigned to a job must possess.
MTOE	Modified tables of organization and equipment.
number of people	The set of "combined enlisted and officer personnel available" inventory.
ODCSPER	Office of the Deputy Chief of Staff for Personnel.
OFIP	Officer Force Implementation Plan.

parameters	Data values which are specific to each run and must be set by the user.
personnel data	The number of people (officers and enlisted) by MOS or SC grade that MILPERCEN expects will be available; the output of the P3M Model for enlisted personnel and the OFIP for commissioned officer personnel.
personnel policies	Rules that a set of assignments should meet, i.e., DARCOM will be supported at 100 percent of officer and warrant officer authorizations for SC 51 (research and development) and SC 97 (procurement).
PNET	A mathematical programing system for solving network flow problems. It embodies advanced network theory and computer science niques; an efficient, commercially ailable network solution routine. It sol problems as a minimum cost network flow.
policy	In PRIM, policies are the statements of minimum and maximum fill levels which have been in effect or are being tested prior to implementation. Policies may apply to all MOS, specific MOS, or specific grade levels. Policies modeled by PRIM must be converted to computer-readable format.
P3M	The Personnel Policy Projection Model which is used by MILPERCEN to develop inventories for use as personnel data. It computes, by MOS and grade level, the projected enlisted personnel inventory.
projected MTOE/TDA authorizations	The number of people, by specialty and grade, that will be needed in each unit (three-digit UIC) at a future time.
projected personnel inventories	The number of people, by specialty and grade, who are assumed to be in the Active Army at a future time.
required jobs	The jobs that must be filled if a unit is to achieve maximum readiness. Required MTOE jobs are used in PRIM for computation of C-ratings, IAW AR 220-1.
SC	Commissioned officer specialty code. In PRIM, SC is called MOS.

senior grade	Personnel in grades E-5 through E-9, WO, and O1 through O6.
STACO	Station Code.
super job	Imaginary job where personnel are assigned when no "real" jobs are left to be filled.
super soldier	Imaginary person assigned to a job when no person fitting requirements is available.
TPSN	Troop program sequence number.
UIC	Unit identification code - a code to identify uniquely each unit of the Active Army and Army Reserve Components. Although the UIC is normally six characters, the PRIM UIC is the "three-digit UIC" (characters 2-4 of UIC) unless otherwise stated.
unavailable factors	A standard factor representing the percentage of people not available for duty; input through the parameter file.
unfilled jobs	The jobs that have not had people assigned by PRIM.

1.4 SECURITY AND PRIVACY. All program code and listings are considered UNCLASSIFIED and require no special security considerations.

Outputs will be classified at the same level as the classification of the definition of ISSUES.

The personnel data used as input to PRIM is an output of an inventory projection model and does not contain information on individual people. Therefore, this section is not applicable.

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SECTION 2

SYSTEM SUMMARY

2.1 SYSTEM APPLICATION. The Personnel Readiness Indicator Model (PRIM) provides information to force planning personnel on the personnel readiness of units or unit aggregations based on projected personnel fills. With this information, the force planner can form a judgment as to the adequacy of the fill with respect to the capacity of an individual unit to carry out its mission or the capacity of groups of units to contribute to the force readiness. These judgments, combined with knowledge of today's force, is applicable to decisions on changing unit fill priorities, accessioning requirements, training or retraining needs, and offering or reducing reenlistment enticements. Of especial use is the capability to simulate changes to personnel fill policies such as percentage fill goals and fill priorities. This simulation provides MILPERCEN the capability to better evaluate the long-term results of personnel assignment policies which provide for minimum or maximum percentages of authorizations or for differing fill priorities among units or groups of units. Since policies can be evaluated prior to implementation, unrealistic fill goals or policies that would cause undue perturbation can be identified and reexamined before the assignment system would be required to actually assign people using them. In any desired manner, the user develops the projected personnel inventories as a set of summary information of the total number of people that will be available in each grade of all or some of the MOS/SC; develops the projected jobs by UIC, MOS/SC and grade; defines the appropriate unit aggregations; translates the personnel assignment policies to the computer-readable formats that are required for the Policy file and the Value file; and develops the set of data needed for the Parameter file. The files that control the PRIM processing, ISSUE, Parameter, Policy, Report Request, and Value files are described in Appendix B, User-defined Files. PRIM aggregates all data to the user-defined aggregated levels, assigns the inventory to the jobs using the priorities established in the Policy and Value file, assigns personnel not used in the first assignment to jobs not filled, and reports both detailed and summary information for ISSUEs, MOS, and grade levels which give the user the information needed to develop new policies or to evaluate present and proposed policies.

2.2 SYSTEM OPERATION. PRIM is a decision aid for the force plans officer at MILPERCEN. PRIM provides information which aids the evaluation of critical personnel issues such as:

- What is or will be the personnel readiness of Army units or unit aggregations such as divisions?
- How well can the Army assignment system satisfy stated personnel assignment policies and priorities?
- Will projected accessioning and training plans enhance or decrement Army readiness?

2.2.1 System Input and Output. As shown in Figure 2-1, PRIM input consists of six data sets. Although the formatted readiness reports were designed to be the major PRIM outputs, the Readiness files are formatted for printing when more detail is desired. A short description of each input file will be found below. File descriptions will be found in Appendix A. Detailed discussion of the control files (ISSUE Definition, Policy, Parameter, and Value) is in Appendix B, User-defined Files.

a. Projected Inventory. PRIM uses one input for the personnel inventory data which may contain data for enlisted, officer, or warrant officer projections. Alternatively, PRIM can handle a consolidation of data for all three types of personnel. At the time of PRIM development, MILPERCEN plans for developing this input included consolidation of enlisted projected personnel inventory from the P3M Model, the officer projected personnel inventory from the OFIP, and the warrant officer projected personnel inventory from the WOFIP. All of these data are the total number of personnel by MOS or SC and grade expected to be in the Army at some future date. This file is named the Number-of-People file; the file number is 21.

b. Projected Jobs. The jobs input to PRIM are described by MOS or SC, grade, and UIC. Any number less than or equal to nine of MOS characters may be specified in the input; the user specifies the number of characters that should be used by parameters in the Parameter file. There is a separate input for number of characters for enlisted MOS, warrant officer MOS, and officer SC. Current plans are that this input will be extracted from the AUDB. The file name is MOS-data, and the number is 8.

c. ISSUE Definition File. This is the unit aggregation specification. The user develops this to respond to the particular type of questions that needs to be answered. For instance, the example ISSUE Definition file used in Appendix B would allow the force plans officer to respond to questions concerning divisions, CONUS installations, or MACOM totals. Other Army ISSUEs could cause redefinition in this file. An example is, "How does the personnel readiness of units that are equipped with equipment type A compare with units equipped with equipment type B or C?" This file is numbered 14.

d. Policy File. Personnel assignment policies that are stated in terms of minimum or maximum percent fill for specified grade levels or grade aggregations, and are explicit as to Army ISSUE or MOS, are entered in this file. Allowed aggregate levels are the individual ISSUE or the highest aggregate level. See the description for file 91.

e. Value File. The user enters a minimum percentage fill and a maximum percentage fill and an associated value for each percentage for every defined ISSUE. This is the user's method of assuring that every ISSUE receives at least some minimum fill while some ISSUEs may be filled beyond their actual authorizations. The Value file is numbered 19.

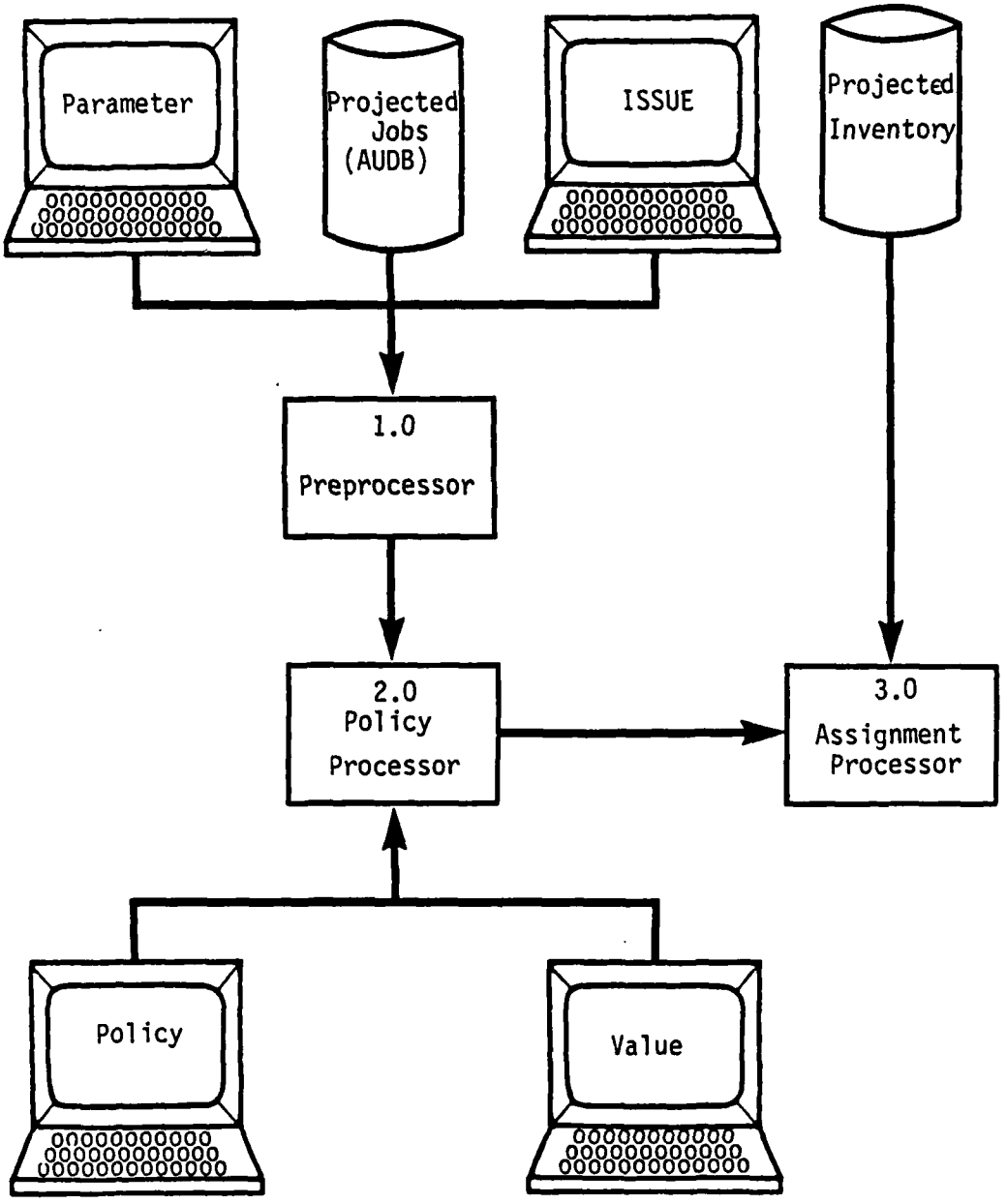

Figure 2-1. PRIM Inputs

f. Parameter File. Rather than a different set of input data for every module, all of the miscellaneous variables that are needed in the programs are defined in this file. Since many programs need the same information, one change to this file effectively means changes to inputs of several modules. Data such as date, the grades used in the present run, the correct number of MOS characters, and the percentages for C-ratings are in this file; its number is 17.

2.3 SYSTEM CONFIGURATION. The PRIM is resident on the UNIVAC 1100/82 Timesharing Multiprocessing System at the US Army Military Personnel Center (MILPERCEN). The model was developed using the level 10R1 UNIVAC ASCII FORTRAN compiler. The model should remain compatible with later releases of the system software. The PRIM draws significantly on available system main and mass memory resources during execution. As a result, it is necessary to anticipate and schedule the run workload into the overall mix in order to maintain satisfactory throughput. The average amount of core required is shown in Table 2-1.

Table 2-1. PRIM Core and Time Requirements

Process	Function	Size	Time
1.1.1	Roll UIC Data	18.4K	
	Sort	20.9K	
	Separate	15.0K	5-6 hours
1.1.2	Roll MOS Data	23.0K	
1.2	Set ISSUE Code	75.2K	
1.3	Aggregate MOS Data		
2.1	Edit Policy File	25.3K	
2.2A	Set ISSUE/MOS Policies	53.3K	
2.2B	Set MOS Policies	54K	2 hours
2.2C	Set ISSUE Policies	48.7K	
2.3	Set Base Values	49.0K	
3.0	Regular Assignment	107.6K	4-5 hours
4.1	Grade Substitution Assignment	110.0K	15 min to
4.2	MOS Substitution Assignment	110.0K	5 hours
5.0	Readiness	66.9K	User
6.0	Report	54.3K	determined

2.4 SYSTEM ORGANIZATION. The PRIM is divided into six separate freestanding processors that are executed sequentially in a batch environment to produce the final reports. Results of all processors are stored in mass storage files.

2.4.1 The first of the processors, the Preprocessor, creates the PRIM data base by rolling the UIC-level assignment information into ISSUE-level information to create the MOS-data file. This information will be required for use as the demands (jobs) in the Assignment Processor after transformation by the Policy Processor.

2.4.2 The second sequential processor, the Policy Processor, first edits the Policy file, next applies the specific policies to the MOS-data file, then creates the minimum and maximum fill levels for all other assignments to create the Job Assignment Value file.

2.4.3 The third processor, the Assignment Processor, uses the Number-of-People file and the Job Assignment Value file to create the data it requires for generating the personnel assignments.

2.4.4 The fourth processor, the Substitute Assignment Processor, assigns excess personnel to unfilled jobs using grade and MOS substitutions.

2.4.5 The fifth processor, the Readiness Processor, applies the criteria from AR 220-1 to develop the readiness measures and computes additional indicators for use by MILPERCEN.

2.4.6 The final processor, the Report Processor, produces the formatted reports chosen by the user.

2.5 SYSTEM PERFORMANCE

2.5.1 Input. The major computerized inputs for PRIM are unit information such as that contained in the header record of the AUDB (also see Appendix A, File Descriptions for file number 22) and information on available jobs within the units such as that contained in the detail record of the AUDB (see file number 8 in Appendix A). The user also prepares four small disk files which are used for the table-driven logic. These files are the ISSUE Definition file, Parameter file, Policy file, and Value file. Detailed instructions for these files may be found in Appendix B, User-defined Files. File descriptions in Appendix A are files numbered 14, 17, 19, and 91.

2.5.2 Output. Fourteen run diagnostic reports are printed, one for each separate module. These reports provide for monitoring the data assembly or assignment processing, and includes outputs such as a list of UICs that are included in each ISSUE and a list of MOS in each ISSUE. These are discussed in Section 3.4. Nine of these reports will provide the number of errors found but not the list of errors. The user may elect to view the error messages by reading file 13, Error Print file, or sending it to the main printer. In addition to the 14 run diagnostic reports, one of which is printed by each module or subprocessor, there are 11 user-selectable formatted readiness reports printed by the Report Processor; the user selects the readiness reports via the Report Request file, file 93. In addition, if the detailed readiness information is desired, the Readiness files (files 64-67, 70, 72, 73, and 74) have been formatted for printing. The formatted readiness reports are further described in Section 3.3.

2.5.3 Limitations. The limitations which are most important to the user are that the maximum number of MOS and SC in one ISSUE is 676, and the maximum number of ISSUEs that may be defined is 300. Other less significant limitations are shown in Table 2-2, Maximum Values, or Appendix B, User-defined Files.

Table 2-2. Maximum Values

Number of pay grades	16
MOS and SC per ISSUE	676
ISSUE definition	300
Maximum assignment value	999
Minimum assignment value	-99
Maximum fill rate	9.99
Number of MOS substitution for one MOS	5
Demand and resource name length	8
Number of demand node names	500
Number of arcs	3,000

2.5.4 Validity. The validity of the PRIM results is dependent upon the correctness of the input data. If either the inventory projection or the job projection is inaccurate, the PRIM results cannot be correct. The policy values and assignment base values will influence the final results; see Section 4 for a detailed description of the model sensitivity to the different types of input parameters. Section 3.5 describes error correction procedures. Also see the PRIM Study Report, CAA-SR-84-5.

2.5.5 Processing Time

a. Preprocessor. A normal run of the Preprocessor should require 5 to 6 hours, depending upon the number of input units, whether enlisted, warrant officer, and officer data, is input on the same or separate files, whether the unit and job data are input as 6-digit UIC or as 3-digit UIC, and the number of ISSUE definitions.

b. Policy Processor. A normal run of the Policy Processor will require about 2 hours, depending upon the number of MOS per ISSUE and the number of ISSUEs.

c. Assignment Processor. A normal run of the Assignment Processor will require 4 to 5 hours, depending upon the number of MOS to be assigned, and to a lesser extent, upon the number of ISSUEs that were defined.

d. Substitute Assignment Processor. The length of time required by this processor is completely dependent upon the number of valid substitutions requested. When either grade or MOS substitution is not needed, the corresponding module should not be run; the corresponding time is, therefore, zero. The general rule is that the minimum amount of time for grade substitution is approximately 15 minutes, depending upon the number of Job Assignment Value records written by the Policy Processor plus approximately 20 seconds for each MOS found on the Unfilled Job file. The MOS substitution requires the same 15 minutes plus a minute for each substitute "for" MOS plus another minute for each MOS substituted from. See Table 2-1 for the time required for the test data.

e. Readiness Processor. The length of time required by this processor is completely dependent upon the number of job records and level of aggregation. Less than 1 minute is required per MOS.

f. Report Processor. The length of time required by this processor is completely dependent upon the type and number of reports requested by the user.

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SECTION 3

STAFF FUNCTIONS RELATED TO TECHNICAL OPERATIONS

3.1 PREPARATORY PROCEDURES. Before running the PRIM, it is necessary to create the files needed by the Preprocessor. The UIC-data file is created from the header record of the AUDB. The MOS-data file is created from the detail records of the AUDB. All data must be ASCII for these processors to work. Methodologies for creating the Policy, Parameter, and ISSUE files are in Appendix B. Updates to these files should be made to the elements in the file named PFPRIM-FILES; the elements are moved to files for execution.

3.2 PROCESSING SEQUENCE. The PRIM is divided into six separate freestanding processors that are executed sequentially in a batch environment to produce the final reports. Results of all processors are stored in mass storage files. The complete PRIM system consists of 6 program files, 2 runstream files, and 62 data files. Many of the files may be temporary files, and no runstream will require that all files are resident at one time. A complete run of PRIM requires a minimum of 12 separate sequential runs. The user may choose to run these as one long-run string of executions or to run each separately, correcting input errors, and rerunning prior to attempting the next step. The general processing sequence is shown in Figure 3-1. All runstreams are in the file named PFPRIM-RUN.

3.2.1 Preprocessor. The initial processor, the Preprocessor, creates the PRIM data base by rolling the UIC-level assignment information into ISSUE-level information to create the MOS-data file. The Preprocessor contains four main programs and nine subroutines plus utility programs. Figure 3-2 shows the organization of the Preprocessor (all figures for Section 3.2.1 through Section 3.2.6 will be found at the end of Section 3.2). The functions performed by the Preprocessor are:

- Sort the two large input files and roll or aggregate the UIC-data file and the MOS-data file to the three-digit UIC level; see Figures 3-3 and 3-4.
- Edit the ISSUE Definition file and set the ISSUE in the UIC-data file and the MOS-data file.
- Aggregate the MOS-data file to ISSUE level.

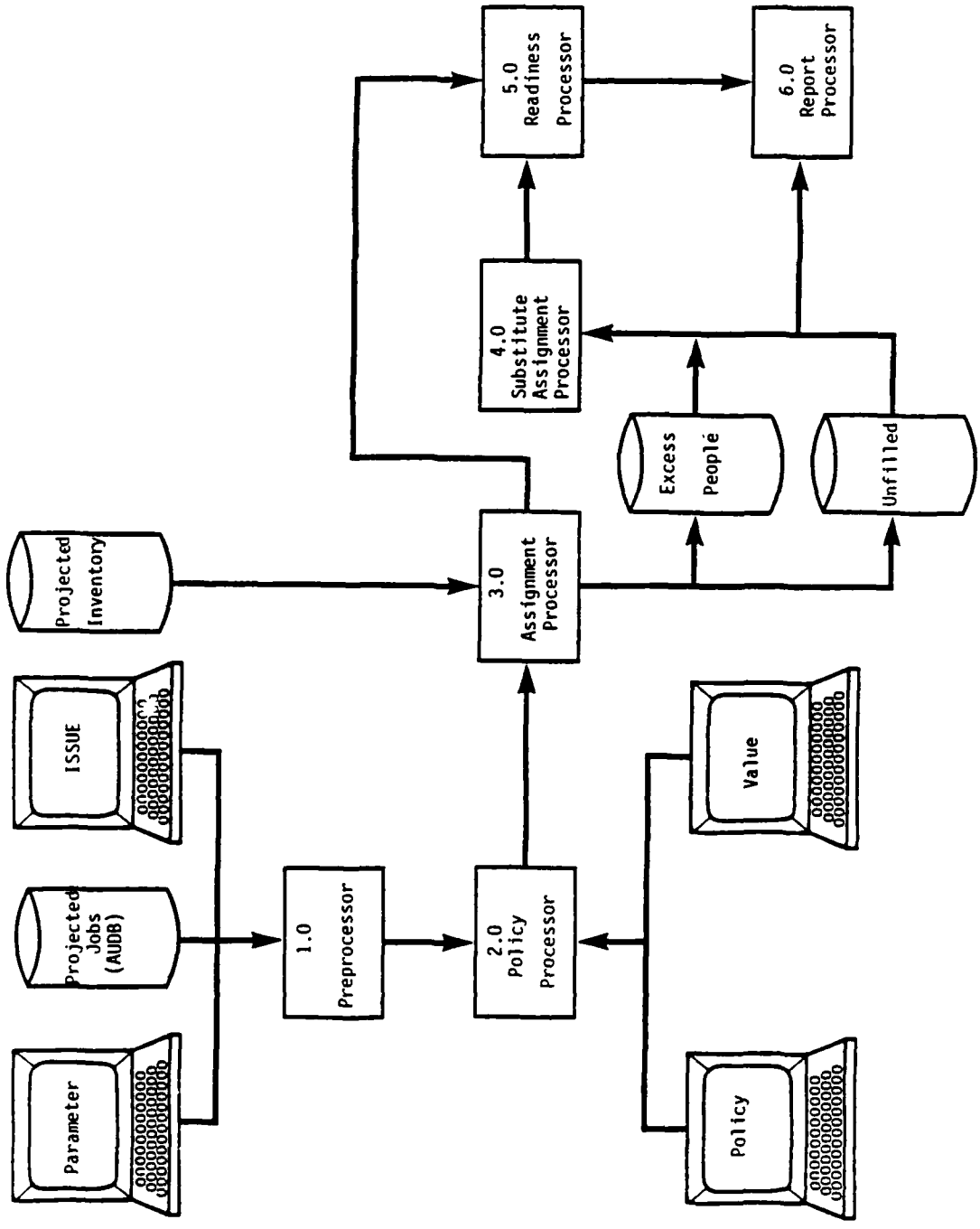

Figure 3-1. PRIM Processing Sequence

a. Roll or Aggregate UIC

(1) The steps included in this subprocessor are:

(a) Sort the UIC-data file into UIC-order sorting on characters 2 through 4 only. The options on the @SORT and on the KEY records must match the file type (ASCII or Fielddata); the example is correct for an ASCII file. See the Sperry UNIVAC Series 1100 SORT/MERGE UP-7621 Manual for instructions. This is a standard library item.

(b) Aggregate the UIC-data file to three-digit UIC level. Output includes a list of all six-digit UICs included in each three-digit aggregation.

(2) The runstream for this subprocessor, ROLUIC/1-1-1, is shown in Figure 3-5. Once this run has been successfully completed, it need not be repeated unless a new input UIC-data file is created.

b. Roll MOS

(1) This subprocessor rolls the detail information from the AUDB from the six-digit UIC level to the three-digit UIC level. Steps included in this subprocessor are:

(a) Sort the input MOS-data file into MOS within UIC order. It is necessary to assure that the options on the @SORT and the KEY= records match the file type (ASCII or Fielddata); the example runstream is correct for an ASCII file. See the Sperry UNIVAC Series 1100 SORT/MERGE UP-7621 Manual for instructions. This is a standard library item.

(b) Execute 755SEPARATE/1-1-2A to separate the three MOS-data files in preparation for aggregating on the number of MOS characters provided in the Parameter file.

(c) Execute 755ROLMOS/1-1-2 to aggregate the MOS-data file to three-digit UIC level and to the number of MOS characters specified in the Parameter file.

(2) If detail data for officer, warrant officer, and enlisted are already in separate files (see file numbers 26, 27, and 28 in Appendix A), or if only one type is to be run, remove the execution of 755SEPARATE/1-1-2A from the runstream. If separate input files are used, the call to the SORT processor will need to be changed to sort all three files instead of file 8.

(3) This subprocessor is included in the runstream ROLMOS/1-1-2 shown in Figure 3-6. The user should verify that the correct number of each type of detailed MOS-data (officer, warrant officer, and enlisted) has been read and that the correct number of MOS characters was used. Successful completion of this run means that it need not be repeated until a different set of MOS-data is created for use as input.

c. **Set ISSUE**

(1) This subprocessor uses the ISSUE file to set the ISSUE code in each UIC-data record. The UIC-data records are then matched with the MOS-data records on the three-digit UIC, and the ISSUE is set in the MOS-data records. The steps included in this subprocessor are:

(a) Sort the MOS-data file that was output from Process 1-1-2 into MOS within three-digit UIC order. Data must be ASCII for this runstream to run correctly. If the data is not ASCII, then the @SORT portion of the runstream must be changed. See the Sperry Univac Series 1100 SORT/MERGE UP-7621 Manual for instructions. This is a standard library item.

(b) Execute 755SETISSUE/1-2 which performs these actions:

1. Set the ISSUEs in the UIC-data file.

2. Aggregate the UIC-data file to ISSUE level and provide a list of the UICs included in each ISSUE.

3. Match the UICs in the MOS-data file with the UICs in the UIC-data file in order to obtain the ISSUE to insert into the MOS-data file.

(2) The flow of this subprocessor is shown in Figure 3-7, and the runstream SETISSUE/1-2 is shown in Figure 3-8. After completing this run execution, the user should check the run diagnostic report for indications that all records have had an ISSUE properly attached and that the correct UICs are associated with each ISSUE. If the ISSUE definitions were not satisfactory, a new set of ISSUE definitions may be created in PFPRIM-FILES.ISSUE and the run executed again.

(a) The sort of file 29 may be removed for additional runs, but it must be present if the previous run, ROLMOS/1-1-2, is rerun.

(b) It is not necessary, and is a waste of computer resources and analyst time, to repeat the previous runs when a new input data set has not been created.

(c) In order to perform a quick check of the ISSUE definitions (about one-fourth of the total time), set the debug flag to 10; the program will set the ISSUE in the UIC-data file only and give the error message. If another runstream is made that does not have the sort, it can be used for all but the first run; the time saved without the sort will be 1 to 2 hours on each run; and the time saved with a debug flag of 10 or greater will be about 1 hour each time. Once the ISSUE definitions produce the desired aggregations, set the debug flag to 1 or 2 and run this runstream (without the sort) one final time.

d. Aggregate MOS

(1) This subprocessor aggregates the MOS-data file to the ISSUE level and creates print files containing information that may be required to ensure the units have been grouped appropriately. The Aggregate Required Strength and the Aggregate Authorized Strength is computed for each ISSUE and across all ISSUEs. The steps included in this subprocessor and shown in Figure 3-9 are:

(a) Sort the MOS-data file into MOS within ISSUE code. Since this data was output from a program, the sort should be ASCII as in the example.

(b) Execute 755AGGMOS/1-3 to aggregate the MOS-data file.

(2) This subprocessor is included in the runstream AGGMOS/1-3 (Figure 3-10). As before, the user should verify that an appropriate number of records was read and written, the error messages have been corrected, and, in addition, two files formatted for printing will have been created for user verification. Files 85 and 86 contain data aggregated by grade and by MOS within ISSUE and should be checked (file descriptions will be found in Appendix A).

3.2.2 Policy Processor. The second processor, the Policy Processor, performs three functions. First, it edits the user-prepared Policy file. Then, it applies the policies to the MOS-data file, rewriting the applicable records with the minimum and maximum fill levels and value to the Job Assignment Value (JAV) file which is needed by the Assignment Processor. Finally, the remaining MOS-data records are rewritten using information from the Value file. The overall organization of the Policy Processor is shown in Figure 3-11.

a. Edit Policy

(1) The first run, EDIT-POLICY/2-1 edits the input Policy file and prepares a file containing only the Policy statements which pass the initial edit criteria. These include:

(a) All ISSUEs must have been previously defined in the ISSUE file.

(b) All grades must have been defined in the Parameter file.

(c) The low grade must be less than or equal to the high grade.

(d) All numbers must pass range tests.

(e) Minimum percentage fill level must be less than 1.0. If greater than 1.0 and less than 2.0, a warning message will be triggered. If the maximum percentage fill is greater than 2.0 or equal to 9.99, an error message will be issued.

(2) The flow of this subprocessor is shown in Figure 3-12. The runstream for EDIT-POLICY/2-1 will be found in Figure 3-13.

b. Apply Policies

(1) The second function of the Policy Processor begins with the run APPLY-POLICY/2-2-A which applies the policies that are stated in terms of both a specific ISSUE and a specific MOS. The flow is shown in Figure 3-14. Steps included are:

(a) Sort the MOS-data file into MOS within ISSUE order. The sort portion of the runstram was prepared for ASCII data.

(b) Execute 755APPPOL/2-2-A which performs these functions.

1. Create separate policy files for each different policy type.

2. Create a file containing indicators for each aggregated-ISSUE policy.

3. Apply the combined ISSUE and MOS Policy file; use the aggregated-ISSUE policy indicators for each Job Assignment Value record created.

(2) This subprocessor is included in the runstream APPLY-POLICY/2-2-A as shown in Figure 3-15.

(3) The Policy Processor continues with the run APPLY-POLICY/2-2-B that applies the policies which are stated in terms of a specific MOS, as shown in Figure 3-16. The steps are:

(a) Sort the extra job data from the previous step into MOS order.

(b) Execute 755APPPOL/2-2-B to apply the MOS Policy file.

(4) This subprocessor is included in the runstream APPLY-POLICY/2-2-B, in Figure 3-17.

(5) The Policy Processor ends with APPLY-POLICY/2-2-C which applies the policies that are stated in terms of a specific ISSUE; the flow is shown in Figure 3-18. The steps included are:

(a) Sort the extra job data from the previous run into ISSUE order.

(b) Execute 755APPPOL/2-2-C to apply the ISSUE Policy file.

(6) This subprocessor is included in the runstream APPLY-POLICY/2-2-C as shown in Figure 3-19.

c. Set Base Values. The third portion of the Policy Processor is the run SET-BASEVALU/2-3 which sets the minimum and maximum fill levels and values for all MOS-data records which did not previously have a policy applied. The flow of this subprocessor is shown in Figure 3-20, and the runstream SET-BASEVALU/2-3 is shown in Figure 3-21.

3.2.3 Assignment Processor. This processor runs ASSIGNMENTS/3 to match the input Number-of-People file with the Job Assignment Value file. This is the "network" program with a preprocessor to transform the Job Assignment Value file to the format required by the network program and a postprocessor to save the output from the network program for use by the Readiness and Report Processors. The organization of this processor is shown in Figure 3-22, and the runstream is in Figure 3-23.

3.2.4 Substitute Assignment Processor. This processor assigns excess personnel to unfilled jobs. This processor consists of two modules--one which assigns using grade substitutions and one which assigns using specialty substitutions. The processing in each module is similar to the other and to the Assignment Processor; the network module is duplicated in each. The flows for this processor are shown in Figures 3-24 and 3-25. The steps included in the Substitute Assignments Processor are:

a. Run SUBST-GRD1ST/4-1 (Figure 3-26) to perform grade substitutions or SUBST-MOS1ST/4-2 (Figure 3-27) to perform MOS substitutions.

b. Run SUBST-MOS2ND/4-2 (Figure 3-28) to perform MOS substitutions or SUBST-GRD2ND/4-1 (Figure 3-29) to peform grade substitutions.

3.2.5 Readiness Processor. The fifth processor applies the criteria from AR 220-1 to develop readiness measures. This processing is accomplished by the runstream READINESS/5. The flow is shown in Figure 3-30, and the runstream READINESS/5 is shown in Figure 3-31.

3.2.6 Report Processor. The last processor creates the formatted output reports. The flow is as shown in Figure 3-32, and the runstream REPORTS/6 is shown in Figure 3-33.

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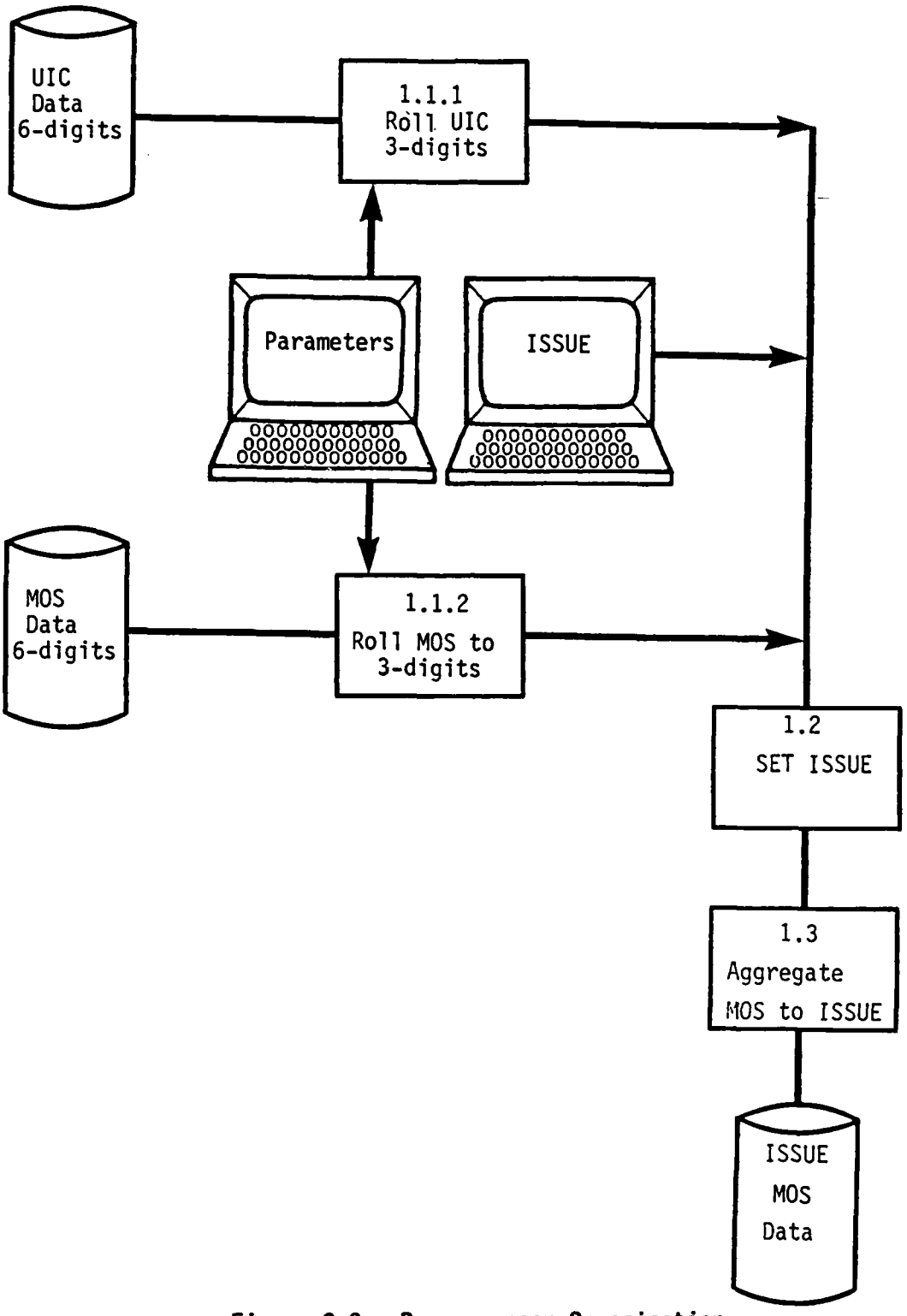

Figure 3-2. Preprocessor Organization

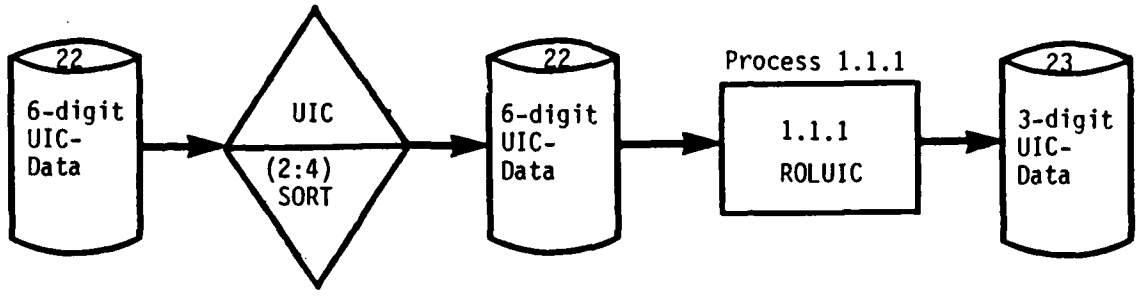

Figure 3-3. Flow of ROLUIC, Process 1.1.1

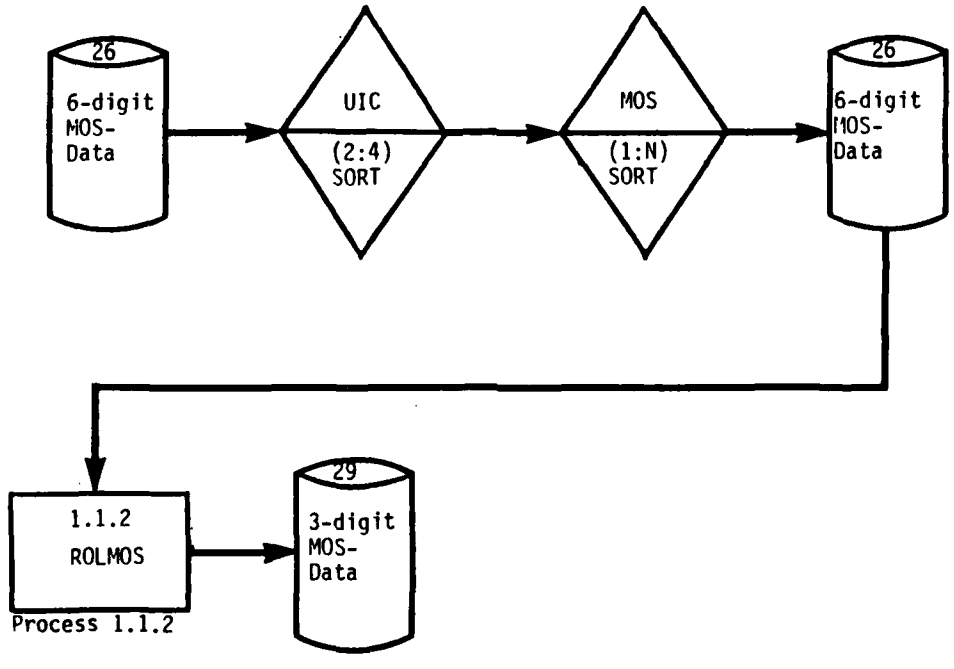

Figure 3-4. Flow of ROLMOS, Process 1.1.2

```
@ .
@ . * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
@ .
@ .  AGGREGATE THE UIC DATA (FROM "HEADER RECORD") TO 3-DIGIT LEVEL
@ .
@ .  THE RUNSTREAM FOR CREATING THE EXECUTABLE ELEMENT IS:
@ .                          08PRIM-MAP.3DIUIC/1-1-1
@ .
@ . * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
@ .
@ .   - - -   ASSIGN THE 6-DIGIT UIC FILE                    I N P U T
@ .
@ASG,A        PFUIC6DIG22.
@USE     22.,PFUIC6DIG22.
@ .
@ .   - - -   ASSIGN THE 3-DIGIT UIC FILE                  O U T P U T
@ .
@ASG,A        PFUIC3DIG23.
@ERS          PFUIC3DIG23.
@USE     23.,PFUIC3DIG23.
@ .
@ASG,A        PFPRIM-ABS.
@FREE         PFPRIM-ABS.
@XQT          PFPRIM-ABS.755ROLUIC/1-1-1
  1
@ .
@FREE         PFUIC6DIG22.
@FREE         PFUIC3DIG23.
```

Figure 3-5. ROLUIC/1-1-1 Runstream

```
@ .
@ .    FIRST SORT THE FILE ON THE FIRST 4 CHARACTERS OF THE MOS WITHIN
@ .
@ .    CHARACTER 2-4 OF UIC.  I.E.  UIC CHARACTER 2, 3 & 4 IS THE MAJOR
@ .
@ .    SORT AND CHAPACTER 1 THROUGH 4 OF MOS IS THE MINOR SORT
@ .
@ASG,A      PFINPUTMOS8.
@USE    8.,PFINPUTMOS8.
@ASG,T      XA.,///1000
@ASG,T      XB.,///11000
@ .
@SORT,ES
FILEIN=8.
FILEOUT=8.
KEY=3,3,S,A
KEY=19,4,S,A
RSZ=132
RECORD=270
@EOF
@ .
@FREE       XA.
@FREE       XB.
@FREE       PFINPUTMOS8.
@ .
@ .- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
@ASG,A      PFERROR13.                  OUTPUT - ERROR MESSAGES
@ERS        PFERROR13.
@ .
@ASG,A      PFPARAMET17.                INPUT  - PARAMETER FILE (MAIN)
@ .
@ASG,A      PFINPUTMOS8.                INPUT  - FIRST INPUT OF MOS DATA
@ .
@ASG,A       PFMOS-ENL-26.            . OUTPUT - USED TO TEMPORARILY HOLD ENLISTED
@ .
@ASG,A       PFMOS-OFF-27.            . OUTPUT - USED TO TEMPORARILY HOLD OFFICER
@ .
@ASG,A       PFMOS-WO-28.             . OUTPUT - USED TO TEMPORARILY HOLD WO
@ .
@ASG,A      PFMOSDATA29.                OUTPUT - ALL MOS DATA ROLLED TO 3-DIGIT
@ .                                              UIC LEVEL - MOS HAS ALSO BEEN
@ .                                              ROLLED AS SPECIFIED BY THE
@ .                                              PARAMETER FILE
@ .
@USE    13.,PFERROR13.
@USE    17.,PFPARAMET17.
@USE     8.,PFINPUTMOS8.
@USE    26.,PFMOS-ENL-26.
@USE    27.,PFMOS-OFF-27.
@USE    28.,PFMOS-WO-28.
@USE    29.,PFMOSDATA29.
@ .
@ .                ERASE THE ERROR-PRINT FILE AND THE INPUT PARAMETER FILE
@ .
@ERS                        13.
@ERS                        17.
@ .
@ .                MOVE THE PARAMETER FILE INTO FILE 17 FOR USE NOW
@ .
@ASG,A      PFPRIM-FILES.
@ED         PFPRIM-FILES.PARAMETER,17.
EXIT
@FREE       PFPRIM-FILES.
@ .
@ .
@ .                EXECUTE THE PROGRAMS - THIS PROGRAM HAS NO DEBUG FLAG
@ .                (NOTE:  THIS IS A SET OF TWO SEQUENTIAL PROGRAMS)
@ .                (       FILE 8 IS INPUT TO "SEPARATE", OUTPUT FILES)
@ .                (       ARE 26, 27, AND 28.  THESE ARE THE MAIN INPUT)
@ .                (       TO "ROLMOS" AND FILE 29 IS THE OUTPUT)
@ .
@ASG,A                 PFPRIM-ABS.
@ .
@FREE                  PFPRIM-ABS.
@XQT                   PFPRIM-ABS.755SEPARATE/1-1-2A
@ .
@ED,R                  PFERROR13.
P!
@ .
@ .
@XQT                   PFPRIM-ABS.755ROLMOS/1-1-2
@ .
@ .   AFTER MOVING TO MILPERCEN THE FOLLOWING STATEMENTS SHOULD BE
@ .   REPLACED WITH A SYM OF FILE 13 TO THE MILPERCEN PRINTER
@ .
@ED,R   13.
LNP!
EXI
@FREE       PFERROR17.
@FREE       PFPARAMET17.
@FREE       PFINPUTMOS8.
@FREE       PFMOS-ENL-26.
@FREE       PFMOS-OFF-27.
@FREE       PFMOS-WO-28.
@FREE       PFMOSDATA29.
```

Figure 3-6. ROLMOS/1-1-2 Runstream

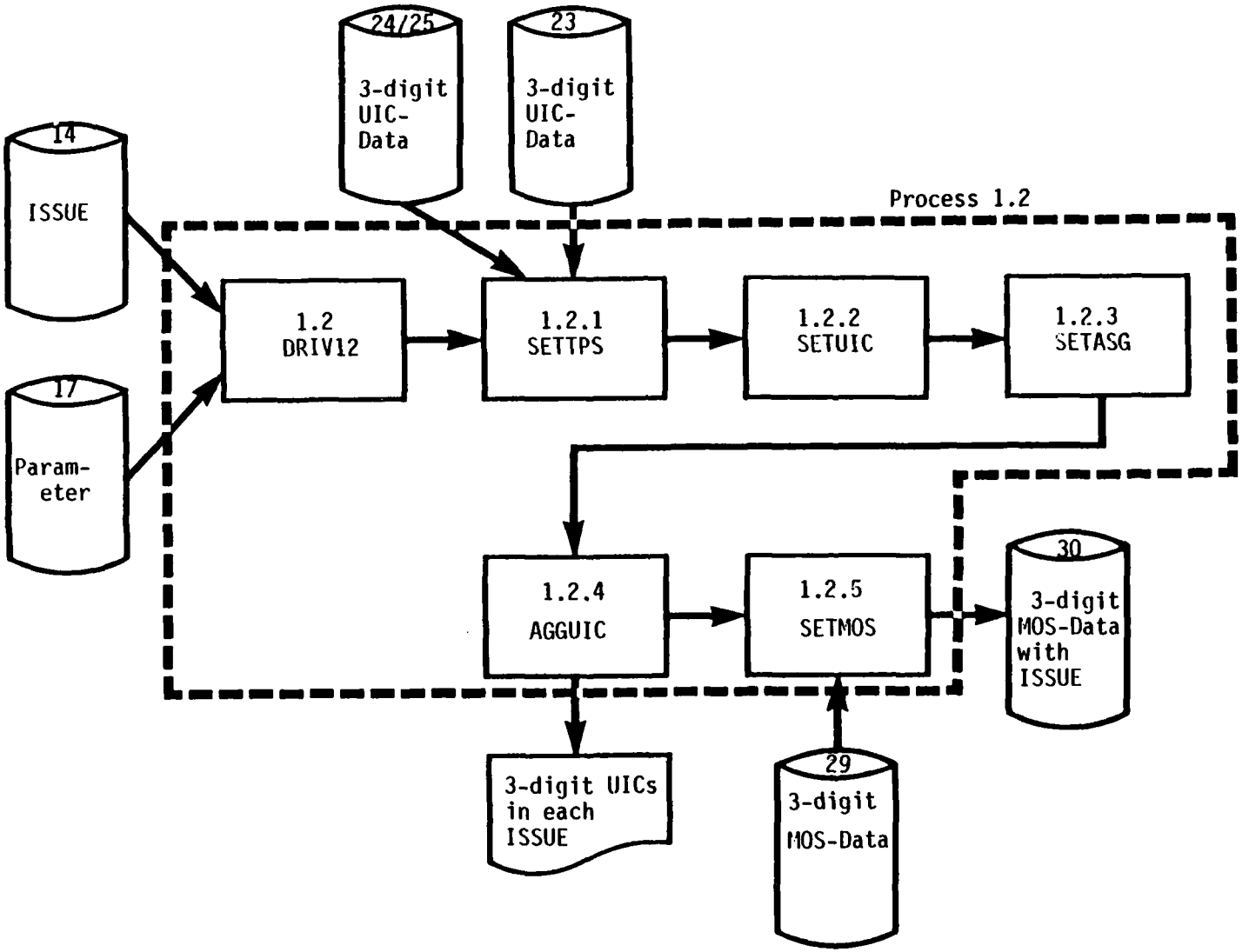

Figure 3-7. Flow of SETISSUE, Process 1.2

```
@ .     PRIOR RUNSTREAM:   ROLMOS/1-1-2
@ .
@ .      NEXT RUNSTREAM:   AGGMOS/1-3
@ .
@ .  - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
@ .
@ .     SORT THE MOS DATA FILE WHICH HAS BEEN ROLLED ON MOS TO 3-DIGIT LEVEL
@ .
@ .     SORT KEY IS THE 3-DIGIT UIC
@ .
@ASG,A      PFMOSDATA29.
@USE    29.,PFMOSDATA29.
@ASG,T       XA.,///1CDD
@ASG,T       XB.,///1CDDD
@SORT,ES
FILEIN=29.
FILEOUT=29.
KEY=2,3,S,A
KEY=13,9,S,A
RSZ=325,CHARACTERS
@ .                    SENSITIVITY TEST FILE IS SMALL - NOT NEEDED  RECORD=9D
@EOF
@FREE       XA.
@FREE       XB.
@FREE       29.
@ . - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
@ .
@ .     ASSIGN THE FILES NEEDED FOR "SETISSUE", PROCESSOR 1-2
@ .
@ . - - - - - - - - - - - - - - - - - -    ERASE THE ERROR PRINT FILE
@ASG,A      PFERROR13.
@ERS        PFERROR13.
@ . - - - - - - - - - - - - - - - - - -  MOVE THE LATEST COPY OF ISSUE
@ .                                       INTO THE FILE FOR USE
@ASG,A      PFISSUE14.
@ERS        PFISSUE14.
@ED       PFPRIM-FILES.ISSUE,PFISSUE14.
EXI
@ . - - - - - - - - - - - - - - - -  MOVE THE LATEST COPY OF PARAMETER
@ .                                     INTO THE FILE FOR USE
@ASG,A      PFPARAMET17.
@ERS        PFPARAMET17.
@ED       PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@ .                INPUT  -  23 IS THE UIC FILE ROLLED TO 3-DIGIT UIC
@ .                          THIS FILE WAS AN OUTPUT FILE FROM THE
@ .                          RUN  "ROLUIC/1-1-1"
@ASG,A PFUIC3DIG23.
@ .
@ .               OUTPUT  -  24 & 25 - WORK FILES USED FOR UIC WITH
@ .                                    ISSUE ADDED.  EITHER ONE MAY BE
@ .                                    THE FINAL OUTPUT.  THE PROGRAM
@ .                                    IDENTIFIES THE FINAL OUTPUT FILE.
@ASG,A PFUICDATA24.
@ASG,A PFUICDATA25.
@ .
@ .              INPUT - 29 - THE MOS DATA ROLLED TO 3-DIGIT UIC AND TO
@ .                           THE NUMBER OF CHARACTERS OF MOS SPECIFIED
@ .                           IN THE PARAMETER FILE (17)
@ASG,A PFMOSDATA29.
@ .
@ .             OUTPUT  -  30  - THE MOS DATA WITH ISSUE CODE ADDED
@ .                                THIS FILE MUST BE SORTED ON ISSUE AND
@ .                                MOS PRIOR TO RUNNING THE NEXT PROCESSOR
@ASG,A PFMOSDATA30.
@ . - - - - - - - - -  ATTACH LOGICAL UNIT NUMBERS (LUN) TO THE FILES
@USE    13.,PFERROR13.
@USE    14.,PFISSUE14.
@USE    23.,PFUIC3DIG23.
@USE    24.,PFUICDATA24.
@USE    25.,PFUICDATA25.
@USE    29.,PFMOSDATA29.
@USE    30.,PFMOSDATA30.
@ .
@ .  - - - - - - - - - -    ASSIGN SOME TEMPORARY SCRATCH FILES
@ .
@ASG,T       XA.,///2CD
@ASG,T       XB.,///16DD
@ .
@FREE          PFPRIM-ABS.
@XQT,F    PFPRIM-ABS.755SETISSUE/1-2
 1-D E B U G    F L A G
@ED,R 13.
LNP!
EXI
@SYM,U     PFERROR13.
@FREE      PFERROR13.
@FREE      PFISSUE14.
@FREE      PFPARAMET17.
@FREE      PFUIC3DIG23.
@FREE      PFUICDATA24.
@FREE      PFUICDATA25.
@FREE      PFMOSDATA29.
@FREE      PFMOSDATA30.
@FREE    XA.
@FREE    XB.
```

Figure 3-8. SETISSUE/1-2 Runstream

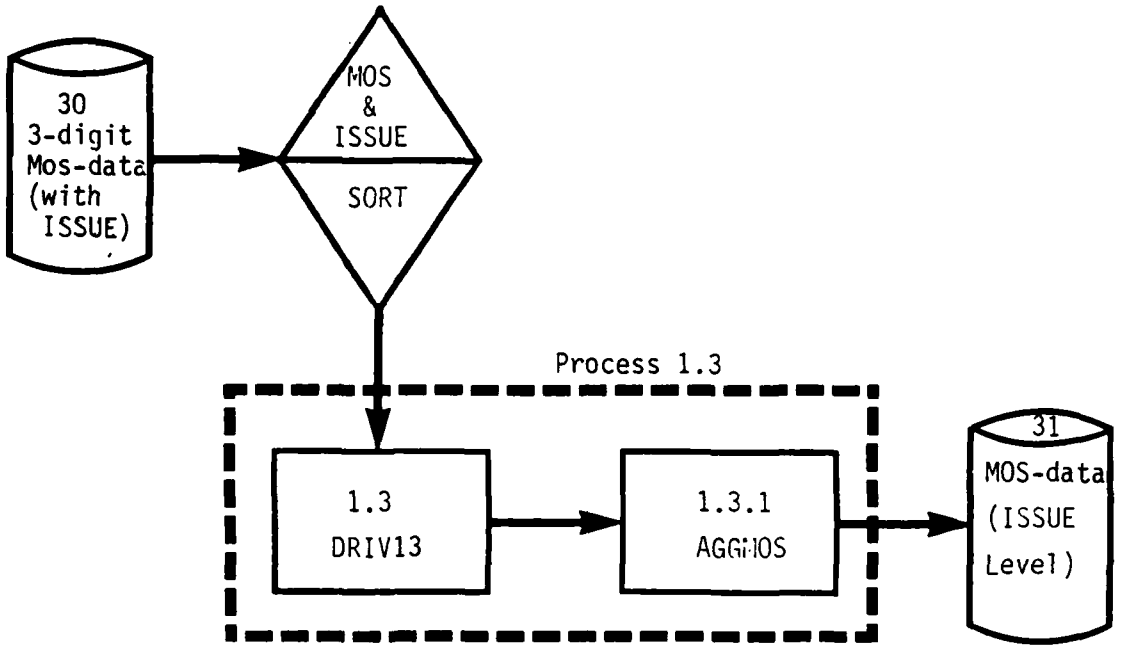

Figure 3-9. Flow of AGGMOS, Process 1.3

```
@ . - - - - - - - - - - - - - - - - SORT THE INPUT MOS FILE BY ISSUE AND MOS
@ .
@ASG,A      PFMOSDATA30.
@ .
@ASG,T   XA.,///1000
@ASG,T   XB.,///11000
@SORT,ES                                   *** FILE MUST BE SORTED! ***
FILEIN=PFMOSDATA30.
FILEOUT=PFMOSDATA30.
KEY=7,4,S,A
KEY=13,9,S,A
@EOF
@ .
@FREE       PFMOSDATA30.
@FREE XA.
@FREE XB.
@
@ .
@ . - - - - - - - - - - - - - - - - ASSIGN THE ERROR PRINT FILE
@ .
@ASG,AX     PFERROR13.
@ERS        PFERROR13.
@ .
@ . - - - - - - - - - - - - - - - - ASSIGN THE PARAMETER FILE
@ .
@ASG,A      PFPARAMET17.
@ED,R       PFPRIM-FILES.PARAMETER,PFPARAMET17.
@ .
@ . - - - - - - - - - - - - - - - - INPUT - MOS DATA AT 3-DIGIT UIC LEVEL
@ .
@ASG,A      PFMOSDATA30.
@ .
@ . - - - - - - - - - - - - - - - - OUTPUT - MOS DATA AGGREGATED TO ISSUE LEVEL
@ .
@ASG,A      PFMOSISSUE31.
@ .
@ . - - - - - - - - - - - - - - - - OUTPUT - ISSUE AGGREGATES & GRADE AGGREGATES
@ .
@ASG,A      PFGRASTREN85.
@ .
@ . - - - - - - - - - - - - - - - - OUTPUT - MOS AGGREGATES BY ISSUE
@ .
@ASG,A      PFMOSSTREN86.
@ .
@USE    13.,PFERROR13.
@USE    17.,PFPARAMET17.
@USE    30.,PFMOSDATA30.
@USE    31.,PFMOSISSUE31.
@USE    85.,PFGRASTREN85.
@USE    86.,PFMOSSTREN86.
@XQT,F      PFPRIM-ABS.755AGGMOS/1-3
 1-D E B U G    F L A G
@ED,R 13.
LNP!
EXI
@FREE       PFMOSDATA30.
@FREE       PFERROR-S-13.
@FREE       PFPARAMET17.
@FREE       PFMOSISSUE31.
@FREE       PFGRASTREN85.
@FREE       PFMOSSTREN86.
```

Figure 3-10. AGGMOS/1-3 Runstream

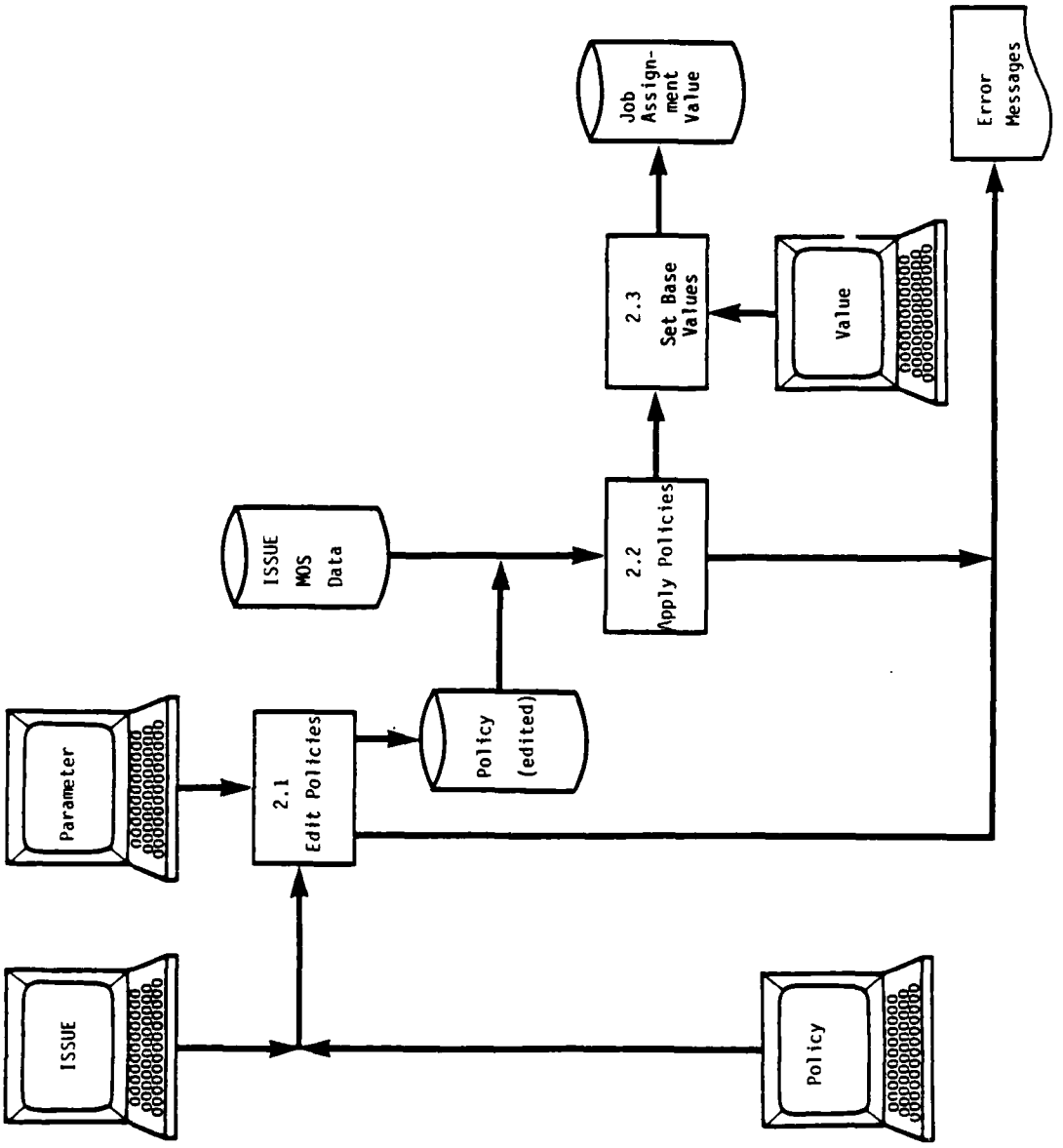

Figure 3-11. Policy Processor Organization

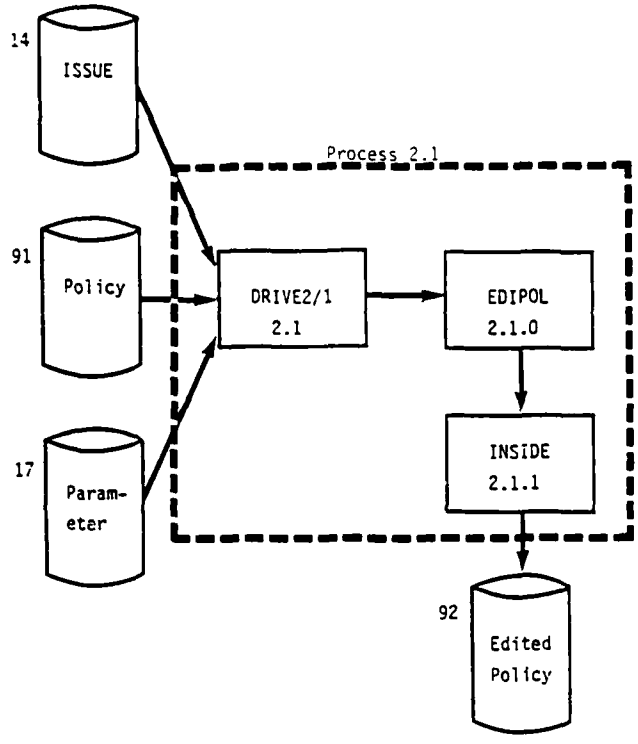

Figure 3-12. Flow of EDIT-POLICY, Process 2.1

```
@HDG,U  EDIPOL/2-1      E D I T   P O L I C Y   F I L E
@PFPRIM-ABS.TITLE,D    EDIT,POLICY,,25-$1
@PFPRIM-ABS.TITLE,O    EDIT,POLICY,,25-$1
@.                          - - - - - - ASSIGN THE ERROR PRINT FILE
@ASG,A       PFERROR13.
@ERS         PFERROR13.
@.                          - - - - - - - ASSIGN THE ISSUE FILE
@ASG,A       PFISSUE14.
@ED          PFPRIM-FILES.ISSUE,PFISSUE14.
EXI
@.                          - - - - - - - ASSIGN THE PARAMETER FILE
@ASG,A       PFPARAMET17.
@ED          PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@.                          - - - - - - - ASSIGN THE POLICY FILE
@ASG,A       PFPOLICY91.
@ED          PFPRIM-FILES.POLICY,PFPOLICY91.
EXI
@.                          - - - - - - - ASSIGN THE OUTPUT POLICY FILE
@ASG,A       PFEDIPOL92.
@USE          13.,PFERROR13.
@USE          14.,PFISSUE14.
@USE          17.,PFPARAMET17.
@USE          91.,PFPOLICY91.
@USE          92.,PFEDIPOL92.
@.                          - - - - - - - ASSIGN TEMPORARY FILES FOR SORTING POLICY FILE
@ASG,T          XA.,///100
@ASG,T          XB.,///100
@XQT         PFPRIM-ABS,755FDIPOL
 2-D E B U G   F L A G
@ED,R 13.
LNP!
EXI
@ED,R 92.
LNP!
EXI
@FREE 13.
@FREE 14.
@FREE 17.
@FREE 91.
@FREE 92.
@FREE XA.
@FREE XB.
```

Figure 3-13. Edit/Policy/2-1 Runstream

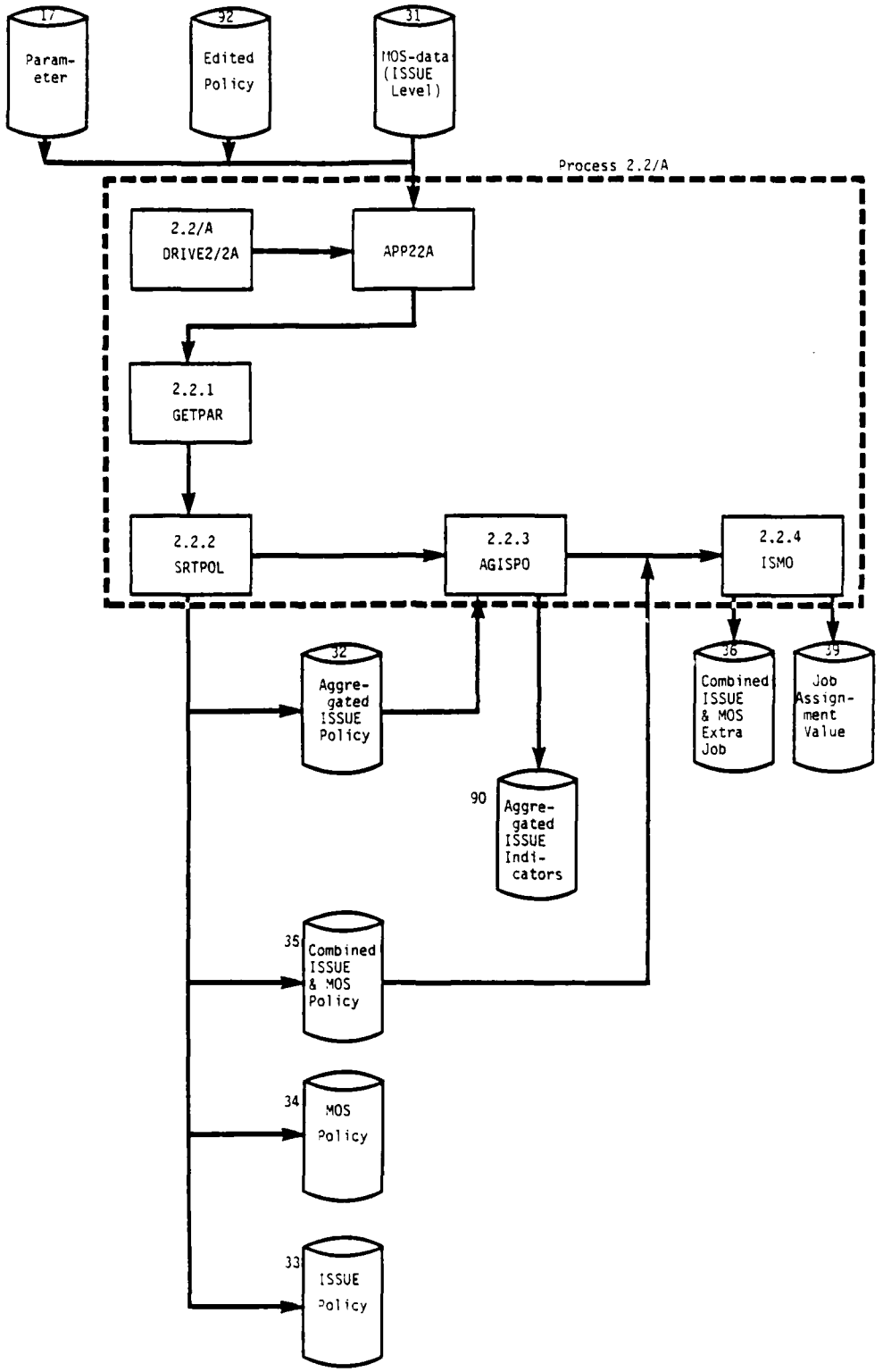

Figure 3-14. Flow of APPLY-POLICY, Process 2.2.A

```
@HDG  APPLYPOLICY/2-2-A     APPLY POLICIES TO MOS DATA, PART A
@PFPRIM-ABS.TITLE,D    APPLY,POLICY,,2-2/A
@PFPRIM-ABS.TITLE,D    APPLY,POLICY,,2-2/A
@ .
@ .    T H I S    I S    P R O C E S S    2 - 2 - A    (PART A OF APPLY POLICY)
@ .
@ .  THIS RUNSTREAM IS FOR PART A OF THE APPLY POLICY PROCESS (2.2/A)
@ .
@ .  APPLY POLICY PROCESS WAS BROKEN INTO SEVERAL PARTS TO ALLOW THE
@ .  USER MORE FLEXIBILITY.  WHEN ERRORS ARE FOUND BY ONE OF THE LATER
@ .  SUBROUTINES, IT IS NOT NECESSARILY REQUIRED THAT ALL PARTS ARE
@ .  REPEATED.  WHEN THE POLICY FILE IS CHANGED, AS A RESPONSE TO ERRORS
@ .  IDENTIFIED AT PART B, THE EDIT POLICY MODULE (PROCESS 2.1) MUST
@ .  BE RERUN.  THE USER CAN DO SO IMMEDIATELY RATHER THAN WAIT FOR ALL THE
@ .  REST OF THE PROCESSOR TO RUN TO COMPLETION.
@ .
@ . - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
@ .
@ . - - - - - - - - - - - - - - - - - - S O R T   M O S   D A T A   O N :
@ .
@ .                                                (1)  I S S U E
@ .                                                (2)  M O S
@ .
@ .                                          THIS FILE IS AN OUTPUT FROM 1-3
@ .
@ASG,A         PFMOSISSUE31.
@ . .
@ASG,T      XA.,///400
@ASG,T      XB.,///2800
@ . .
@SORT,ES
FILEIN=PFMOSISSUE31.
FILEOUT=PFMOSISSUE31.
KEY=7,4,S,A
KEY=13,9,S,A
@EOF
@ . .
@FREE       PFMOSISSUE31.
@FREE       XA.
@FREE       XB.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE ERROR OUTPUT PRINT FILE
@ .
@ASG,A      PFERROR13.
@ERS        PFERROR13.
@ . - - - - - - - - - - - - - - - - - - - - ASSIGN THE PARAMETER FILE
@ASG,A      PFPARAMET17.
@ED         PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@ . - - - - - - - - - - - - - - - - - - - - ASSIGN THE POLICY FILE  - - -  INPUT
@ASG,A      PFEDIPOL92.
                                          THIS FILE IS AN OUTPUT FROM 2-1
@ .
@ . - - - - - - - - - - - - - - - - - - - - ASSIGN THE INPUT JOB FILE - - - - INPUT
@ .                                       THIS FILE IS AN OUTPUT FROM 1-3 AND IS
@ .                                       SORTED NOW ON ISSUE AND MOS
@ .
@ASG,A      PFMOSISSUE31.
@ .
@ . - - - - - - - - - - - - - - - - - - - - ASSIGN THE EXTRA JOB FILE - - - - OUTPUT
@ASG,A      PFISMOEX36.
@ERS        PFISMOEX36.
@ .
@ . - - - - - - - - - - - - - - - - - - - - ASSIGN THE OUTPUT POLICY FILES
@ .
@ASG,A      PFAGISPO32.
@ASG,A      PFISSPOL33.
@ASG,A      PFMOSPOL34.
@ASG,A      PFISMOPO35.
@ASG,A      PFAGISIN090.
@ERS        PFAGISIN090.
@ .
@ . - - - - - - - - - - - - - - - - - - - - ASSIGN THE OUTPUT JAV FILE - - - - OUTPUT
@ASG,A      PFJOBASVAL39.
@ERS        PFJOBASVAL39.
@ .
@USE    17.,PFERROR13.
@USE    17.,PFPARAMET17.
@USE    31.,PFMOSISSUE31.
@USE    32.,PFAGISPO32.
@USE    33.,PFISSPOL33.
@USE    34.,PFMOSPOL34.
@USE    35.,PFISMOPO35.
@USE    36.,PFISMOEX36.
@USE    39.,PFJOBASVAL39.
@USE    90.,PFAGISIN090.
@USE    92.,PFEDIPOL92.
@ .
@ . - - - - - - - - - - - - - - - - - - - - ASSIGN TEMPORARY FILE FOR POLICY SORT
@ .
@ASG,T      XA.,///20
@ASG,T      XB.,///140
@ .
@XQT,F       PFPRIM-ABS.755APPPOL/2-2-A
 2-0 E B U G    F L A G
@ED,A        PFERROR13.
LNP
EXI
@FREE       13.
@FREE       17.
@FREE       31.
@FREE       32.
@FREE       33.
@FREE       34.
@FREE       35.
@FREE       36.
@FREE       39.
@FREE       90.
@FREE       92.
@FREE       XA.
@FREE       XB.
```

Figure 3-15. APPLY-POLICY/2-2-A Runstream

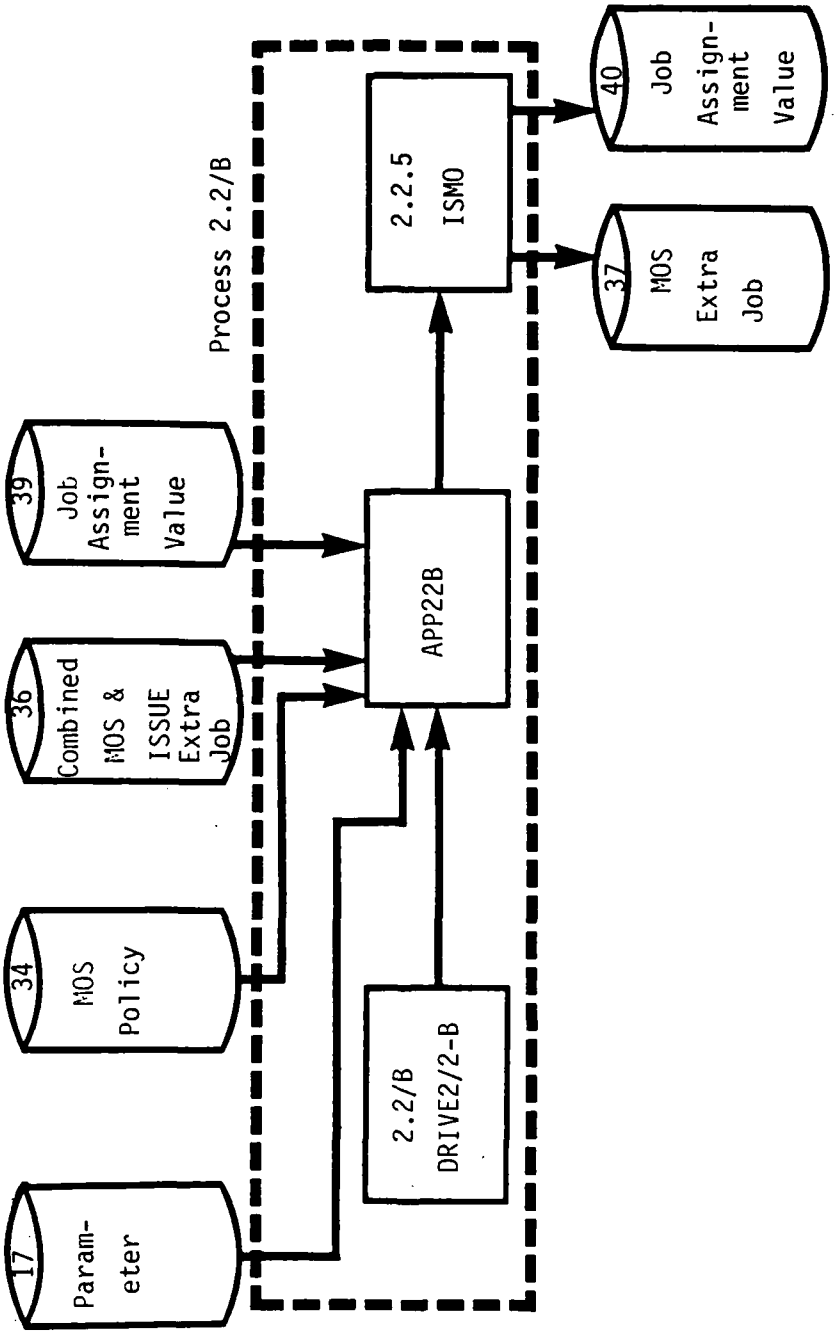

Figure 3-16. Flow of APPLY-POLICY, Process 2.2.B

```
@MOG   APPLYPOLICY/2-2-B    APPLY POLICIES TO MOS DATA, PART B
@.
@PFPRIM-ABS.TITLE,D APPLY,POLICY,,2-2-B
@PFPRIM-ABS.TITLE,D APPLY,POLICY,,2-2-B
@.    T H I S   I S   P R O C E S S   2 . 2 . B  (PART B OF APPLY POLICY)
@.
@.  THIS RUNSTREAM IS FOR PART B OF THE APPLY POLICY PROCESS (2.2/B)
@.
@.  APPLY POLICY PROCESS WAS BROKEN INTO SEVERAL PARTS TO ALLOW THE
@.  USER MORE FLEXIBILITY.  WHEN ERRORS ARE FOUND BY ONE OF THE LATER
@.  SUBROUTINES, IT IS NOT NECESSARILY REQUIRED THAT ALL PARTS ARE
@.  REPEATED.  WHEN THE POLICY FILE IS CHANGED, AS A RESPONSE TO ERRORS
@.  IDENTIFIED BY PART B, THE EDIT POLICY MODULE (PROCESS 2.1) MUST
@.  BE RERUN.  THEN, AS LONG AS CHANGES ARE NOT MADE TO THE TYPE
@.  OF POLICIES USED IN PART A, THE USER MAY THEN RETURN TO PART B
@.  TO CONTINUE PROCESSING.
@.
@. - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
@.
@. - - - - - - - - - - - - - - - - - S O R T   M O S   D A T A   O N :
@.                                                M O S   O N L Y
@.                                          THIS FILE IS AN OUTPUT FROM 2-2A
@.
@ASG,A         PFISMOEX36.
@.
@ASG,T      XA.,///400
@ASG,T      XB.,///2800
@.
@SORT,ES
FILEIN=PFISMOEX36.
FILEOUT=PFISMOEX36.
KEY=13,9,S,A
@EOF
@.
@FREE       PFISMOEX36.
@FREE       XA.
@FREE       XB.
@.
@. - - - - - - - - - - - - - - - - - - ASSIGN THE ERROR OUTPUT PRINT FILE
@.
@ASG,A      PFERROR13.
@ERS        PFERROR13.
@. - - - - - - - - - - - - - - - - - - ASSIGN THE PARAMETER FILE
@ASG,A      PFPARAMET17.
@ED         PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@. - - - - - - - - - - - - - - - - - - ASSIGN THE MOS POLICY FILE - - - -  INPUT
@.                                    THIS FILE IS AN OUTPUT FROM 2-2A
@ASG,A      PFMOSPOL34.
@.
@. - - - - - - - - - - - - - - - - - - ASSIGN THE INPUT JOB FILE - - - - INPUT
@.                                    THIS FILE IS AN OUTPUT FROM 2-2A
@ASG,A      PFISMOEX36.
@.
@. - - - - - - - - - - - - - - - - - - ASSIGN THE EXTRA JOB FILE - - - - OUTPUT
@ASG,A      PFMOSEXT37.
@ERS        PFMOSEXT37.
@.
@. - - - - - - - - - - - - - - - - - - ASSIGN THE INPUT JAV FILE - - - - INPUT
@.                                    THIS FILE IS AN OUTPUT FROM 2-2A
@ASG,A      PFJOBASVAL39.
@.
@. - - - - - - - - - - - - - - - - - - ASSIGN THE OUTPUT JAV FILE - - - - OUTPUT
@ASG,A      PFJOBASVAL40.
@ERS        PFJOBASVAL40.
@.
@USE    13.,PFERROR13.
@USE    17.,PFPARAMET17.
@USE    34.,PFMOSPOL34.
@USE    36.,PFISMOEX36.
@USE    37.,PFMOSEXT37.
@USE    39.,PFJOBASVAL39.
@USE    40.,PFJOBASVAL40.
@.
@. - - - - - - - - - - - - - - - - - - ASSIGN TEMPORARY FILES FOR POLICY SORT
@.
@ASG,T      XA.,///10
@ASG,T      XB.,///70
@.
@XQT,F      PFPRIM-ABS.755APPPOL/2-2-B
 2-D E B U G    F L A G
@ED,R       PFERROR13.
LNP!
EXI
@FREE       13.
@FREE       17.
@FREE       34.
@FREE       36.
@FREE       37.
@FREE       39.
@FREE       40.
@FREE       xA.
@FREE       xB.
```

Figure 3-17. APPLY-POLICY/2-2-B Runstream

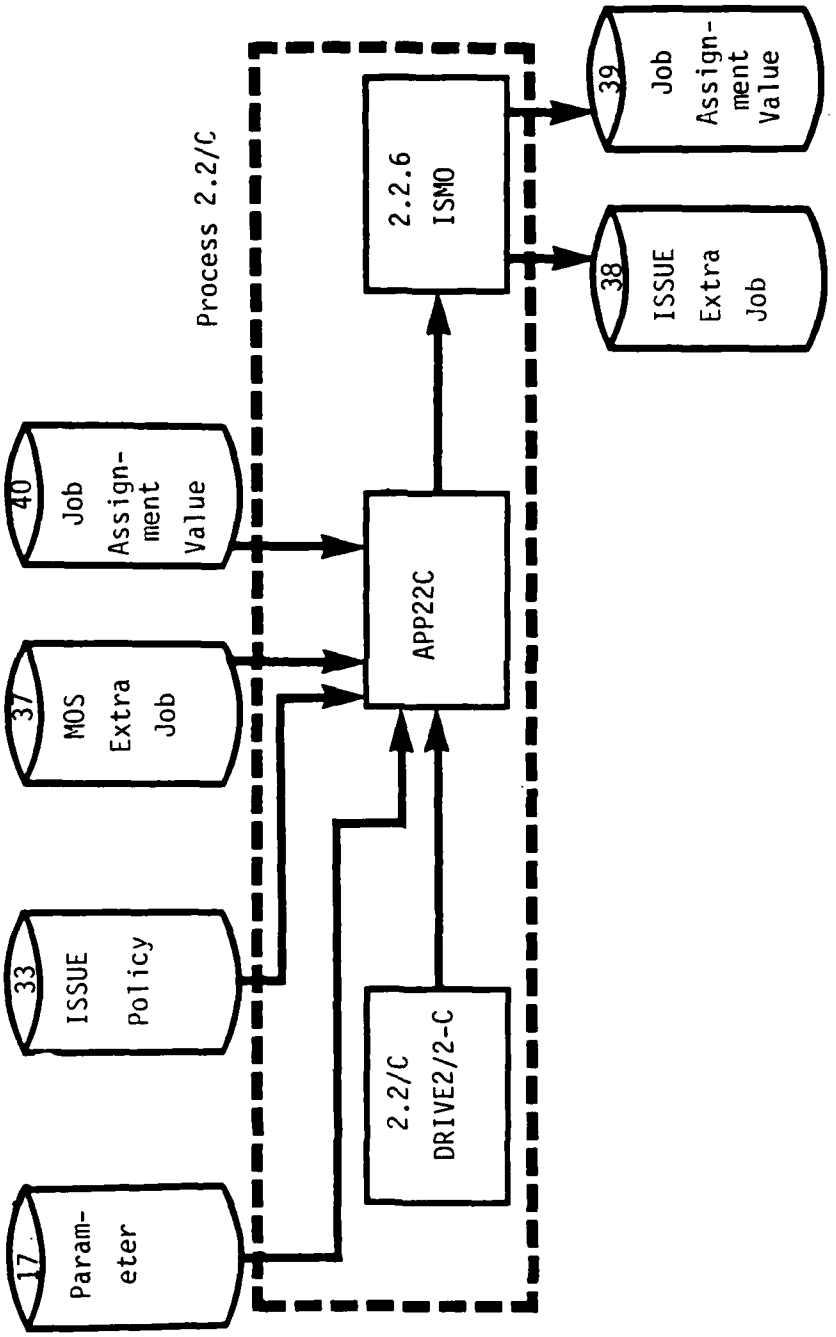

Figure 3-18. Flow of APPLY-POLICY, Process 2.2.C

```
@NOG    APPLYPOLICY/2-2-C     APPLY POLICIES TO MOS DATA, PART C
@PFPRIM-ABS.TITLE,D  APPLY,POLICY,,2-2-C
@PFPRIM-APS.TITLE,D  APPLY,POLICY,,2-2-C
@ .
@ .    T H I S    I S    P R O C E S S    2 . 2 . 6  (PART C OF APPLY POLICY)
@ .
@ .  THIS RUNSTREAM IS FOR PART C OF THE APPLY POLICY PROCESS (2-2-C)
@ .
@ .  APPLY POLICY PROCESS WAS BROKEN INTO SEVERAL PARTS TO ALLOW THE
@ .  USER MORE FLEXIBILITY.  WHEN ERRORS ARE FOUND BY ONE OF THE LATER
@ .  SUBROUTINES, IT IS NOT NECESSARILY REQUIRED THAT ALL PARTS ARE
@ .  REPEATED.  WHEN THE POLICY FILE IS CHANGED, AS A RESPONSE TO ERRORS
@ .  IDENTIFIED BY PART C, THE EDIT POLICY MODULE (PROCESS 2.1) MUST
@ .  BE RERUN.  THEN, AS LONG AS CHANGES ARE NOT MADE TO THE TYPE
@ .  OF POLICIES USED IN PART A OR B, THE USER MAY THEN RETURN TO PART C
@ .  TO CONTINUE PROCESSING.
@ . - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
@ .
@ . - - - - - - - - - - - - - - - - - S O R T   M O S   D A T A   O N :
@ .                                          I S S U E   O N L Y
@ .                                     THIS FILE IS AN OUTPUT FROM 2-2B
@ .
@ASG,A         PFMOSEXT37.
@ .
@ASG,T      XA:,///400
@ASG,T      XB:,///2800
@ .
@SORT,ES
FILEIN=PFMOSEXT37.
FILEOUT=PFMOSEXT37.
KEY=1,4,S,A
@EOF
@ .
@FREE       PFMOSEXT37.
@FREE       XA.
@FREE       XB.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE ERROR OUTPUT PRINT FILE
@ .
@ASG,A       PFERROR13.
@ERS         PFERROR13.
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE PARAMETER FILE
@ASG,A       PFPARAMET17.
@ED          PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE ISSUE POLICY FILE - - - - INPUT
@ .                                    THIS FILE IS AN OUTPUT FROM 2-2A
@ASG,A       PFISSPOL33.
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE INPUT JOB FILE - - - - INPUT
@ .                                    THIS FILE IS AN OUTPUT FROM 2-2B
@ .                                    AND SHOULD HAVE BEEN SORTED ON ISSUE
@ .                                    BY THE TIME THIS POINT IS REACHED
@ASG,A       PFMOSEXT37.
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE EXTRA JOB FILE - - - - OUTPUT
@ASG,A       PFISSEXT38.
@ERS         PFISSEXT38.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE INPUT JAV FILE - - - - INPUT
@ .                                    THIS FILE IS AN OUTPUT FROM 2-2B
@ASG,A       PFJOBASVAL40.
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE OUTPUT JAV FILE - - - - OUTPUT
@ASG,A       PFJOBASVAL39.
@ERS         PFJOBASVAL39.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE AGGREGATED INDICATOR FILE
@ .                                    THIS FILE IS AN OUTPUT FROM 2-2A
@ASG,A       PFAGISIND90.
@ .
@ . - - - - - - - - - - - - - - - - - - DEFINE THE FILE NUMBERS
@ .
@USE     13.,PFERROR13.
@USE     17.,PFPARAMET17.
@USE     33.,PFISSPOL33.
@USE     37.,PFMOSEXT37.
@USE     38.,PFISSEXT38.
@USE     39.,PFJOBASVAL39.
@USE     40.,PFJOBASVAL40.
@USE     90.,PFAGISIND90.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN TEMPORARY FILES FOR POLICY SORT
@ .
@ASG,T       XA.,///10
@ASG,T       XB.,///70
@ .
@XQT,F       PFPRIM-ABS.755APPPOL/2-2-C
 2-C D E B U G     F L A G
@ED,A        PFERROR13.
LNP'
EXI
@FREE       13.
@FREE       17.
@FREE       33.
@FREE       37.
@FREE       38.
@FREE       39.
@FREE       40.
@FREE       90.
@FREE       XA.
@FREE       XB.
```

Figure 3-19. APPLY-POLICY/2-2-C Runstream

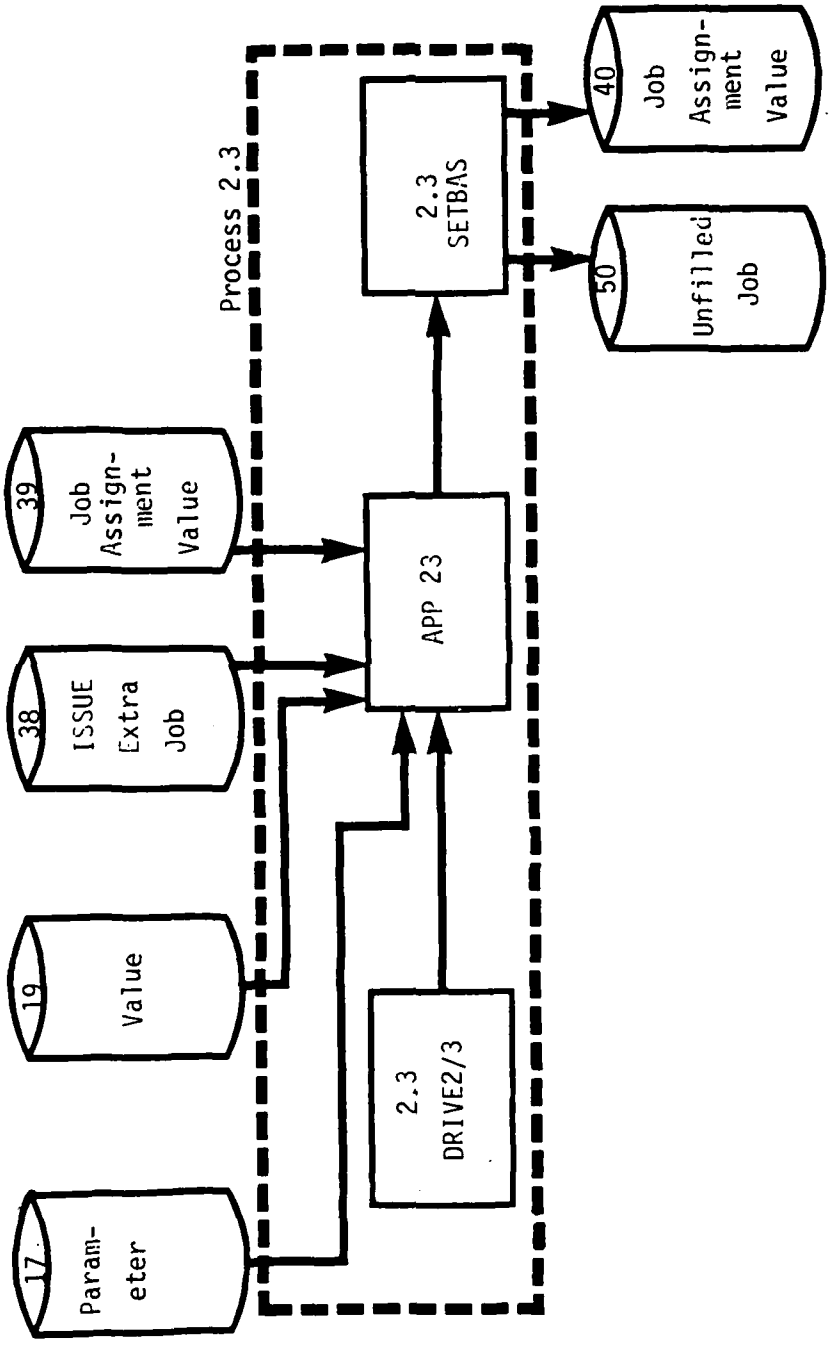

Figure 3-20. Flow of SET-BASEVALU, Process 2.3

```
@HDG    SET-BASEVALU/2-3          SET BASE VALUES IN REST OF MOS DATA
@PFPRIM-ABS.TITLE  SET$BASE,VALUES,,2-3
@PFPRIM-APS.TITLE  SET$BASE,VALUES,,2-3
@ .
@ .   T H I S   I S   P R O C E S S   2 . 3       (SET BASE VALUES)
@ .
@ .  THIS RUNSTREAM IS FOR SET BASE VALUE MINIMUMS, MAXIMUMS AND VALUES
@ .              P R O C E S S   2 - 3
@ .
@ .  APPLY POLICY PROCESS WAS BROKEN INTO SEVERAL PARTS TO ALLOW THE
@ .  USER MORE FLEXIBILITY.  WHEN ERRORS ARE FOUND BY ONE OF THE LATER
@ .  SUBROUTINES, IT IS NOT NECESSARILY REQUIRED THAT ALL PARTS ARE
@ .  REPEATED.  WHEN ERRORS ARE FOUND ONLY BY THE SET BASE VALUE PROCESSOR
@ .  THE USER MAY CORRECT THE VALUE ELEMENT OF THE PFPRIM-FILES FILE AND RERUN
@ .  ONLY THIS PORTION OF THE APPLY POLICY PROCESSOR.
@ .
@ . - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
@ .
@ . - - - - - - - - - - - - - - - - - S O R T   M O S   D A T A   O N :
@ .                                                 I S S U E   O N L Y
@ .
@ .                                  THIS FILE IS AN OUTPUT FROM 2-2-C
@ .
@ASG,A        PFISSEXT38.
@ .
@ASG,T     XA.,///400
@ASG,T     XB.,///2800
@ .
@SORT,ES
FILEIN=PFISSEXT38.
FILEOUT=PFISSEXT38.
KEY=1,4,S,A
@EOF
@ .
@FREE      PFISSEXT38.
@FREE      XA.
@FREE      XB.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE ERROR OUTPUT PRINT FILE
@ .
@ASG,A     PFERROR13.
@ERS       PFERROR13.
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE PARAMETER FILE
@ASG,A     PFPARAMET17.
@ED        PFPRIM-FILES.PARAMETER,PFPARAMET17.
CXI
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE VALUE FILE  - - -  INPUT
@ASG,A     PFVALUE19.
@ED  PFPRIM-FILES.VALUE,PFVALUE19.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE INPUT JOB FILE - - - - INPUT
@ .                                    THIS FILE IS AN OUTPUT FROM 2-2-C AND IS
@ .                                    SORTED NOW ON ISSUE
@ASG,A     PFISSEXT38.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE UNFILLED JOB FILE - - - - OUTPUT
@ASG,A     PFUNFILLED50.
@ .
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE INPUT JAV FILE - - - -
@ .
@ASG,A     PFJOBASVAL39.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN THE OUTPUT JAV FILE - - - - OUTPUT
@ASG,A     PFJOBASVAL40.
@ERS       PFJOBASVAL40.
@ .
@USE    13.,PFERROR13.
@USE    17.,PFPARAMET17.
@USE    19.,PFVALUE19.
@USE    38.,PFISSEXT38.
@USE    39.,PFJOBASVAL39.
@USE    40.,PFJOBASVAL40.
@USE    50.,PFUNFILLED50.
@ERS    50.
@ .
@ . - - - - - - - - - - - - - - - - - - ASSIGN TEMPORARY FILES FOR VALUE FILE SORT
@ .
@ASG,T     XA.,///10
@ASG,T     XB.,///70
@ .
@XQT,F     PFPRIM-ABS.755SETBASE/2-3
 1-D E B U G    F L A G
@ED,R      PFERROR13.
LNP!
EXI
@ED,R   50.
LNP!
@FREE      13.
@FREE      17.
@FREE      19.
@FREE      38.
@FREE      39.
@FREE      40.
@FREE      51.
@FREE      XA.
@FREE      XB.
```

Figure 3-21. SET-BASEVALU/2-3 Runstream

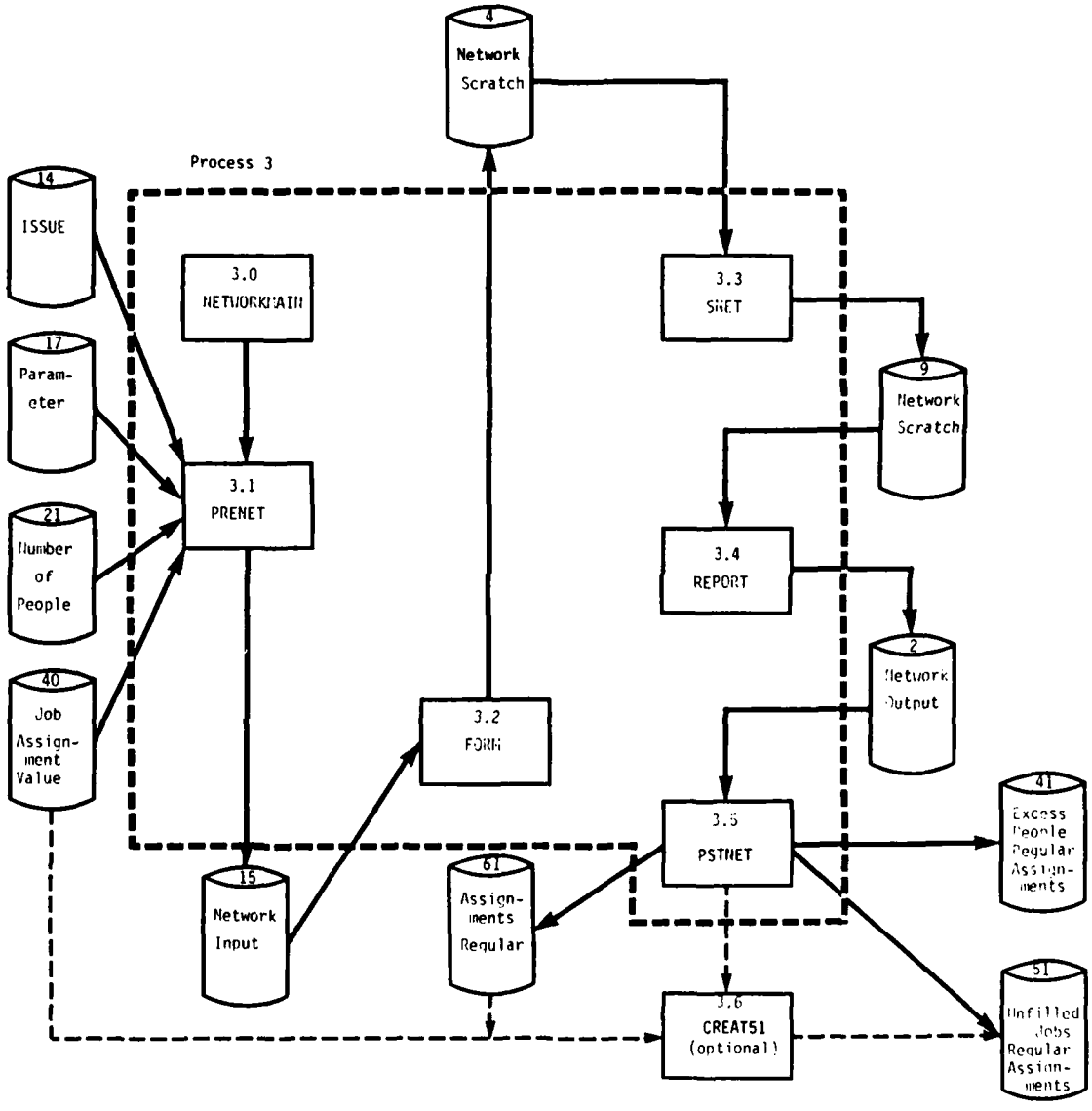

Figure 3-22. Organization and Flow of Assignment Processor

```
@MOG   ASSIGNMENT/3       ASSIGNMENT PROCESSOR 3 0
@ASG,A          PFPRIM-ABS.
@.
@ASG,A        PFPRIM-FILES.
@ASG,A        PFISSUE14.
@ED,U         PFPRIM-FILES.ISSUE, PFISSUE14.
EXI
@ASG,A        PFNETIN15.
@ASG,A        PFPARAMET17.
@ED           PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@ASG,A        PFNUMBPEOP21.
@ASG,A        PFJOBASVAL40.
@ASG,A        PFEXCPEOP41,///5000
@ASG,A        PFUNFILLED51,///5000
@ASG,A        PFASSIGNED61,///5000
@ASG,T        PFNETOUT2,///5000
@ASG,T        PFNETWORK3,///5000
@ASG,T        PFNETWORK4,///5000
@ASG,T        PFNETWORK8,///5000
@ASG,T        PFNETWORK9,///5000
@
@.          - - - - - - - - - - - -       SORT THE INPUT FILES
@ASG,T    XA.,///2000
@ASG,T    XB.,///11000
@SORT,ES
FILEIN=PFNUMBPEOP21.
FILEOUT=PFNUMBPEOP21.            . SORTED BY MOS
KEY=9,9,S,A
@END
@SORT,ES
FILEIN=PFJOBASVAL40.
FILEOUT=PFJOBASVAL40.            . SORTED BY MOS
KEY=10,9,S,A
KEY=1,8,S,A                      . SORTED BY DEMAND NAME
@END
@FREE    XA.
@FREE    XB.
@.            - - - - - - - - - - - -   ASSIGN REST OF FILES
@USE       2.,PFNETOUT2.
@USE       3.,PFNETWORK3.
@USE       4.,PFNETWORK4.
@USE       9.,PFNETWORK9.
@USE      10.,PFISSUE14.
@USE      15.,PFNETIN15.
@USE      17.,PFPARAMET17.
@USE      21.,PFNUMBPEOP21.
@USE      40.,PFJOBASVAL40.
@USE      41.,PFEXCPEOP41.
@ERS      41.
@USE      51.,PFUNFILLED51.
@ERS      51.
@USE      61.,PFASSIGNED61.
@ERS      61.
@XQT              PFPRIM-ABS.755ASSIGN/3
@ED,R 41.
LNP!
@ASG,A  PFUNFILLED50.
@ED,U 51.
ADD PFUNFILLED50.
LNP!
@ED,R 61.
LNP!
OMI
@.          - - - - - - -                 SORT THE OUTPUT FILES
@ASG,T XA.,///1100
@ASG,T XB.,///12000
@SORT,ES
FILEIN=PFEXCPEOP41.
FILEOUT=PFEXCPEOP41.
KEY=1,9,S,A                  . SORTED BY MOS
@END
@ED,U     PFUNFILLED51.
ADD PFUNFILLED50.
EXI
@SORT,ES
FILEIN=PFUNFILLED51.
FILEOUT=PFUNFILLED51.
KEY=10,9,S,A                  . SORTED BY MOS
KEY=1,8,S,A                   . SORTED BY DEMAND NAME
@END
@SORT,ES
FILEIN=PFASSIGNED61.
FILEOUT=PFASSIGNED61.
KEY=1,4,S,A                  . SORTED BY JOB'S FIRST 4 CHARACTERS
@END
@FREE 41.
@FREE 51.
@FREE 61.
```

Figure 3-23. ASSIGNMENTS/3 Runstream

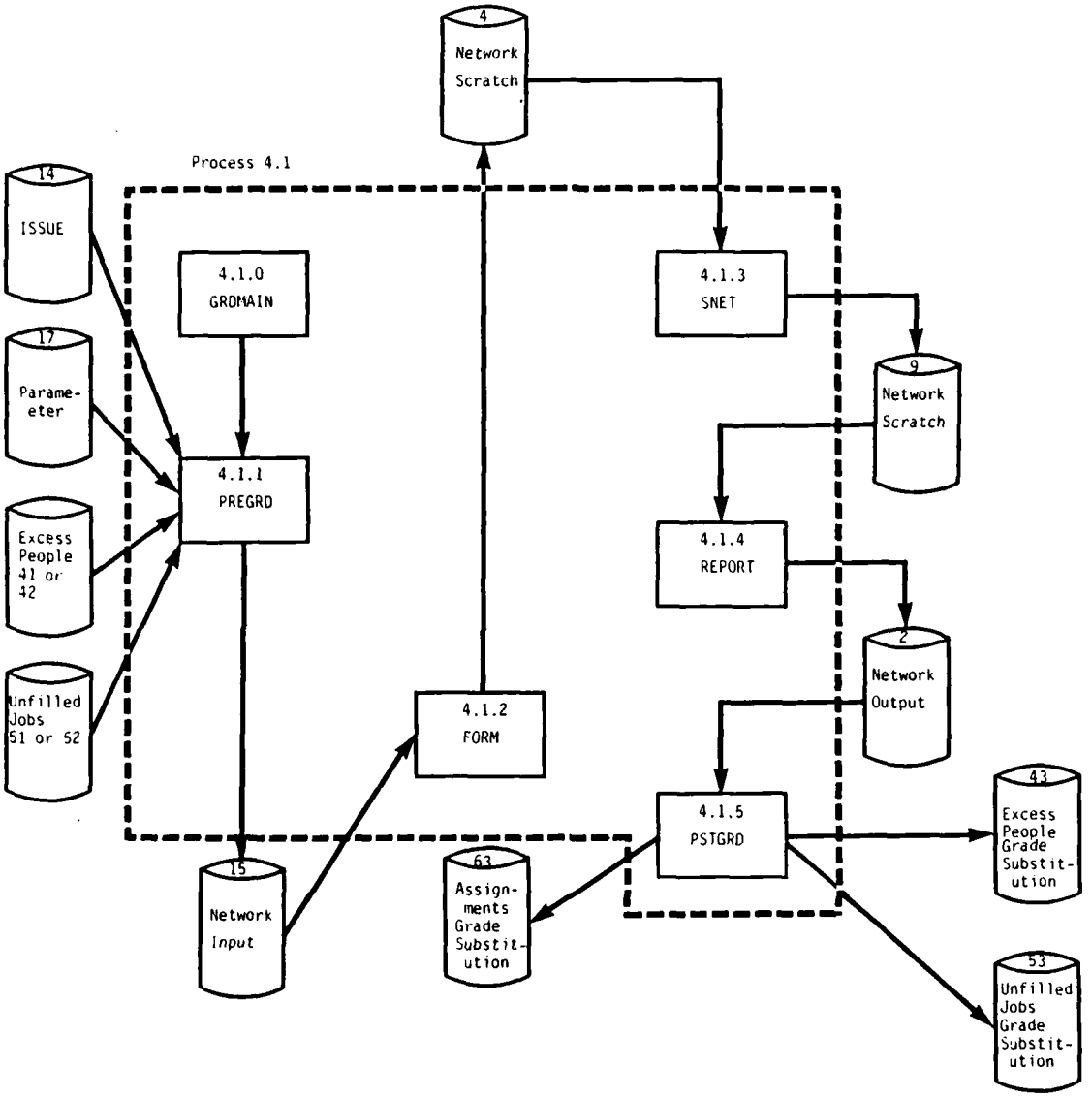

Figure 3-24. Organization and Flow of Grade Substitution Assignment Processor

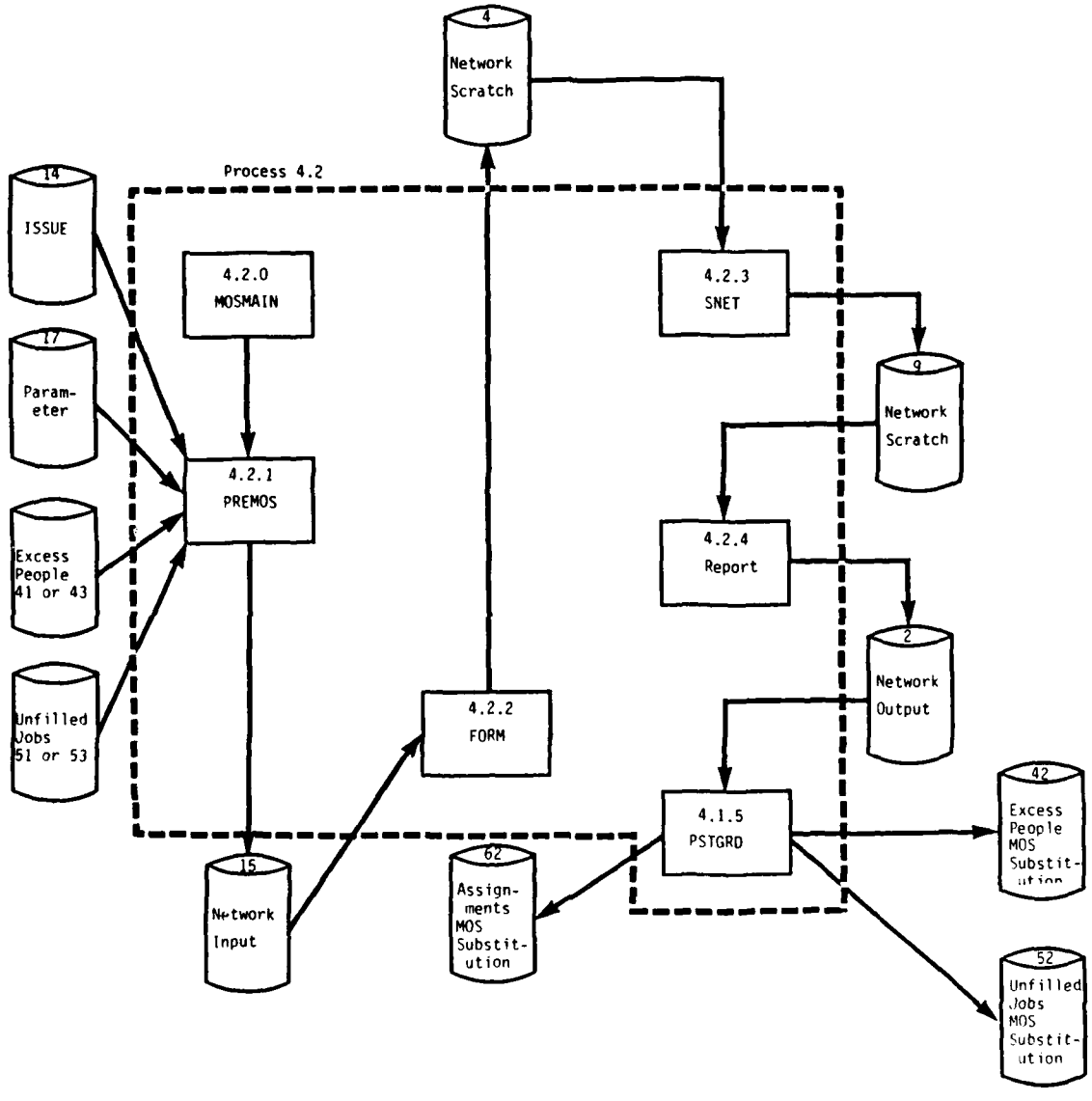

Figure 3-25. Organization and Flow of MOS Substitution Assignment Processor

```
@ .          - - - - - - - - - - - - ASSIGN NETWORK WORKING FILES
@ASG,T  PFNETOUT2.,///1000
@ASG,T  PFNETWORK3.
@ASG,T  PFNETWORK4.
@ASG,T  PFNETWORK8.
@ASG,T  PFNETWORK9.
@ASG,A  PFNETIN15.,///2000
@ .          - - - - - - - - - - - ISSUE FILE
@ASG,A  PFISSUE14.
@EQ     PFPRIM-FILES.ISSUE,PFISSUE14.
EXI
@ .          - - - - - - - - - - - PARAMETER FILE
@ASG,A  PFPARAMET17.
@EQ     PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@ASG,A  PFNUMBPEOP21.
@ASG,A  PFJOBASVAL40.
@ASG,A  PFEXCPEOP41.
@ASG,A  PFEXPEOGRA43.
@ .          - - - - - - - -                ADD UNFILLED JOBS FROM POLICY PPOCESSOR TO 51
@ . ASG,A  PFUNFILLED50.
@ASG,A  PFUNFILLED51.
@ASG,A  PFUNFILLGR53.
@ASG,A  PFASSIGNGR63.
@ERS        PFASSIGNGR63.
@USE        2.,PFNETOUT2.
@USE        3.,PFNETWORK3.
@USE        4.,PFNETWORK4.
@USE        8.,PFNETWORK8.
@USE        9.,PFNETWORK9.
@USE       14.,PFISSUE14.
@USE       15.,PFNETIN15.          . SCRATCH FILE,  INPUT TO MODEL
@USE       17.,PFPARAMET17.        . PARAMETER FILE
@USE       21.,  PFNUMBPEOP21      . CONTAINS NUMBER OF PEOPLE BY MOS
@USE       40.,PFJOBASVAL40.       . INPUT JOB FILE
@USE       41.,PFEXCPEOP41.        . INPUT EXCESS PEOPLE FILE BY MOS
@USE       43.,PFEXPEOGRA43.       . OUTPUT EXCESS PEOPL FILE BY GRADE
@USE       51.,PFUNFILLED51.       . INPUT EXCESS JOB FILE BY JOB
@USE       53.,  PFUNFILLGR53.     . OUTPUT UNFILLED JOB FILE - GRADE
@USE       63.,PFASSIGNGR63.       . OUTPUT JOB ASSIGNMENT FILE
@XQT    PFPRIM-ABS.755SUBST-GRD/4-1
@FREE   PFNETOUT2.
@FREE   PFNETWORK3.
@FREE   PFNETWORK4.
@FREE   PFNETWORK9.
@EQ,R 43.
P'
@EQ,R 53.
P'
@EQ,R 63.
P'
@MSG,N
@ASG,T   XA.,///2000
@ASG,T   XB.,///10000
@SORT,ES
FILEIN=PFEXPEOGRA43.
FILEOUT=PFEXPEOGRA43.
KEY=1,9,S,A
@END
@SORT,ES
FILEIN=PFUNFILLGR53.
FILEOUT=PFUNFILLGR53.
KEY=10,9,S,A
KEY=1,9,S,A
@END
@SORT,ES
FILEIN=PFASSIGNGR63.
FILEOUT=PFASSIGNGR63.
KEY=1,4,S,A
KEY=10,9,S,A
@END
@FREE    XA.
@FREE    XB.
@FREE  43.
@FREE  53.
@FREE  63.
```

Figure 3-26. SUBST-GRD1ST/4-1 Runstream

```
@ .          - - - - - - - - - - - ASSIGN NETWORK WORKING FILES
@ASG,T  PFNETOUT2.,///1000
@ASG,T  PFNETWORK3.
@ASG,T  PFNETWORK4.
@ASG,T  PFNETWORK8.
@ASG,T  PFNETWORK9.
@ASG,T  PFNETIN15.
@ .          - - - - - - - - - - - ISSUE FILE
@ASG,A  PFPRIM-FILES.
@ASG,A  PFISSUE14.
@ED     PFPRIM-FILES.ISSUE,PFISSUE14.
EXI
@ .          - - - - - - - - - - - PARAMETER FILE
@ASG,A  PFPARAMET17.
@ED     PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@FREE   PFPRIM-FILES.
@ASG,A  PFJOBASVAL40.
@ASG,A  PFEXCPEOP41.
@ASG,A  PFEXPEOMOS42.
@ASG,T  PFEXPEOMOS44.
@ .          - - - - - - -        ADD UNFILLED JOBS FROM POLICY PROCESSOR TO 51
@ASG,A  PFUNFILLED50.
@ASG,A  PFUNFILLED51.
@ASG,A  PFUNFILLMO52.
@ASG,T  PFUNFILLED54.
@ASG,A  PFASSIGNMO62.
@USE      2.,PFNETOUT2.
@USE      3.,PFNETWORK3.
@USE      4.,PFNETWORK4.
@USE      8.,PFNETWORK8.
@USE      9.,PFNETWORK9.
@USE     14.,PFISSUE14.
@USE     15.,PFNETIN15.          . SCRATCH FILE,  INPUT TO MODEL
@USE     17.,PFPARAMET17.        . PARAMETER FILE
@USE     21.,  PFPRIM21          . CONTAINS NUMBER OF PEOPLE BY MOS
@USE     40.,PFJOBASVAL40.       . INPUT JOB FILE
@USE     41.,PFEXCPEOP41.        . INPUT EXCESS PEOPLE FILE BY MOS
@USE     42.,PFEXPEOMOS42.       . OUTPUT EXCESS PEOPL FILE BY MOS
@USE     44.,PFEXPEOMOS44.       . SCRATCH EXCESS PEOPL FILE BY MOS
@USE     51.,PFUNFILLED51.       . INPUT EXCESS JOB FILE BY JOB
@USE     52.,  PFUNFILLMO52.     . OUTPUT EXCESS JOB FILE BY JOB
@USE     54.,PFUNFILLED54.       . SCRATCH EXCESS PEOPL FILE BY MOS
@USE     62.,PFASSIGNMO62.       . OUTPUT JOB ASSIGNMENT FILE
@ASG,A  PFPRIM-ABS.
@FREE   PFPRIM-ABS.
@XQT PFPRIM-ABS.755SUBST-MOS/4-2
@FREE   PFNETOUT2.
@FREE   PFNETWORK3.
@FREE   PFNETWORK4.
@FREE   PFNETWORK9.
@ED,R 42.
P!
@ED,R 52.
P!
@ED,R 62.
P!
@ASG,T  XA.,///2000
@ASG,T  XP.,///10000
@SORT,ES
FILEIN=PFEXPEOMOS42.
FILEOUT=PFEXPEOMOS42.
KEY=1,9,S,A
@END
@SORT,ES
FILEIN=PFUNFILLMO52.
FILEOUT=PFUNFILLMO52.
KEY=10,9,S,A
@END
@SORT,ES
FILEIN=PFASSIGNMO62.
FILEOUT=PFASSIGNMO62.
KEY=1,4,S,A
@END
@FREE   XA.
@FREE   XP.
```

Figure 3-27. SUBST-MOS1ST/4-2 Runstream

```
@.          - - - - - - - - - - - ASSIGN NETWORK WORKING FILES
@ASG,A  PFNETOUT2.,///1000
@ASG,T  PFNETWORK3.
@ASG,T  PFNETWORK4.
@ASG,T  PFNETWORK8.
@ASG,T  PFNETWORK9.
@ASG,A  PFNETIN15.
@.          - - - - - - - - - - - ISSUE FILE
@ASG,A  PFISSUE14.
@ED     PFPRIM-FILES.ISSUE,PFISSUE14.
EXI
@.          - - - - - - - - - - - PARAMETER FILE
@ASG,A  PFPARAMET17.
@ED     PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@ASG,A  PFJOBASVAL40.
@ASG,A  PFEXPEOMOS42.
@ASG,A  PFEXPEOGRA43.
@ASG,T  PFEXPEOMOS44.
@ASG,A  PFUNFILLMO52.
@ASG,A  PFUNFILLGR53.
@ASG,T  PFUNFILLED54.
@ASG,A  PFASSIGNMO62.
@USE       2.,PFNETOUT2.
@USE       3.,PFNETWORK3.
@USE       4.,PFNETWORK4.
@USE       8.,PFNETWORK8.
@USE       9.,PFNETWORK9.
@USE      14.,PFISSUE14.
@USE      15.,PFNETIN15.          . SCRATCH FILE,  INPUT TO MODEL
@USE      17.,PFPARAMET17.        . PARAMETER FILE
@USE      21.,  PFPRIM21          . CONTAINS NUMBER OF PEOPLE BY MOS
@USE      40.,PFJOBASVAL40.       . INPUT JOB FILE
@USE      42.,PFEXPEOMOS42.       . OUTPUT EXCESS PEOPL FILE BY MOS
@USE      43.,PFEXPEOGRA43.       . OUTPUT EXCESS PEOPL FILE BY GRADE
@USE      44.,PFEXPEOMOS44.       . SCRATCH EXCESS PEOPL FILE BY MOS
@USE      52.,  PFUNFILLMO52.     . OUTPUT EXCESS JOB FILE BY JOB
@USE      53.,  PFUNFILLGR53.     . OUTPUT UNFILLED JOB FILE - GRADE
@USE      54.,PFUNFILLED54.       . SCRATCH EXCESS PEOPL FILE BY MOS
@USE      62.,PFASSIGNMO62.       . OUTPUT JOB ASSIGNMENT FILE
@XQT PFNET.755SUBST-MOS/4-2
@FREE   PFNETOUT2.
@FREE   PFNETWORK3.
@FREE   PFNETWORK4.
@FREE   PFNETWORK9.
@ED,R 42.
P
@ED,R 52.
P
@ED,R 62.
P
@ASG,T   XA.,///2000
@ASG,T   XB.,///10000
@SORT,ES
FILEIN=PFEXPEOMOS42.
FILEOUT=PFEXPEOMOS42.
KEY=1,9,S,A
@END
@SORT,ES
FILEIN=PFUNFILLMO52.
FILEOUT=PFUNFILLMO52.
KEY=10,9,S,A
KEY=1,9,S,A
@END
@SORT,ES
FILEIN=PFASSIGNMO62.
FILEOUT=PFASSIGNMO62.
KEY=1,4,S,A
@END
@FREE    XA.
@FREE    XB.
```

Figure 3-28. SUBST-MOS2ND/4-2 Runstream

```
@.          - - - - - - - - - - - ASSIGN NETWORK WORKING FILES
@ASG,A  PFNETOUT2.,///1000
@ASG,T  PFNETWORK3.
@ASG,T  PFNETWORK4.
@ASG,T  PFNETWORK8.
@ASG,T  PFNETWORK9.
@ASG,A  PFNETIN15.
@.          - - - - - - - - - - ISSUE FILE
@ASG,A  PFISSUE14.
@ED     PFPRIM-FILES.ISSUE,PFISSUE14.
EXI
@.          - - - - - - - - - - PARAMETER FILE
@ASG,A  PFPARAMET17.
@ED     PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@ASG,A  PFJOBASVAL40.
@ASG,A  PFEXPEOMOS42.          . INPUT EXCESS PEOPLE FILE
@ASG,A  PFEXPEOGRA43.          . OUTPUT EXCESS PEOPLE FILE
@ASG,A  PFUNFILLMO52.          . INPUT UNFILLED JOB FILE
@ASG,A  PFUNFILLGR53.          . OUTPUT UNFILLED JOB FILE
@ASG,A  PFASSIGNGR63.
@USE      2.,PFNETOUT2.
@USE      3.,PFNETWORK3.
@USE      4.,PFNETWORK4.
@USE      8.,PFNETWORK8.
@USE      9.,PFNETWORK9.
@USE     14.,PFISSUE14.
@USE     15.,PFNETIN15.          . SCRATCH FILE,  INPUT TO MODEL
@USE     17.,PFPARAMET17.        . PARAMETER FILE
@USE     21.,  PFNUMBPEOP21      . CONTAINS NUMBER OF PEOPLE BY MOS
@USE     40.,PFJOBASVAL40.       . INPUT JOB FILE
@USE     42.,PFEXPEOMOS42.       . OUTPUT EXCESS PEOPL FILE BY MOS
@USE     43.,PFEXPEOGRA43.       . OUTPUT EXCESS PEOPL FILE BY GRADE
@USE     52.,  PFUNFILLMO52.     . OUTPUT EXCESS JOB FILE BY JOB
@USE     53.,  PFUNFILLGR53.     . OUTPUT UNFILLED JOB FILE - GRADE
@USE     63.,PFASSIGNGR63.       . OUTPUT JOB ASSIGNMENT FILE
@XQT PFNET.755SUBST-GRD/4-1
@FREE   PFNETOUT2.
@FREE   PFNETWORK3.
@FREE   PFNETWORK4.
@FREE   PFNETWORK9.
@ED,R 43.
P!
@ED,R 53.
P!
@ED,R 63.
P!
@ASG,T   XA.,///2000
@ASG,T   XB.,///10000
@SORT,ES
FILEIN=PFEXPEOGRA43.
FILEOUT=PFEXPEOGRA43.
KEY=1,9,S,A
@END
@SORT,ES
FILEIN=PFUNFILLGR53.
FILEOUT=PFUNFILLGR53.
KEY=10,9,S,A
KEY=1,9,S,A
@END
@SORT,ES
FILEIN=PFASSIGNGR63.
FILEOUT=PFASSIGNGR63.
KEY=1,4,S,A
@END
@FREE    XA.
@FREE    XB.
@FREE 43.
@FREE 53.
@FREE 63.
```

Figure 3-29. SUBST-GRD2ND/4-1 Runstream

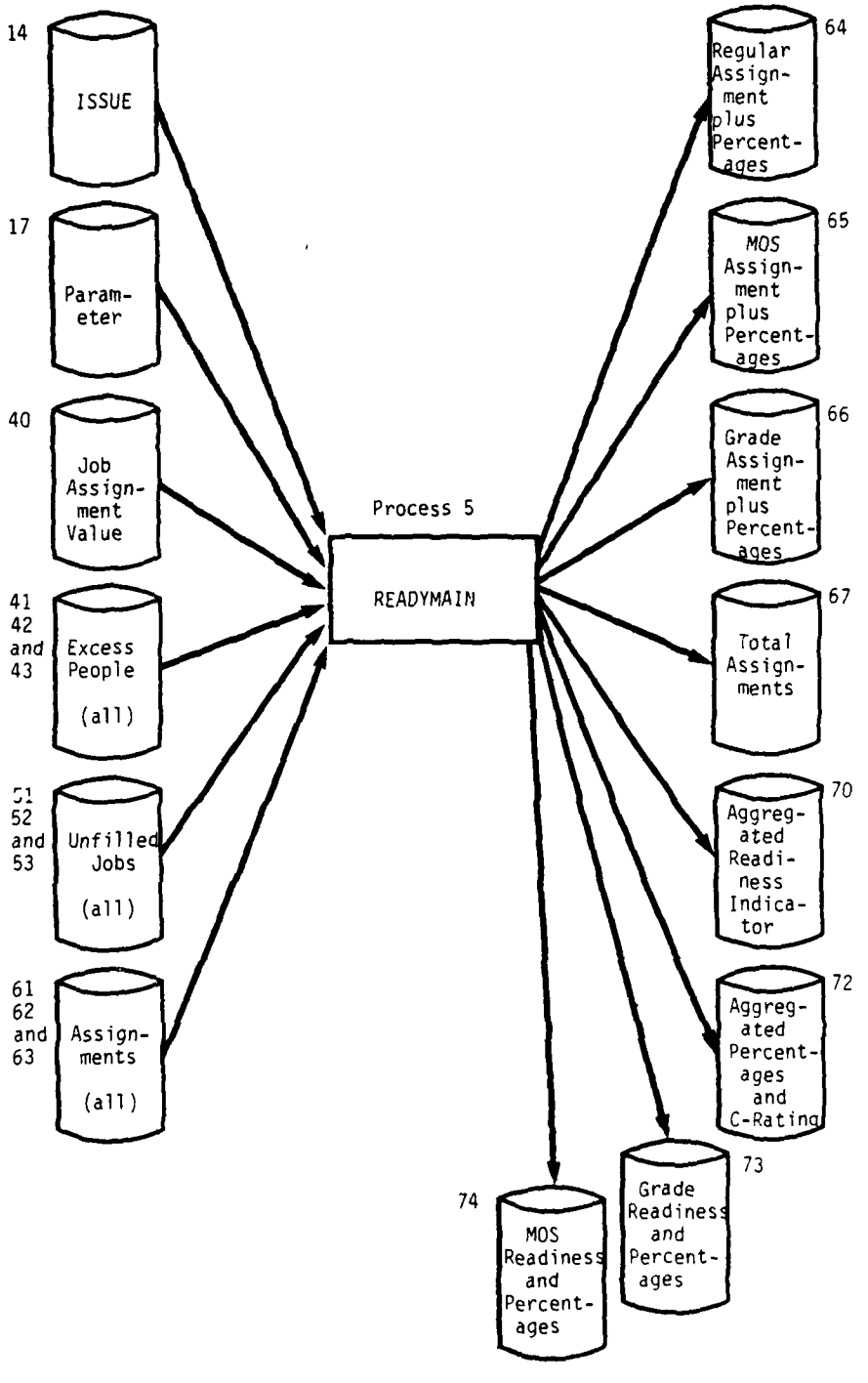

Figure 3-30. Organization and Flow of Readiness Processor

```
@HDG  READINESS/5                    READINESS PROCESSOR 5 0
@TITLE READINESS,5$-$0,READINESS,PROCESSOR
@TITLE READINESS,5$-$0,READINESS,PROCESSOR
@ .
@ .  THIS RUNSTREAM EXECUTES THE READINESS PROCESSOR
@ .
@ .              - - - - - - - - - -   ASSIGN ISSUE FILE
@ASG,A           PFISSUE14.
@ED              PFPRIM-FILES.ISSUE,PFISSUE14.
EXI
@ .              - - - - - - - - - - ASSIGN PARAMETER FILE
@ASG,A           PFPARAMET17.
@ED              PFPRIM-FILES.PARAMETER,PFPARAMET17.
EXI
@ .              - - - - - - - - - - ASSIGN BASE VALUE FILE
@ASG,A           PFVALUE19.
@ . ED              PFPRIM-FILES.VALUE,PFVALUE19.
@ . EXI
@ .              - - - - - - - - - -  ASSIGN INPUT FILES
@ASG,A           PFMOSISSUE31.
@ASG,A           PFASSIGNED61.
@ASG,A           PFASSIGNMO62.
@ASG,A           PFASSIGNGR63.
@ .              - - - - - - - - - -  ASSIGN OUTPUT FILES
@ASG,A           PFASSIGNED64.,///10000
@ASG,A           PFASSIGNMO65.,///5000
@ASG,A           PFASSIGNGR66.,///5000
@ASG,A           PFASSIGNED67.,///10000
@ASG,A           PFISSREADI70.,///5000
@ASG,A           PFISSPERCR72.,///5000
@ASG,A           PFGRAREADI73.,///10000
@ASG,A           PFMOSREADI74.,///10000
@ .              - - - - - - - - - - ATTACH FILE NUMBERS
@USE        14.,PFISSUE14.
@USE        17.,PFPARAMET17.
@USE        19.,PFVALUE19.
@USE        31.,PFMOSISSUE31.
@USE        61.,PFASSIGNED61.
@USE        62.,PFASSIGNMO62.
@USE        63.,PFASSIGNGR63.
@USE        64.,PFASSIGNED64.
@USE        65.,PFASSIGNMO65.
@USE        66.,PFASSIGNGR66.
@USE        67.,PFASSIGNED67.
@USE        70.,PFISSREADI70.
@USE        72.,PFISSPERCR72.
@USE        73.,PFGRAREADI73.
@USE        74.,PFMOSREADI74.
@ERS        64.
@ERS        65.
@ERS        66.
@ERS        67.
@ERS        70.
@ERS        72.
@ERS        73.
@ERS        74.
@XQT        PFPRIM-ABS.755READINESS/5
@ED,R         64.
LNP!
@ED,R         65.
LNP!
@ED,R         66.
LNP!
@ED,R         67.
LNP!
@ED,R         70.
LNP!
@ED,R         72.
LNP!
@ED,R         73.
LNP!
@ED,R         74.
LNP!
OMI
@FREE  64.
@FREE  65.
@FREE  66.
@FREE  67.
@FREE  70.
@FREE  72.
@FREE  73.
@FREE  74.
```

Figure 3-31. READINESS/5 Runstream

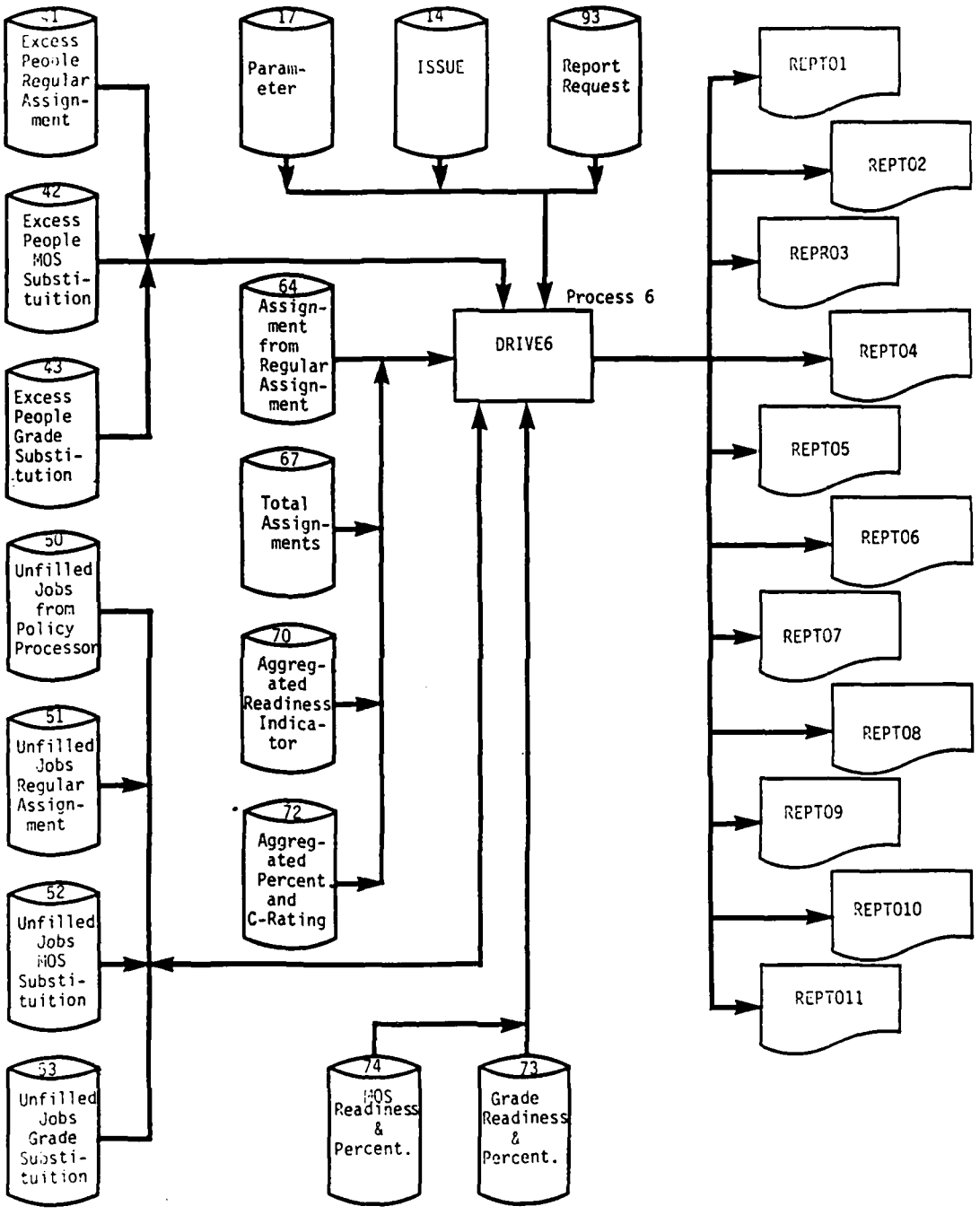

Figure 3-32. Organization and Flow of Report Processor

```
@HOG  P R I M   R E P O R T S
@PFPRIM-ABS.TITLE,D FORMATTED,REPORTS,PROCESS$6,P$R$I$M,REPORTS
@PFPRIM-ABS.TITLE,D FORMATTED,REPORTS,PROCESS$6,P$R$I$M,REPORTS
@* - - - - - - - - - - - - - -   ASSIGN TEMPORARY FILES FOR INTERNAL SORTS
@ASG,T  XP.,///560
@ASG,T  XA.,///80
@* - - - - - - - - - - - - - -   ASSIGN THE ERROR AND ISSUE FILES
@ASG,A        PFERROR13.
@USE     13.,PFERROR13.
@ASG,A        PFISSUE14.
@USE     14.,PFISSUE14.
@* - - - - - - - - - - - - - -   ASSIGN THE EXCESS PEOPLE FILES
@ASG,A        PFEXCPEOP41.
@USE     41.,PFEXCPEOP41.
@ASG,A        PFEXPEOMOS42.
@USE     42.,PFEXPEOMOS42.
@ASG,A        PFEXPEOGRA43.
@USE     43.,PFEXPEOGRA43.
@* - - - - - - - - - - - - - -   ASSIGN THE UNFILLED JOB FILES
@ASG,A        PFUNFILLED50.
@USE     50.,PFUNFILLED50.
@ASG,A        PFUNFILLED51.
@USE     51.,PFUNFILLED51.
@ASG,A        PFUNFILLMO52.
@USE     52.,PFUNFILLMO52.
@ASG,A        PFUNFILLGR53.
@USE     53.,PFUNFILLGR53.
@* - - - - - - - - - - - - - -   ASSIGN THE READINESS FILES
@ASG,A        PFASSIGNED64.
@USE     64.,PFASSIGNED64.
@ASG,A        PFASSIGNED67.
@USE     67.,PFASSIGNED67.
@ASG,A        PFISSREADI70.
@USE     70.,PFISSREADI70.
@ASG,A        PFISSPERCR72.
@USE     72.,PFISSPERCR72.
@ASG,A        PFGRAREADI73.
@USE     73.,PFGRAREADI73.
@ASG,A        PFMOSREADI74.
@USE     74.,PFMOSREADI74.
@* - - - - - - - - - - - - - -   ASSIGN THE REPORT REQUEST FILE
@ASG,A        PFREPORT93.
@USE     93.,PFREPORT93.
@ED           PFPRIM-FILES.REPORT,PFREPORT93.
@* - - - - - - - - - - - - - -   MAKE SURE THE ABSOLUTE FILE IS AVAILABLE
@ASG,A        PFPRIM-ABS.
@FREE         PFPRIM-ABS.
@XQT  PFPPIM-ABS.755REPORT/6
@ADD  PFPPIM-FILES.PARAMETER
```

Figure 3-33. REPORTS/6 Runstream

3.3 OUTPUT REQUIREMENTS. The output of the PRIM exists in two forms, either hard copy reports or on-line mass storage files. The mass storage files generated by the model will generally not be referenced by the user. The reports, however, make up the primary product of the model and will be used quite frequently. Up to 11 different formatted readiness reports may be generated by the Report Processor. These reports are discussed in detail in Section 3.4, Utilization of System Outputs. In addition to the 11 formatted reports, a run diagnostic report is printed in each runstream output. These reports provide information on the outcome of the run execution. Based on these diagnostic reports, the user decides whether the next runstream should be executed or whether input files should be modified and the previous module(s) executed again.

3.3.1 Output Formats. This subsection would normally contain output file formats. Since the primary outputs of the PRIM are reports and not files, this section is not applicable to the system. However, some output files are created, and a brief description of each is included below, and all file formats may be found in Appendix A, File Descriptions.

a. Network Output File. This file is created by the network program to pass information on assignments made to the other programs. This file is binary and cannot be looked at using the @ED processor, nor can it be printed without a special program. See Table A-1 for the file identification of file number 2.

b. Error Print File. This file is created by the Preprocessor, Policy Processor, and Report Processor and is an alternate print file on mass storage. See Table A-1 for the file identification of file number 13.

c. MOS-data (three-digit and ISSUE Files). These files are aggregations of the six-digit MOS-data file, first at the three-digit UIC level, then at the ISSUE level. All pay grades are combined, and similar records are combined so that the final MOS-data file contains one record for each unique combination of ISSUE and specialty. See Table A-1 for the identification of these files, file numbers 29, 30, and 31.

d. Extra Job Data Files. When the Policy Processor is able to match an input policy with an input MOS record, the data needed by the Assignment Processor is created and written to the Job Assignment Value file. However, the MOS records that cannot be matched to a policy are considered extra or unused job data for that pass. This extra data is written to an extra job data file in a format similar to the MOS-data files for use as MOS-data on the next pass through the Policy Processor. The Value file is applied to the final extra job data file with all unmatched MOS-data written to an Unfilled Job file. See Table A-1 for the identification of mass storage files numbered 36, 37, and 38.

e. Job Assignment Value Files. Two files are used by the Policy Processor to store job assignment values records which consist of minimum and maximum aggregate assignments desired, and for each grade, the minimum and maximum number of assignments and the value of making these

assignments. These files are used alternately, with the output file on one pass becoming the input file for the next pass. See Table A-1 for the identification of the JAV files numbered 39 and 40.

f. Excess People Files. This set of files is created as outputs from the Assignment Processor (file 41) and the Substitute Assignment Processor (files 42 and 43), then as inputs to the Readiness Processor and Report Processor. See Table A-1 for the identification of files numbered 41 through 44.

g. Unfilled Jobs File. This set of files is first created as outputs from the Policy Processor (file 50) and the Assignment Processor (file 51). These are then used as input to the Substitute Assignment Processor which creates files 52, 53, and 54 These are input to the Readiness Processor and to the Report Processor. See Table A-1 for identification of mass storage files numbered 50 through 54.

h. Assignment Files. These files are first created from the Assignment Processor (file 61) and the Substitute Assignment Processor (files 62 and 63). These are then used as input to the Readiness Processor. See Table A-1 for identification of mass storage files 61 through 63.

i. Readiness Indicator Files. This set of files contains outputs from the Readiness Processor for use in formatted readiness reports. Files numbered 64 through 67 contain the detail data for each MOS and grade in every ISSUE. Files numbered 70 and 72 are readiness data aggregated to ISSUE level; file 73 contains the readiness data for each grade level in each ISSUE, aggregated across all MOS; and file 74 contains the readiness data for each MOS in each ISSUE, aggregated across grades. See Table A-1 for identification of mass storage files 64 through 67, 70, 72, 73, and 74.

j. Aggregated-ISSUE Indicator File. This is an interim file produced by the Policy Processor. It contains the Aggregated-ISSUE policies converted to the flags that are used within the Policy Processor. See Table A-1 for the identification of mass storage file 90.

k. Policy Files. The Policy file is created by the user and edited by the Policy processor by comparing data from the Parameter and ISSUE Definition files with the input Policy file. The Edited Policy file is written to file 92. See Table A-1 for the identification of mass storage files 91 and 92.

3.3.2 Sample Outputs. PRIM produces two types of printed outputs. The first type is the formatted readiness reports, which were described in the Functional Description and which were designed to provide the readiness indicators, number of people assigned to each job, and relevant ratios such as available personnel divided by required personnel. These are fully described in the following section. The second report type is the run diagnostic report. These reports are automatically printed in the runstream and provide the model operator with enough information to make the decision to continue with the next module or to correct errors and repeat the last execution.

a. Formatted Readiness Reports. There are 11 different formatted readiness reports possible which may be produced by PRIM. The Report Processor uses the date and valid grade codes from the Parameter file and the files that were output from the Readiness Processor to produce printed-reports that are formatted and labeled for readability. Some readiness reports are produced at the highest aggregated level. Since the Report Processor can be run as frequently as desired, and any number of reports can be requested on each run, the user may request aggregated level readiness reports first, then choose detailed readiness reports for only certain ISSUEs or MOS. See Table 3-1 for a list of the available reports.

Table 3-1. Report Types

Report type	Report subtype	Report name
1		ISSUE Summary Report
2		Specialty Summary by Aggregated ISSUE
3	ALL	Specialty Summary by ISSUE - All Specialties
	MOS code	Specialty Summary by ISSUE - Specific MOS Only
4		Specialty Summary by Grade
5		Grade Summary by Aggregated ISSUE
6		Grade Summary by ISSUE
7		High Five Summary by ISSUE
8	ALL	ISSUE Listing - All ISSUEs
	ISSUE code	ISSUE Listing - Specific ISSUE
9		C-ratings
10	ALL	Excess Personnel-All types
	ORIGINAL	Excess Personnel from Regular Assignment
	MOS SUB	Excess Personnel from MOS Substitution
	GRADE SUB	Excess Personnel from Grade Substituion
11	ALL	Unfilled Jobs-All types
	ORIGINAL	Unfilled Jobs from Regular Assignment
	MOS SUB	Unfilled Jobs from MOS Substitution
	GRADE SUB	Unfilled Jobs from Grade Substitution

b. Formatted Report Data. Figures 3-34 through 3-44 show sample formats of each report; these figures are located at the end of Section 3. The variable names are printed on the sample reports to help the user determine the meaning of each column; Table 3-2 provides a brief description of each readiness mnemonic; all variables are from files 64 through 74 and file formats are in Appendix A. The formulas used for the variable computations may be found in the PRIM Functional Description or the PRIM Study Report. The Report Request file is the user's interface with the Report Processor. If this file is empty, no formatted reports will be produced. See Appendix A for identification of file 93.

Table 3-2. Readiness Mnemonic Description

	Required	Authorized	Assigned	Available
Number for a specific MOS & grade	REQSTR	AUTSTR	ASSSTR	AVASTR
% - for a specific MOS & grade	AVPERE	AVPEALL		
Σ - over all MOS for each grade	AGREGR	AGAUGR	AGASGR	AGAVGR
% - over all MOS for each grade	PEREGR	PEAUGR		
Σ - over all grades for each MOS	AGREMO	AGAUMO	AGASMO	AGAVMO
% - over all grades for each MOS	MPERRE	MPERAU		
Σ - over all grades and all MOS	AGGREQ	AGGAUT	AGGASS	AGGAVA
% - over all grades and all MOS	REASPE & REAVPE	AUASPE		
C-rating - aggregate	REAVC & REASC	AUASC		
Σ - over High 5 grades for each MOS	H5REMO	H5AUMO	H5ASMO	H5AVMO
Σ - over High 5 grades & all MOS	H5REAG	H5AUAG	H5ASAG	H5AVAG
% - over High 5 grades & all MOS	H5REPE	H5AUPE		
Σ - over senior grades & all MOS	AGRESE	AGAUSE	AGASSE	AGAVSE
% - over senior grades & all MOS	AVSEPE	ASSEPE		
Σ - correct MOS, all grades & MOS			AGASOK	AGAVOK
% - correct MOS, all grades & MOS	APREOK	APAUOK		
C-rating - senior grade	AVSEC			
C-rating - aggregate only	REAVC			
C-rating - based on available	AVASC			
C-rating - based on average MOS	OKMOSC			
C-rating - overall for issue/unit	ISCRAT			
Amount missed goal of MINPER	MISGOR	MISGOA		

Mnemonic Hints:

REQ & RE = Required
AUT & AU = Authorized
ASS & AS = Assigned
AVA & AV = Available
AGG & AG = Aggregated

MO & M = MOS
PER & PE = Percentage
H5 = High Five Enlisted
SE = Senior Grades (E5-06)

3.3.3 Output Vocabulary. The relevant output vocabulary was previously presented in Section 3.3.2.b and Table 3-2. Also refer to the Data Dictionary, which is Appendix A of the PRIM Program Maintenance Manual, and to the readiness computations in the PRIM Functional Description.

3.4 UTILIZATION OF SYSTEM OUTPUTS. The 14 run diagnostic reports and the 11 formatted readiness reports were described in Section 3.3. In general, the run diagnostic reports should only be used by an analyst who has been trained in use of both the computer system and PRIM. An exception is the list of units that were aggregated into each ISSUE output from process 1.2, which may be useful to a different analyst. The formatted readiness reports have been designed to be used by other analysts with very little explanation of the reports, and no knowledge of the computer system or how to run PRIM would be required.

3.4.1 Use of Run Diagnostic Reports. It is very important that the user check each diagnostic report prior to continuing with the next processor. Items that should be considered are:

a. Are the number of records read and written appropriate? In other words, was the correct input file read to the end and did the amount of expected aggregation or policy application occur?

b. Were there any PRIM error messages? If so, was the conscious decision made to continue without correction? Refer to Appendix C for an explanation of PRIM error messages.

c. Were there any computer system error messages? If so, it is very likely that at least that runstream will have to be rerun. When runstreams are executed in batch mode, the user is usually very aware of these messages; the abort messages are usually easy to see. Demand-mode execution simply continues with the next control statement after an abort condition. Thus, when a user starts looking at the results of the final execution, errors made in demand-mode are sometimes missed. When multiple runstreams are attached to make one runstream containing multiple executions, prior to studying the final output, the user should start at the top of the output and sequentially verify each interim step.

3.4.2 Use of Formatted Readiness Reports. Rather than produce all of the readiness reports every time, certain summary reports may be produced first, then only those specific ISSUE or MOS readiness reports of particular interest can be printed in a later run. The readiness reports are summarized by type in Table 3-3 and are described below.

Table 3-3. PRIM Readiness Report Summary[a]

Readiness report name	Detail or Aggregation		
	ISSUE	MOS	Grade
ISSUE Summary	D	A	A
Specialty by Aggregated ISSUE	S	D	A
Specialty Summary by ISSUE	D	D	A
Specialty Summary by Grade	A	D	D
Grade Summary by Aggregated ISSUE	S	A	D
Grade Summary by ISSUE	D	A	D
High Five Summary by ISSUE	D	D	
ISSUE Listing	D	D	D
C-rating	D	A	A
Excess People	N/A	D	D
Unfilled Jobs	D	D	D

[a]D = Detailed; A = Aggregated; S = Semiaggregated

a. The **ISSUE Summary** report (Figure 3-34) provides the user with an overall picture of the total assignment set achieved by the input data set. The numbers of personnel and the percentages most frequently used by MILPERCEN are displayed at the ISSUE level and aggregated over all MOS and grades.

b. The **Specialty Summary by Aggregated ISSUE** report (Figure 3-35) provides the user with an overall picture of the MOS percentage fills at the second ISSUE aggregation level. The report displays, for each MOS, the number of personnel required, authorized, assigned, and available plus relevant percentages for the aggregated ISSUE level. This report contains the same data as the subtotal lines of the MOS Summary by ISSUE and is much shorter than that report.

c. The **Specialty Summary by ISSUE** report (Figure 3-36) provides the user with a picture of the fills by MOS for each ISSUE. This report is a more detailed listing of the data from the previous report. It lists every ISSUE for every MOS.

d. The **Specialty Summary by Grade** report (Figure 3-37) provides the user with an overall picture of the MOS and grade percentage fills. It displays a summary over all ISSUEs for each MOS and grade.

e. The **Grade Summary by Aggregated ISSUE** (Figure 3-38) provides the user with a summary picture of the match between grade requirements and the ability to meet that requirement at the aggregated ISSUE level. This report contains the data shown on the subtotal lines of the following report.

f. The **Grade Summary by ISSUE** report (Figure 3-39) displays a summary of the fill by grade of each ISSUE and provides the user an overall picture of how well the grade requirements were met for each ISSUE.

g. The **High Five Summary by ISSUE** report (Figure 3-40) provides the user with a summary of the distribution, by ISSUE, of the highest five enlisted grades. This report is the same as the ISSUE Summary report, except that this report lists only the top five enlisted grades.

h. The **ISSUE Listing** report (Figure 3-41) allows the user to answer detailed questions about the fill of each individual ISSUE for every MOS and grade. This report lists summary information for each ISSUE including a high five report, followed by detailed information for every MOS in that ISSUE.

i. The **C-rating** report (Figure 3-42) allows the user to compare the C-ratings as they will be computed in the field with the personnel distribution criteria used by MILPERCEN. This report displays the MOS C-rating, the senior-grade C-rating, the Aggregate C-rating, and the overall C-rating for every ISSUE.

j. The **Excess Personnel** report (Figure 3-43) allows the user to identify those numbers of people by MOS and grade that will require assignment outside their MOS unless action is taken to change the projected inventories. This report can be produced for the original set of assignments or for the number left after either of the substitute assignments.

k. The **Unfilled Job** report (Figure 3-44) allows the user to identify those Army jobs that will not be filled other than by the incorrect MOS and/or grade unless action is taken. This report can be produced for the original set of assignments or for the unfilled jobs after either of the substitute assignments.

3.5 RECOVERY AND ERROR CORRECTION PROCEDURES. PRIM was designed as a modular system to facilitate efficient use by the user. Once the Preprocessor has been successfully completed and the PRIM job data base has been written, there is no need to rerun any of the four Preprocessor modules unless there is a hardware failure which destroys the MOS-data file. Similarly, once the original assignments have been successfully made according to the desired policies, different versions of substitution assignments can be tested without repeating any of the first three processors. Finally, additional reports may be printed without repeating the previous processors.

3.5.1 CPU Failures. In the event of an overall computer system failure, the module run which was in progress must be rerun.

3.5.2 Data File Failures

a. If a system component failure results in loss of the PRIM data files, it will be necessary to rerun the processor responsible for creating the lost file.

b. The number of tracks provided by the system default is 128; in general, PRIM files must be much larger. It is usually preferable to allow more tracks than the programs will need; unused space is kept by the computer system and provided in small increments to the using programs.

c. If the size of the data files vary significantly from the sizes of the files tested, the temporary scratch files, XA and XB that are assigned in many of the runstreams, may be needed to have the number of tracks changed. In general, with smaller files, XB should be about seven times larger than XA. As the size increases, the ratio should increase up to about 11 to 1. The system sort processor sometimes seems to take much longer when the scratch files are too large than it does when they are the correct size. The on-site Sperry representative has tables which show both the size and the multiplication factor needed for various sizes of files.

d. All input files except the Parameter and Report Request files must be sorted at least once. The Policy and ISSUE files are sorted internally by the programs. The UIC-data (file 22), MOS-data (file 8), and the inventory (file 21) must be sorted prior to the first program which uses them.

e. If the results of the system sort processor are incorrect (sort errors off without good explanation, or seems to finish successfully, but the data is not sorted), verify whether the file is Fielddata or ASCII and check that the option on the call to the sort processor (@SORT) and the KEY definitions specify the correct data type.

3.5.3 Model Processor Failures. Provisions exist in the Preprocessor and Policy Processor of the model to test data and user input which would induce abnormal termination of processing. In each instance, the model will generate an error message and terminate processing. It will be necessary for the user to take the action specified in the error message and rerun the section of the processor in which the error was found to ensure successful termination of the model. A complete list of the errors recognized by the Preprocessor and the Policy Processor, an explanation of the condition which causes the error, and an explanation of the result of the error is contained in Appendix C, Error Messages.

PRIM MODEL ISSUE SUMMARY PAGE 1

ISSUE	CODE	REQUIRED	AUTHORIZED	ASSIGNED	AVAILABLE	MINIMUM PERCENT	GOAL NUMBER	% ASSIGN /AUTH	% ASSIGN / REQ	% AVAIL / REQ	% GOAL ASSIGN
CONUS(OTHER)	C00	AGGREQ	AGGAUT	AGGASS	AGGAVA	PERMIN	MINPER* AGGAUT	AUASPE	REASPE	REAVPE	AGGASS/ GOAL NUMBER
ARMY SECR	C01										
ARMY STAFF	C02										
.											
.											
.											
TOTAL											
USAREUR	E00										
1ST ARM DIV	E01										
.											
.											
.											
OTHER USAREUR											
4TH MECH-EUR											
2D MECH-EUR											
1ST MECH-EUR											
SUBTOTAL											
TOTAL											
.											
.											
.											
GRAND TOTAL											

Figure 3-34. ISSUE Summary Report

```
P R I M  MODEL                SPECIALTY SUMMARY BY                    Page 1
TEST RUN 1                     AGGREGATED ISSUE                 ASOF 30SEP84

                                                          ASSIGN     AVAIL
MOS:  11B000000     REQ      AUTH      ASSIGN     AVAIL    / Auth     / Req

  CONUS-OTHER     AGREMO    AGAUMO    AGASMO     AGAVMO    MPERAU     MPERRE
  EUROPE
  FORSCOM
     .
     .
     .
  WESTCOM
      TOTAL

MOS:  11E000000

  CONUS-OTHER
  EUROPE
  FORSCOM
     .
     .
     .
WESTCOM
      TOTAL
```

Figure 3-35. Specialty Summary by Aggregated-ISSUE Report

```
P R I M  MODEL                SPECIALTY SUMMARY                       Page 1
TEST RUN 1                          BY ISSUE                    ASOF 30SEP84

                                                          ASSIGN     AVAIL
MOS:  11B000000     REQ      AUTH      ASSIGN     AVAIL    / AUTH     / REQ

  ADJ GEN         AGREMO    AGAUMO    AGASMO     AGAVMO    MPERAU     MPERRE
  CMP SYS CMD
     .
     .
     .
TOTAL - CONUS

  FORSCOM
    FT. BENNING
    FT. BRAGG
    FT. CARSON
      .
      .
      .
TOTAL - FORSCOM
      .
      .
      .
  WESCOM
      .
      .
      .
GRAND TOTAL
```

Figure 3-36. Specialty Summary by ISSUE Report

```
P R I M  MODEL              SPECIALTY SUMMARY                   Page 1
TEST RUN 1                       BY GRADE                  ASOF 30SEP84

                      E3        E4        E5     .     .     .     05        06
11B------

  REQUIRED        REQSTR
  AUTHORIZED      AUTSTR
  ASSIGNED        ASSSTR
  AVAILABLE       AVASTR
  ASSIGN/AUTH     ASSSTR/AUTSTR
  AVAIL /AUTH     AVASTR/AUTSTR
  AVAIL /REQ      AVASTR/REQSTR

11D

  REQUIRED
  AUTHORIZED
  ASSIGNED
  AVAILABLE
  ASSIGN/AUTH
  AVAIL /AUTH
  AVAIL /REQ

11E

  REQUIRED
  AUTHORIZED
  ASSIGNED
  AVAILABLE
  ASSIGN/AUTH
```

Figure 3-37. Specialty Summary by Grade Report

```
P R I M  MODEL              GRADE SUMMARY BY                    Page 1
TEST RUN 1                  AGGREGATED ISSUE               ASOF 30SEP84

GRADE:  E1
                                                          ASSIGN      AVAIL
                      REQ      AUTH      ASS'D     AVAIL   / AUTH      / REQ

  CONUS-OTHER        AGREGR   AGAUGR    AGASGR    AGAVER   PEAUGR     PEREGR
  EUROPE
  FORSCOM
     .
     .
     .
  WESTCOM
       TOTAL

GRADE:  E2

  CONUS-OTHER
  EUROPE
  FORSCOM
     .
     .
     .
  WESTCOM
       TOTAL
```

Figure 3-38. Grade Summary by Aggregated ISSUE Report

P R I M MODEL GRADE SUMMARY BY Page 1

TEST RUN 1 ISSUE ASOF 30SEP84

GRADE: E1

	REQ	AUTH	ASSIGN	AVAIL	ASSIGN / AUTH	AVAIL / REQ
CONUS-OTHER	AGREGR	AGAUGR	AGASGR	AGAVGR	PEAUGR	PEREGR
ADJ GEN						
CMP SYS CMD						
.						
.						
.						
TOTAL-CONUS						
FORSCOM						
FT BENNING						
FT BRAGG						
FT CARSON						
A						
B						
SUBTOTAL =						
TOTAL-FORSCOM						
.						
.						
WESTCOM						
GRAND TOTAL						

Figure 3-39. Grade Summary by ISSUE Report

PRIM MODEL — HIGH FIVE SUMMARY BY ISSUE — PAGE 1

TEST RUN 1 — ASOF 30SEP84

ISSUE	CODE	REQUIRED	AUTHORIZED	ASSIGNED	AVAILABLE	MINIMUM PERCENT	GOAL NUMBER	% ASSIGN /AUTH	% ASSIGN / REQ	% AVAIL / REQ	% ASSIGN GOAL
CONUS(OTHER)	C00	H5REAG	H5AUAG	H5ASAG	H5AVAG	MINPER	MINPER * H5AUAG	H5AUPE	H5ASAG/ H5REAG	H5REPE	H5ASAG/ GOAL NUMBER
ARMY SECR	C01										
A MY STAFF	C02										
.											
.											
.											
TOTAL											
USAREUR	E00										
1ST ARM DIV	E01										
.											
.											
.											
OTHER USAREUR											
4TH MECH-EUR											
2D MECH-EUR											
1ST MECH-EUR											
SUBTOTAL											
TOTAL											
.											
.											
.											
GRAND TOTAL											

Figure 3-40. High Five Summary by ISSUE Report

P R I M MODEL PAGE 1

ISSUE LISTING

	REQUIRED	AUTHORIZED	ASSIGNED	AVAILABLE	ASSIGN /AUTH	AVAIL /REQ
AGGREGATE	AGGREQ	AGGAUT	AGGASS	AGGAVA	AVASPE	REAVPE
HIGH FIVE	H5REAG	H5AUAG	H5ASAG	H5AVAG	H5AUPE	H5REPE
SENIOR	AGRESE	AGAUSE	AGASSE	AGAVSE	ASSEPE	AVSEPE
E1 . . E9						
WO	AGREGR	AGAUGR	AGASGR	AEAUGR	REAUGR	PEREGR
3 . . 06						
MOS =						
AGGREGATE	AGREMO	AGAUMO	AGASMO	AGAVMO	MPERAU	MPERRE
HIGH FIVE	H5REMO	H5AUMO	H5ASMO	H5AVMO		
E1 . . E9	REQSTR	AUTSTR	ASSSTR	AVASTR	ASPEAU	AVPERE

Figure 3-41. ISSUE Listing Report

PRIM MODEL C-RATINGS Page 1

TEST RUN 1 ASOF 30SEP84

	MOS	SENIOR GRADE	AVAILABLE	OVERALL
CONUS				
ARMY SECRETARY	OKMOSC	AVSEC	REAVC	ISCRAT
ARMY STAFF				
USAREC				
USMA				
. . .				
USAREUR				
1ST ARM DIV				
3D ARM DIV				
8TH INF DIV				
FORSCOM				

Figure 3-42. C-ratiny Report

PRIM MODEL — EXCESS PERSONNEL REPORT BY MOS AND GRADE — Page 1

TEST RUN 1 — ASOF 30SEP84

AFTER MOS SUBSTITUTION

MOS	E1	E2	E3	E4	E5	E6	E7	E8	E9	WO	O1	O2	O3	O4	O5	O6
11B000000								NUMEXC								
11C000000																
11D000000																
11E000000																
.																
.																
.																
TOTAL																

Figure 3-43. Excess Personnel Report

PRIM MODEL — UNFILLED JOB REPORT BY ISSUE, MOS, AND GRADE — Page 1

TEST RUN 1 — ASOF 30SEP84

ISSUE	MOS	E1	E2	E3	E4	E5	E6	E7	E8	E9	WO	O1	O2	O3	O4	O5	O6
C01	11B000000			3	2		1			4	3				3	2	
C01	11C000000			1	1			1		1	1				1		
.																	
.																	
.																	
C02	11B000000			1				1			1				1	2	
C02	11C000000																
.																	
.																	
.																	

Figure 3-44. Unfilled Job Report

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APPENDIX A

FILE DESCRIPTION

4.1 FILES. Table A-1 contains file descriptions for the Personnel Readiness Indicator Model. Following this table are complete formatted file descriptions used in this model. The sequence is the same as the logical unit number used in the programs; the unit file number is provided with each description. Each file is described on a separate page. The column locations, the format (alpha, integer, or real), and record length are provided, and the processor where the file is first used is identified.

4.2 DATA NAMES. The names of the data elements have been standardized; when the same data name is used in more than one file, the name represents the same data. When data names are different from one file to another, they do not represent the same data. For a description of data names, see the PRIM Data Dictionary, Appendix A of the Program Maintenance Manual.

Table A-1. File Identification

Logical unit number	Description	Mass storage name
2	Network Output File	PFNETOUT2
8	Input MOS File	PFINPUTMOS8
13	Error Print File	PFERROR13
14	ISSUE Definition File	PFISSUE14
15	Network Input File	PFNETIN15
17	Parameter File	PFPARAMET17
19	Value File	PFVALUE19
21	Number of People File	PFNUMBPEOP21
22	UIC-data (6-digit level) File	PFUIC6DIG22
23	UIC-data (3-digit level) File	PFUIC3DIG23
24	UIC-data (3-digit with ISSUE added) File	PFUICDATA24
25	UIC-data (3-digit with ISSUE added) File	PFUICDATA25
26	MOS-Enlisted File	PFMOS-ENL-26
27	MOS-Officer File	PFMOS-OFF-27
28	MOS-Warrant Officer File	PFMOS-WO-28
29	MOS-data (aggregated to 3-digit UIC level) File	PFMOSDATA29
30	MOS-data (3-digit with ISSUE code added) File	PFMOSDATA30
31	MOS-data (ISSUE level) File	PFMOSISSUE31
32	Aggregated ISSUE Policy File	PFAGISPO32
33	ISSUE Policy File	PFISSPOL33
34	MOS Policy File	PFMOSPOL34
35	Combined ISSUE and MOS Policy File	PFISMOPO35
36	Combined ISSUE & MOS Extra Job File	PFISMOEX36
37	MOS Extra Job File	PFMOSEXT37
38	ISSUE Extra Job File	PFISSEXT38
39	Job Assignment Value File (scratch)	PFJOBASVAL39
40	Job Assignment Value File (final)	PFJOBASVAL40
41	Excess People (from Regular Asignment) File	PFEXCPEOP41
42	Excess People (from MOS Substitution) File	PFEXPEOMOS42
43	Excess People (from Grade Substitution) File	PFEXPEOGRA43
44	Excess People (Scratch) File	PFEXPEOMOS44
50	Unfilled Jobs (from Policy Processor) File	PFUNFILLED50
51	Unfilled Jobs (from Regular Assignment) File	PFUNFILLED51
52	Unfilled Jobs (from MOS Substitution) File	PFUNFILLMO52
53	Unfilled Jobs (from Grade Substitution) File	PFUNFILLGR53
54	Unfilled Jobs (Scratch) File	PFUNFILLED54
61	Assignment (from Regular Assignment) File	PFASSIGNED61
62	Assignment (from MOS Substitution) File	PFASSIGNMO62
63	Assignment (from Grade Substitution) File	PFASSIGNGR63
64	Assignment (from Regular Assignment Plus Percentages) File	PFASSIGNED64
65	Assignment (from MOS Substitition Plus Percentages) File	PFASSIGNMO65
66	Assignment (from Grade Substition Plus Percentages) File	PFASSIGNGR66
67	Total Results	PFASSIGNED67
70	Aggregated Readiness Indicator File	PFISSREADI70
72	Aggregated Percentage and C-Rating File	PFISSPERCR72
73	Grade Readiness and Percentage File	PFGRAREADI73
74	MOS Readiness, Percentage, and C-Rating File	PFMOSREADI74
85	Strength by Grade Print File	PFGRASTREN85
86	Strength by MOS Print File	PFMOSSTREN86
90	Aggregated ISSUE Indicator File	PFAGISIND90
91	Policy File	PFPOLICY91
92	Edited Policy File	PFEDIPOL92
93	Report Request File	PFREPORT93

NETWORK OUTPUT FILE
FILE NUMBER 2

Record Length: N/A
Storage Medium: Mass Storage Source File: 15

First Use: Output from Assignment Processor, Subroutine SNET

Name	Description	Type
IDIFF	Resource (personnel) or inventory category: points to MOS in (NAMES) array	Binary
IDIFF2	Activity: points to grade in (IACT) array	Binary
IDIFF3	Demand (job identifier): points to job in (NAMES) array	Binary
IDIFF4	Number of people assigned to job People assigned to super job = excess people Super soldiers assigned to job = unfilled job	Binary

INPUT MOS FILE
FILE NUMBER 8

Record Length: 42 characters
Storage Medium: Mass Storage
Source File: N/A

First Use: Input to Preprocessor, Module 1.1.2.1, Separate MOS data

Name	Description	Position	Format
--	Filler	1	A1
UIC	6-Digit unit identification code	2-7	A6
--	Filler	8-14	A7
GRADE	Pay grade	15-16	A2
CMF	Career Management Field	17-18	A2
MOS	Military occupational specialty code	19-27	A9
--	Filler	28-31	A4
IDENT	Person identity code	32	A1
REQSTR	Required (structure) strength	33-35	I3
AUSTR	Authorized strength	36-38	I3
--	Filler	39-42	I4

ERROR PRINT FILE
FILE 13

Record Length: 132 characters
Storage Medium: Mass Storage

Source File: N/A

Name	Description	Position	Format
*	Error description	1-132	A-132

*Each record is variable in length and contains error number and description of error found.

ISSUE DEFINITION FILE
FILE NUMBER 14

Record Length: 62 characters
Storage Medium: Mass Storage Source File: N/A

First Use: Input to Preprocessor, Module 1.2, Set ISSUE

Name	Description	Position	Format
--	ISSUE=	1-6	A6
ISSUE	ISSUE code	7-10	A4
--	ID1=	11-14	A4
ID1	First identification Method Valid entries are: TPSN UIC3 UIC6 ASGMT ASGMT1	15-20	A6
--	= sign	21	A1
IDIVAL	First identification method value	22-27	A6
--	ID2=	28-31	A4
ID2	Second identification method. Valid entries are: LOCCO STACO ASGMT	32-37	A6
--	= sign	38	A1
ID2VAL	Value of second identification method	39-44	A6
--	NAME=	45-49	A5
ISSNAM	Name of ISSUE for report purposes	50-62	A12

NETWORK INPUT FILE
FILE 15 Source Files: 21, 40

Created by: PRETEST (3.1), PREMOS (4.1.1), PREGRD (4.2.1)

Note: This file contains six sets of records. Within each set are one to four record types. Records must be input in the following order.

Set one: Demand -- Type 1, 2, 3, and 4

Set two: Demand Sink (Super Jobs) -- Types 1, 2, and 3

Set three: End Demand -- Type 1

Set four: Resource -- Type 1, 2, 3, 4, and 5

Set five: Resource Sink (Super Soldiers) -- Type 1, 2, 3, 4, and 5

Set six: End Resource -- Type 1

MNEMONIC	DESCRIPTION	TYPE	EXAMPLE
	//////////////////////////		
	SET ONE: DEMAND RECORDS		
	//////////////////////////		
	--DEMAND RECORD TYPE ONE		
	One per Job Assignment Value Record for an MOS		
DEMAN	Demand node name (job identifier) Created by adding two to four alpha-numeric characters to the ISSUE code	A8	F01-QEA2
NSUPST	Number of supersets that include this DEMAN	I2	
	--DEMAND RECORD TYPE TWO		
	One for each demand record type one		
SUBSET	Superset names: US ARMY and MOS	A8	11A1

These names are used to link the job (DEMAN) to the available inventory i.e., if the job and the inventory have the same MOS as a super set name (see inventory resource section, record type 2 below), then a link is created

--DEMAND RECORD TYPE THREE

One for each demand record type one

AGGMIN	Minimum number of people that must be assigned to the DEMAN	I10
AGGMAX	Maximum number of people that may be assigned to the DEMAN	I10

--DEMAND RECORD TYPE FOUR

One to four for each demand record type one

GRAMIN	Minimum number of people that must be assigned to this DEMAN; one minimum for each grade	I10
GRAMAX	Maximum number of people that may be assigned to this DEMAN; one maximum for each grade	I10

NOTE: These numbers are input as pairs. One GRAMIN and one GRAMAX for the first valid grade, then one GRAMIN and one GRAMAX for the next valid grade, etc., until the number of pairs is equal to NGRADE in the parameter file. Four sets fit on each record

NETWORK INPUT FILE
FILE 15, cont.

////////////////////

SET TWO: DEMAND SINK

////////////////////

--SINK RECORD TYPE ONE

One per valid grade level

'SINK'	Identifies beginning of sink area ('SINK' is followed by 4 blanks)	A8	SINK
NSUPST	Number of supersets to which the sink belongs	I3	
'SJ-xxx'	Name of the super job. For regular assignment, the name is created by concatinating SJ- with the grade code, followed by two blanks. For MOS substitution, the blank is replaced with '-A' or '-F'	A8	SJ-ES SJ-EE5-A

--SINK RECORD TYPE TWO

One per superset record type one

SUPSET	Superset names: grade and MOS The number of names listed must be equal to NSUPST	A8	E6 100A

--SINK RECORD TYPE THREE

One per MOS

MOS	MOS of the super job (will be the same as the MOS of the jobs listed above	A8	11B 54
NUMPEO	The number of people that may be assigned to this super job. The 'PRE---' programs set this to the number of people available in the inventory for this grade level and MOS	I9	

NETWORK INPUT FILE
FILE 15, cont.

VALUE	The value associated with assigning personnel to this imaginary job. The 'PRE---' programs set this value to -10	I3
VALUE	Same as above	I3
NUMPEO	Same as above	I9

////////////////////////////////

SET THREE: END DEMAND RECORDS

////////////////////////////////

--END DEMAND RECORD

One per MOS

'ENDDEM'	Signal that the end of the demand section has been reached	A8	ENDDEM

////////////////////

SET FOUR: RESOURCE

////////////////////

--RESOURCE RECORD TYPE ONE

One for each MOS

MOS	Name of resource (for grade substitution; '-GRADE' is concatenated to MOS)	A8	76Y 11B-
NSUPST	Number of supersets to which this resource belongs; usually one	I3	
NJOBS	Number of jobs (ISSUES) to which this MOS can be assigned	I10	

NETWORK INPUT FILE
FILE 15, cont.

--RESOURCE RECORD TYPE TWO

SUPSET	Name of Superset (normally MOS) for linking MOS to jobs	A8

--RESOURCE RECORD TYPE THREE

NUMBEO	Minimum number of people in the aggregate that are available for assignment	I10
NUMPEO	Maximum number of people in the aggregate that are available for assignment; normally equal to NUMBEO	I10

--RESOURCE RECORD TYPE FOUR

NBYG	Minimum number of people in the aggregate that are available for assignment in the grade	I10
NBYG	Maximum number of people in the aggregate that are available for assignment in the grade	I10

--RESOURCE RECORD TYPE FIVE

One for each possible real job to which this MOS can be assigned

DEMAND	Job name	A8
GRAVAL	Value associated with job	I9
GRAMAX	Maximum number of people by grade that can be assigned to this job	I9

NOTE: These numbers are input as pairs similar to demand record type four

//////////////////////

SET FIVE: SUPER PEOPLE

//////////////////////

--SUPER PEOPLE RECORD TYPE ONE

One set for each MOS

'SP'-(MOS)	Name of super people. 'SP' is concatenated to the front of MOS	A8	
NSUPST	Number of Supersets to which this resource belongs	I3	NSUPST = 1
NJOBS	Number of jobs requiring this MOS	I10	

--SUPER PEOPLE RECORD TYPE TWO

SUPSET	Name of Supersets (MOS)	A8

--SUPER PEOPLE RECORD TYPE THREE

MINPEO	Minimum number of super people that must be assigned (normally zero)	I10
MAXPEO	Maximum number of super people that may be assigned. The 'PRE---' programs set this value equal to the total number of jobs in DEMAN	I10

--SUPER PEOPLE RECORD TYPE FOUR

One set for each grade

MINPEO	Minimum number of super people by grade (zero)	I10

MAXPEO	Maximum number of super people by grade. Usually equal to GRAMAX	I10

--SUPER PEOPLE RECORD TYPE FIVE

One for each possible job (DEMAN)

DEMAND	Job name	A8
GRAVAL	Value associated with filling this job with super people	I9
MAXNEO	Maximum number of super people by grade (GRAMAX)	I9

//////////////////////

SET SIX: END RESOURCE

//////////////////////

--END RESOURCE RECORD TYPE ONE

'ENDREC'	Signal that the end of the resource section has been reached	A7

PARAMETER FILE
FILE NUMBER 17

Record Length: 66 characters
Storage Medium: Mass Storage
Use: Input to all modules of all processors

Source File: N/A

This file contains three record types.

Name	Description	Position	Format
	(RECORD TYPE 1 - REQUIRED)		
	Mnemonic searched for:	1-6	A6
	ASOF MOSSUB GRDJOB NGRADE SCDSUB NONAVA NCHENL ENLSUB C1VALA NCHOFF OFFSYB C2VALA NCHWOF TYPSTR C3VALA NCCHAR MOSPEO C1VALM MOSJOB C2VALM GRDPEO C3VALM		
--	= sign	7	A1
ALPHA	Alphanumeric of 1 to 6 characters, left justified	8-13	A6
--	Filler	14	A1
DESCRI	Description	15-80	A66
	(RECORD TYPE 2 - REQUIRED - GRADE LOCATIONS)		
--	Filler	1-4	A4
GRADE	Two-character grade designation, the first of these should be the second after NGRADE	5-6	A2
--	= sign	7	A1
IGRADE	Relative location of grade data. If pay grade will not be specifically in the input files, this location should be set to zero	8-9	I2
--	Filler	10-14	A5
DESCRI	Description	15-80	A66
	(RECORD TYPE 3 - OPTIONAL - SUBSTITUTION INFORMATION)		
--	Filler	1	A1
FROM	'GRADE FROM' or ' MOS FROM' or ' SC FROM'	2-11	A10
--	= sign	12	A1
GRDFRM or MOSFRM	Grade or specialty the substitution is from	13-21	A9
TO	'GRADE TO' or ' MOS TO' or ' SC TO'	22-29	A8
--	= sign	30	A1
GRDTO or MOSTO	Grade or MOS the substitution is to	31-39	A9

VALUE FILE
FILE NUMBER 19

Record Length: 62 characters
Storage Medium: Mass Storage
Source File: N/A

First Use: Input to Policy Processor, Module 2.3, Set Base Values

Mnemonic	Description	Position	Format
ISSALP	'ISSUE='	1-6	A6
ISSUE	ISSUE code	7-10	A4
	Filler (blank)	11	A1
--	'MINIMUM='	12-19	A8
PERMIN	Minimum percentage fill stated as decimal rate	20-24	F5.3
--	Filler (blank)	25	A1
--	'MINVAL='	26-32	A7
VALUE	Value of filling each job up to minimum percentage	33-35	I3
--	Filler (blank)	36-38	A3
--	'MAXIMUM='	39-46	A8
PERMAX	Maximum percentage fill	47-51	F5.3
--	Filler (blank)	52	A1
--	'MAXVAL='	53-59	A7
VALUE2	Value of filling each job above the minimum percentage (PERMIN) up to the maximum (PERMAX)	60-62	I3

NUMBER OF PEOPLE FILE
FILE NUMBER 21

Record Length: 143 characters
Storage Medium: Mass Storage
Source File: N/A

First Use: Input to Assignment Processor, Subroutine PRENET

Name	Description	Position	Format
ASDAT	As of date of data	1-6	I6
CMF	Career management field	7-8	A2
MOS	MOS if enlisted data; SC if officer. As of Sep 83, only data for first 3 characters is available; space is provided for all 9	9-17	A9
NE1		18-24	I7
NE2		25-31	I7
NE3		32-38	I7
NE4		39-45	I7
NE5	Number of people available in each	46-52	I7
NE6	enlisted grade of E1 through E7	53-59	I7
NE7		60-66	I7
NE8		67-73	I7
NE9		74-80	I7
NENLIS	Total number of enlisted personnel E1 through E9	81-87	I7
NWO	Total number of warrant officers	88-94	I7
NO1		95-101	I7
NO2		102-108	I7
NO3	Number of officers in grade O1	109-115	I7
NO4	through O6	116-122	I7
NO5		123-129	I7
NO6		130-136	I7
NOFF	Total number of officers in grades O1 through O6	137-143	I7

UIC-DATA (6-DIGIT LEVEL) FILE
FILE NUMBER 22

Record Length: 97 characters
Storage Medium: Mass Storage Source File: N/A

First Use: Input to Preprocessor Module 1.1.1, Roll UIC data to 3-digit UIC level

Name	Description	Position	Format
--	Filler	1	A1
UIC	UIC code	2-7	A6
--	Filler	8-11	A4
COMPO	Component	12	A1
UNTDS	Unit description	13-33	A21
TYPCO	Unit type	34	A1
ASGMT	MACOM or organization	35-36	A2
TPSN	Troop program sequence number	37-41	A5
STACO	Station code	42-46	A5
STNNM	Station name	47-55	A9
LOCCO	Location code	56-58	A3
STSOFF	Required strength officers	59-62	I4
STSWOF	Required strength warrant officers	63-66	I4
STSENL	Required strength enlisted	67-70	I4
STSAGG	Required strength aggregate military	71-74	I4
STSCIV	Required strength civilian	75-78	I4
AUSOFF	Authorized strength officers	79-82	I4
AUSWOF	Authorized strength warrant officers	83-86	I4
AUSENL	Authorized strength enlisted	87-90	I4
AUSAGG	Authorized strength aggregate military	91-94	I4
AUSCIV	Authorized strength civilian	95-98	I4

UIC-DATA (3-DIGIT LEVEL) FILE
FILE NUMBER 23

Record Length: 97 characters
Storage Medium: Mass Storage Source File: 22

First Use: Output from Preprocessor, Module 1.1.1, Roll UIC data to 3-digit UIC level

Name	Description	Position	Format
UIC	UIC code	1-6	A6
--	Filler	7-10	A4
COMPO	Component	11	A1
UNTDS	Unit description	12-32	A21
TYPCO	Unit type	33	A1
ASGMT	MACOM or organization	34-35	A2
TPSN	Troop program sequence number	36-40	A5
STACO	Station code	41-45	A5
STNNM	Station name	46-54	A9
LOCCO	Location code	55-57	A3
STSOFF	Required strength officers	58-62	I5
STSWOF	Required strength warrant officers	63-67	I5
STSENL	Required strength enlisted	68-72	I5
STSAGG	Required strength aggregate military	73-77	I5
STSCIV	Required strength civilian (set to zero)	78-82	I5
AUSOFF	Authorized strength officers	83-87	I5
AUSWOF	Authorized strength warrant officers	88-92	I5
AUSENL	Authorized strength enlisted	93-97	I5
AUSAGG	Authorized strength aggregate military	98-102	I5
AUSCIV	Authorized strength civilian (set to zero)	103-107	I5

UIC-DATA (3-DIGIT WITH ISSUE ADDED) FILE
FILE NUMBER 24

Record Length: 97 characters
Storage Medium: Mass Storage

Source Files: 23, 25

First Use: Output from Preprocessor, Module 1.2, Set ISSUE

Name	Description	Position	Format
UIC	UIC code	1-6	A6
ISSUE	ISSUE code from ISSUE file	7-10	A4
COMPO	Component	11	A1
UNTDS	Unit description	12-32	A21
TYPCO	Unit type	33	A1
ASGMT	MACOM or organization	34-35	A2
TPSN	Troop program sequence number	36-40	A5
STACO	Station code	41-45	A5
STNNM	Station name	46-54	A9
LOCCO	Location code	55-57	A3
STSOFF	Required strength officers	58-62	I5
STSWOF	Required strength warrant officers	63-67	I5
STSENL	Required strength enlisted	68-72	I5
STSAGG	Required strength aggregate military	73-77	I5
STSCIV	Required strength civilian (set to zero)	78-82	I5
AUSOFF	Authorized strength officers	83-87	I5
AUSWOF	Authorized strength warrant officers	88-92	I5
AUSENL	Authorized strength enlisted	93-97	I5
AUSAGG	Authorized strength aggregate military	98-102	I5
AUSCIV	Authorized strength civilian (set to zero)	103-107	I5

UIC-DATA (3-DIGIT WITH ISSUE ADDED) FILE
FILE NUMBER 25

Record Length: 97 characters
Storage Medium: Mass Storage Source File: 24

First Use: Output from Preprocessor, Module 1.2, Set ISSUE

Name	Description	Position	Format
UIC	UIC code	1-6	A6
ISSUE	ISSUE code from ISSUE file	7-10	A4
COMPO	Component	11	A1
UNTDS	Unit description	12-32	A21
TYPCO	Unit type	33	A1
ASGMT	MACOM or organization	34-35	A2
TPSN	Troop program sequence number	36-40	A5
STACO	Station code	41-45	A5
STNNM	Station name	46-54	A9
LOCCO	Location code	55-57	A3
STSOFF	Required strength officers	58-62	I5
STSWOF	Required strength warrant officers	63-67	I5
STSENL	Required strength enlisted	68-72	I5
STSAGG	Required strength aggregate military	73-77	I5
STSCIV	Required strength civilian (set to zero)	78-82	I5
AUSOFF	Authorized strength officers	83-87	I5
AUSWOF	Authorized strength warrant officers	88-92	I5
AUSENL	Authorized strength enlisted	93-97	I5
AUSAGG	Authorized strength aggregate military	98-102	I5
AUSCIV	Authorized strength civilian (set to zero)	103-107	I5

MOS-ENLISTED FILE
FILE NUMBER 26

Record Length: 42 characters
Storage Medium: Mass Storage

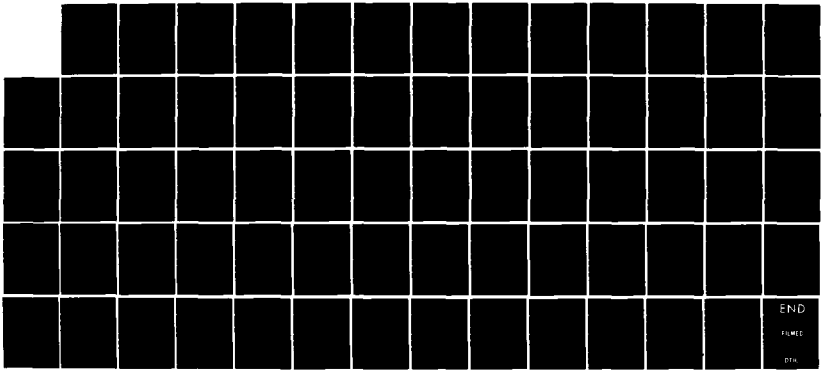
Source File: 8

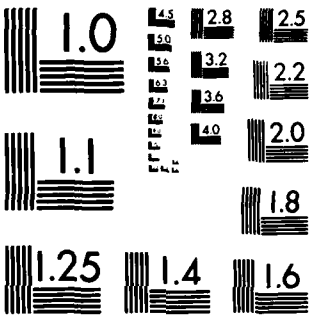
First Use: Output from Preprocessor, Module 1.1.2.1, Separate MOS Data

Name	Description	Position	Format
--	Filler	1	A1
UIC	6-Digit unit identification code	2-7	A6
--	Filler	8-14	A7
GRADE	Pay grade	15-16	A2
CMF	Career Management Field	17-18	A2
MOS	Military occupational specialty code	19-27	A9
--	Filler	28-31	A4
IDENT	Person identity code	32	A1
REQSTR	Required (structure) strength	33-35	I3
AUTSTR	Authorized strength	36-38	I3
--	Filler	39-42	A4

AD-A149 502 PERSONNEL READINESS INDICATOR MODEL (PRIM) DOCUMENTATION USER MANUAL(U) ARMY CONCEPTS ANALYSIS AGENCY BETHESDA MD S J VAN NOSTRAND ET AL. NOV 84 2/2

UNCLASSIFIED CAA-D-84-3 F/G 9/2 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

MOS-OFFICER FILE
FILE NUMBER 27

Record Length: 42 characters
Storage Medium: Mass Storage Source File: 8

First Use: Output from Preprocessor, Module 1.1.2.1, Separate MOS Data

Name	Description	Position	Format
--	Filler	1	A1
UIC	6-Digit unit identification code	2-7	A6
--	Filler	8-14	A7
GRADE	Pay grade	15-16	A2
CMF	Career Management Field	17-18	A2
MOS	Specialty code	19-27	A9
--	Filler	28-31	A4
IDENT	Person identity code	32	A1
REQSTR	Required (structure) strength	33-35	I3
AUTSTR	Authorized strength	36-38	I3
--	Filler	39-42	A4

MOS-WARRANT OFFICER FILE
FILE NUMBER 28

Record Length: 42 characters
Storage Medium: Mass Storage Source File: 8

First Use: Output from Preprocessor, Module 1.1.2.1, Separate MOS Data

Name	Description	Position	Format
--	Filler	1	A1
UIC	6-Digit unit identification code	2-7	A6
--	Filler	8-14	A7
GRADE	Pay grade	15-16	A2
CMF	Career Management Field	17-18	A2
MOS	Specialty code	19-27	A9
--	Filler	28-31	A4
IDENT	Person identity code	32	A1
REQSTR	Required (structure) strength	33-35	I3
AUTSTR	Authorized strength	36-38	I3
--	Filler	39-42	A4

MOS-DATA (AGGREGATED TO 3-DIGIT UIC LEVEL) FILE
FILE NUMBER 29

Record Length: 325 characters
Storage Medium: Mass Storage Source Files: 26, 27, 28

First Use: Output from Preprocessor, Module 1.1.2.2, Roll MOS to 3-digit UIC level

Name	Description	Position	Format
--	Filler	1	A1
UIC26	Characters 2-6 of UIC (5 and 6 are blank)	2-6	A5
--	Filler	7-10	A4
CMF	Career management field	11-12	A2
MOS	MOS	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-325	(see below)
GRADE	E1-E9, WO, O1-O6	(1-2)	A2
ASI	Additional skill identifier	(3-4)	A2
LIC	Language identification code	(5-6)	A2
IDENT	Person identity (M/F/O & grade)	(7)	A1
REQSTR	Required strength	(8-11)	I4
AUTSTR	Authorized strength	(12-15)	I4
--	Filler	(16-19)	I4

MOS-DATA (3-DIGIT WITH ISSUE CODE ADDED) FILE
FILE NUMBER 30

Record Length: 325 characters
Storage Medium: Mass Storage

Source File: 29

First Use: Output from Preprocessor, Module 1.2, Set ISSUE

Name	Description	Position	Format
--	Filler	1	A1
UIC24	Characters 2-4 of UIC (5 and 6 are blank)	2-6	A5
ISSUE	PRIM ISSUE code	7-10	A4
CMF	Career management field	11-12	A2
MOS	MOS	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-325	(see below)
GRADE	E1-E9, W0, 01-06	(1-2)	A2
ASI	Additional skill identifier	(3-4)	A2
LIC	Language identification code	(5-6)	A2
IDENT	Person identity (M/F/O & grade)	(7)	A1
REQSTR	Required strength	(8-11)	I4
AUTSTR	Authorized strength	(12-15)	I4
--	Filler	(16-19)	I4

MOS-DATA (AGGREGATED TO ISSUE LEVEL) FILE
FILE NUMBER 31

Record Length: 325 characters
Storage Medium: Mass Storage Source File: 30

First Use: Output from Preprocessor, Module 1.3, Aggregate MOS data to ISSUE level

Name	Description	Position	Format
--	Filler	1-6	A6
ISSUE	PRIM ISSUE code	7-10	A4
CMF	Career management field	11-12	A2
MOS	Specialty code	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-389	(see below)
GRADE	E1-E9, W0, O1-O6	(1-2)	A2
ASI	Additional skill identifier	(3-4)	A2
LIC	Language identification code	(5-6)	A2
IDENT	Person identity (M/F/0 & grade)	(7)	A1
REQSTR	Required strength	(8-13)	I6
AUTSTR	Authorized strength	(14-19)	I6
--	Filler	(20-23)	A4

AGGREGATED ISSUE POLICY FILE
FILE NUMBER 32

Record Length: 80
Storage Medium: Mass Storage
Source File: 92

First Use: Output from Policy Processor, Module 2.2A

Name	Description	Position	Format
POLTYP	Policy type='ISSUE'	1-5	A5
--	= sign	6	A1
ISSUE	ISSUE code of '00' level	7-10	A4
--	'LO='	11-13	A3
LOGRAD	Lowest grade to which policy applies	14-15	A2
--	'HI='	16-18	A3
HIGRAD	Highest grade to which policy applies	19-20	A2
--	'AG='	21-23	A3
AGG	'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	24-26	A3
--	'VALUE='	27-32	A6
VALUE	Fill value	33-35	I3
--	Filler	36-38	A3
--	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
--	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
--	'MOS='	57-60	A4
--	Blank	61-69	A9
--	Filler	70-80	A11

ISSUE POLICY FILE
FILE NUMBER 33

Record Length: 80
Storage Medium: Mass Storage Source File: 92

First Use: Output from Policy Processor, Module 2.2A

Name	Description	Position	Format
POLTYP	Policy type='ISSUE'	1-5	A5
--	= sign	6	A1
ISSUE	ISSUE code	7-10	A4
--	'LO='	11-13	A3
LOGRAD	Lowest grade to which policy applies	14-15	A2
--	'HI='	16-18	A3
HIGRAD	Highest grade to which policy applies	19-20	A2
--	'AG='	21-23	A3
AGG	'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	24-26	A3
--	'VALUE='	27-32	A6
VALUE	Fill value	33-35	I3
--	Filler	36-38	A3
--	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
--	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
--	'MOS='	57-60	A4
--	Blank	61-69	A9
--	Filler	70-80	A11

MOS POLICY FILE
FILE NUMBER 34

Record Length: 80
Storage Medium: Mass Storage

Source File: 92

First Use: Output from Policy Processor, Module 2.2A

Name	Description	Position	Format
POLTYP	Policy type='MOSSC'	1-5	A4
--	= sign	6	A1
--	Blank	7-10	A4
--	'LO='	11-13	A3
LOGRAD	Lowest grade to which policy applies	14-15	A2
--	'HI='	16-18	A3
HIGRAD	Highest grade to which policy applies	19-20	A2
--	'AG='	21-23	A3
AGG	'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	24-26	A3
--	'VALUE='	27-32	A6
VALUE	Fill value	33-35	I3
--	Filler	36-38	A3
--	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
--	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
--	'MOS='	57-60	A4
MOS	MOS or specialty code	61-69	A9
--	Filler	70-80	A11

CAA-D-84-3

COMBINED ISSUE & MOS POLICY FILE
FILE NUMBER 35

Record Length: 80
Storage Medium: Mass Storage Source File: 92

First Use: Output from Policy Processor, Module 2.2A, Apply Policies
(Reread as input to same module)

Name	Description	Position	Format
POLTYP	Policy type='ISSUE'	1-5	A5
--	= sign	6	A1
ISSUE	ISSUE	7-10	A4
--	'LO='	11-13	A3
LOGRAD	Lowest grade to which policy applies	14-15	A2
--	'HI='	16-18	A3
HIGRAD	Highest grade to which policy applies	19-20	A2
--	'AG='	21-23	A3
AGG	'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	24-26	A3
--	'VALUE='	27-32	A6
VALUE	Fill value	33-35	I3
--	Filler	36-38	A3
--	'MIN='	39-42	A4
PERMIN	Minimum percent fill .	43-47	F5.3
--	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
--	'MOS='	57-60	A4
MOS	MOS or specialty code	61-69	A9
--	Filler	70-80	A11

COMBINED ISSUE & MOS EXTRA JOB FILE
FILE NUMBER 36

Record Length: 325 characters
Storage Medium: Mass Storage

Source File: 31

First Use: Output from Policy Processor, Module 2.2A, Apply Combined Policies

Name	Description	Position	Format
DEMAN	Demand mode name	1-9	A9
--	Filler	10	A1
CMF	Career management field	11-12	A2
MOS	Specialty code	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-389	(see below)
GRADE	E1-E9, W0, 01-06	(1-2)	A2
ASI	Additional skill identifier	(3-4)	A2
LIC	Language identification code	(5-6)	A2
IDENT	Person identity (M/F/0 & grade)	(7)	A1
REQSTR	Required strength	(8-13)	I6
AUTSTR	Authorized strength	(14-19)	I6
--	Filler	(20-23)	A4

MOS EXTRA JOB FILE
FILE NUMBER 37

Record Length: 325 characters
Storage Medium: Mass Storage

Source File: 36

First Use: Output from Policy Processor, Module 2.28, Apply MOS Policies

Name	Description	Position	Format
DEMAN	Demand mode name	1-9	A9
--	Filler	10	A1
CMF	Career management field	11-12	
MOS	Specialty code	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-389	(see below)
GRADE	E1-E9, W0, 01-06	(1-2)	A2
ASI	Additional skill identifier	(3-4)	A2
LIN	Language identification code	(5-6)	A2
IDENT	Person identity (M/F/O & grade)	(7)	A1
REQSTR	Required strength	(8-13)	I6
AUTSTR	Authorized strength	(14-19)	I6
--	Filler	(20-23)	A4

ISSUE EXTRA JOB FILE
FILE NUMBER 38

Record Length: 325 characters
Storage Medium: Mass Storage
Source File: 37

First Use: Output from Policy Processor, Module 2.2C, Apply ISSUE Policies

Name	Description	Position	Format
DEMAN	Demand mode name	1-9	A9
--	Filler	10	A1
CMF	Career management field	11-12	A2
MOS	Specialty code	13-21	A9
GRDGRP	Grade group; repeats 16 items GRDGRP contains:	22-389	(see below)
GRADE	E1-E9, W0, O1-O6	(1-2)	A2
ASI	Additional skill identifier	(3-4)	A2
LIC	Language identification code	(5-6)	A2
IDENT	Person identity (M/F/O & grade)	(7)	A1
REQSTR	Required strength	(8-13)	I6
AUTSTR	Authorized strength	(14-19)	I6
--	Filler	(20-23)	A4

JOB ASSIGNMENT VALUE FILE
FILE NUMBER 39

Record Length: 452 characters
Storage Medium: Mass Storage
Source Files: 17, 33-38, 90

First Use: Output from Policy Processor, Module 2.2A, Apply Combined Policies

Name	Description	Position	Format
DEMAN	Demand mode name (ISSUE is first 4 characters)	1-9	A9
JMOS	Job MOS	10-18	A9
CMF	Job career management field	19-20	A2
LOGRAD	Lowest grade used in this record	21-22	A2
HIGRAD	Highest grade used in this record	23-24	A2
AGGFIL	Desired aggregate fill	25-30	I6
AGGMIN	Minimum aggregate fill	31-36	I6
AGGMAX	Maximum aggregate fill	37-42	I6
AGGVAL	Value of filling to this aggregate level	43-48	I6
GRVAGR	Grade value group - repeats 16 times Included in this designation are:	49-452	16(4I6)
GRAFIL	Desired fill for this grade (I6)		
GRAMIN	Minimum fill for this grade (I6)		
GRAMAX	Maximum fill for this grade (I6)		
GRAVAL	Value of fill in this grade (I6)		

JOB ASSIGNMENT VALUE FILE
FILE NUMBER 40

Record Length: 452 characters
Storage Medium: Mass Storage
Source Files: 19, 38, 39

First Use: Output from Policy Processor, Module 2.2B, Apply MOS Policies

Name	Description	Position	Format
DEMAN	Demand mode name (ISSUE is first 4 characters)	1-9	A9
JMOS	Job MOS	10-18	A9
CMF	Job career management field	19-20	A2
LOGRAD	Lowest grade used in this record	21-22	A2
HIGRAD	Highest grade used in this record	23-24	A2
AGGFIL	Desired aggregate fill	25-30	I6
AGGMIN	Minimum aggregate fill	31-36	I6
AGGMAX	Maximum aggregate fill	37-42	I6
AGGVAL	Value of filling to this aggregate level	43-48	I6
GRVAGR	Grade value group - repeats 16 times Included in this designation are:	49-452	16(4I6)
GRAFIL	Desired fill for this grade (I6)		
GRAMIN	Minimum fill for this grade (I6)		
GRAMAX	Maximum fill for this grade (I6)		
GRAVAL	Value of fill in this grade (I6)		

EXCESS PEOPLE (FROM REGULAR ASSIGNMENT) FILE
FILE NUMBER 41

Record Length:
Storage Medium: Mass Storage Source File: 2

First Use: Output from Assignment Processor, Subroutine PRENET and PSTNET

Name	Description	Position	Format
MOS	MOS or specialty code	1-9	A9
NUMEXC	Number of unassigned people by grade (location of each grade is that specified by Parameter File)	10-105	16(I6)

EXCESS PEOPLE (FROM MOS SUBSTITUTION) FILE
FILE NUMBER 42

Record Length:
Storage Medium: Mass Storage Source Files: 2, 44

First Use: Output from Substitute Assignment Processor, Module 4.2, MOS Substitution

Name	Description	Position	Format
MOS	MOS or specialty code	1-9	A9
NUMEXC	Number of unassigned people by grade (location of each grade is that specified by Parameter File)	10-105	16(I6)

EXCESS PEOPLE (FROM GRADE SUBSTITUTION) FILE
FILE NUMBER 43

Record Length:
Storage Medium: Mass Storage Source Files: 2, 44

First Use: Output from Substitute Assignment Processor, Module 4.1, Grade Substitution

Name	Description	Position	Format
MOS	MOS or specialty code	1-9	A9
NUMEXC	Number of unassigned people by grade (location of each grade is that specified by Parameter File)	10-105	16(I6)

EXCESS PEOPLE (SCRATCH) FILE
FILE NUMBER 44

Record Length:
Storage Medium: Mass Storage

Source Files: 2, 42, 43

First Use: Scratch file for Assignment Processor

Name	Description	Position	Format
MOS	MOS or specialty code	1-9	A9
NUMEXC	Number of unassigned people by grade (location of each grade is that specified by Parameter File)	10-105	16(I6)

UNFILLED JOBS (FROM POLICY PROCESSOR) FILE
FILE NUMBER 50

Record Length: 98 characters
Storage Medium: Mass Storage Source File: 38

First Use: Output from Policy Processor, Module 2.3, Set Base Values

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
MOS	MOS or specialty code	10-18	A9
NUMUNF	Number of unfilled jobs by grade	19-114	16(I6)

UNFILLED JOBS (FROM REGULAR ASSIGNMENT) FILE
FILE NUMBER 51

Record Length: 98 characters
Storage Medium: Mass Storage
Source File: 2 or 40, 61

First Use: Output from Assignment Processor, Subroutines PRENET and PSTNET

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
MOS	MOS or specialty code	10-18	A9
NUMUNF	Number of unfilled jobs by grade	19-114	16(I6)

UNFILLED JOBS (FROM MOS SUBSTITUTION) FILE
FILE NUMBER 52

Record Length: 98 characters
Storage Medium: Mass Storage
Source File: 51, 53

First Use: Output from Substitute Assignment Processor, Module 4.2, MOS Substitution

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
MOS	MOS or specialty code	10-18	A9
NUMUNF	Number of unfilled jobs by grade	19-114	16(I6)

UNFILLED JOBS (FROM GRADE SUBSTITUTION) FILE
FILE NUMBER 53

Record Length: 98 characters
Storage Medium: Mass Storage
Source File: 51, 52

First Use: Output from Substitute Assignment Processor, Module 4.1, Grade Substitution

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
MOS	MOS or specialty code	10-18	A9
NUMUNF	Number of unfilled jobs by grade	19-114	16(I6)

UNFILLED JOBS (SCRATCH) FILE
FILE NUMBER 54

Record Length: 98 characters
Storage Medium: Mass Storage
Source File: 51, 52, 53

First Use: Scratch File for Substitute Assignment Processor

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
MOS	MOS or specialty code	10-18	A9
NUMUNF	Number of unfilled jobs by grade	19-114	16(I6)

ASSIGNMENT FROM REGULAR ASSIGNMENT FILE
FILE NUMBER 61

Record Length: 43 characters
Storage Medium: Mass Storage

Source File: 2

First Use: Output from Assignment Processor, Subroutine PSTNET

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
--	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
--	Filler	20	1X
MOSACT	Actual MOS filling demand	21-29	A9
--	Filler	30	1X
GRDREQ	Grade required for demand	31-32	A2
--	Filler	33	1X
GRDACT	Actual grade filling demand	34-35	A2
--	Filler	36	1X
ASSSTR	Assigned strength	37-43	I7

ASSIGNMENT (FROM MOS SUBSTITUTION) FILE
FILE NUMBER 62

Record Length: 43 characters
Storage Medium: Mass Storage
Source File: 61, 63

First Use: Output from Substitute Assignment Processor, Module 4.2, MOS Substition

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
--	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
--	Filler	20	1X
MOSACT	Actual MOS filling demand	21-29	A9
--	Filler	30	1X
GRDREQ	Grade required for demand	31-32	A2
--	Filler	33	1X
GRDACT	Actual grade filling demand	34-35	A2
--	Filler	36	1X
ASSSTR	Assigned strength	37-43	I7

ASSIGNMENT (FROM GRADE SUBSTITUTION) FILE
FILE NUMBER 63

Record Length: 43 characters
Storage Medium: Mass Storage
Source File: 61, 62

First Use: Output from Substitute Assignment Processor, Module 4.1, Grade Substitution

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 5 characters)	1-9	A9
--	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
--	Filler	20	1X
MOSACT	Actual MOS filling demand	21-29	A9
--	Filler	30	1X
GRDREQ	Grade required for demand	31-32	A2
--	Filler	33	1X
GRDACT	Actual grade filling demand	34-35	A2
--	Filler	36	1X
ASSSTR	Assigned strength	37-43	I7

DETAILED READINESS INDICATORS
FILE NUMBER 64

Record Length: 68 characters
Storage Medium: Mass Storage
Source File: 31, 61

First Use: Output from Readiness Processor

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
--	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
--	Filler	20	1X
GRDREQ	Grade required for demand	21-22	A2
REQSTR	Required strength	23-28	I6
AUTSTR	Authorized strength	29-34	I6
ASSSTR	Assigned strength	35-40	I6
AVASTR	Available people	41-46	I6
ASPEAU	ASSSTR/AUTSTR*100	47-53	F7.1
AVPEAU	AVASTR/AUTSTR*100	54-60	F7.1
AVPERE	AVASTR/REQSTR*100	61-67	F7.1

DETAILED READINESS INDICATORS USING MOS SUBSTITUTION
FILE NUMBER 65

Record Length: 68 characters
Storage Medium: Mass Storage
Source File: 62

First Use: Output from Readiness Processor

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
--	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
--	Filler	20	1X
GRDREQ	Grade required for demand	21-22	A2
REQSTR	Required strength	23-28	I6
AUTSTR	Authorized strength	29-34	I6
ASSSTR	Assigned strength	35-40	I6
AVASTR	Available people	41-46	I6
ASPEAU	ASSSTR/AUTSTR*100	47-53	F7.1
AVPEAU	AVASTR/AUTSTR*100	54-60	F7.1
AVPERE	AVASTR/REQSTR*100	61-67	F7.1

NOTE: For File 65, REQSTR, AUTSTR, ASPEAU, AVPEAU, AVPERE equal zero; a matching record in file 64 holds these data.

DETAILED READINESS INDICATORS USING GRADE SUBSTITUTION
FILE NUMBER 66

Record Length: 67 characters
Storage Medium: Mass Storage

Source File: 63

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
--	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
--	Filler	20	1X
GRDREQ	Grade required for demand	21-22	A2
REQSTR	Required strength	23-28	I6
AUTSTR	Authorized strength	29-34	I6
ASSSTR	Assigned strength	35-40	I6
AVASTR	Available people	41-46	I6
ASPEAU	ASSSTR/AUTSTR*100	47-53	F7.1
AVPEAU	AVASTR/AUTSTR*100	54-60	F7.1
AVPERE	AVASTR/REQSTR*100	61-67	F7.1

NOTE: For File 66, REQSTR, AUTSTR, ASPEAU, AVPEAU, AVPERE equal zero; a matching record in file 64 holds these data.

TOTAL RESULTS OF READINESS PROCESSOR MOS SUBSTITUTION
FILE NUMBER 67

Record Length: 67 characters
Storage Medium: Mass Storage

Source File: 61, 65

Name	Description	Position	Format
DEMAN	Demand node name (ISSUE code is first 4 characters)	1-9	A9
--	Filler	10	1X
MOSREQ	MOS required for demand	11-19	A9
--	Filler	20	1X
GRDREQ	Grade required for demand	21-22	A2
REQSTR	Required strength	23-28	I6
AUTSTR	Authorized strength	29-34	I6
--	Filler	35-40	A6
AVASTR	Available people	41-46	I6
ASPEAU	ASSSTR/AUTSTR*100	47-53	F7.1
AVPEAU	AVASTR/AUTSTR*100	54-60	F7.1
AVPERE	AVASTR/REQSTR*100	61-67	F7.1

NOTE: This file is equivalent to the sum of file 61 and file 65.

AGGREGATED READINESS INDICATOR FILE
FILE NUMBER 70

Record Length: 128 characters
Storage Medium: Mass Storage
Source File: 40, 61

First Use: Output from Readiness Processor

Name	Description	Position	Format
ISSUE	ISSUE code	1-4	A4
AGGREQ	Aggregate required strength	5-10	I6
AGGAUT	Aggregate authorized strength	11-16	I6
AGGASS	Aggregate assigned strength	17-22	I6
AGGAVA	Aggregate available strength	23-28	I6
H5REAG	High 5 required aggregate	29-34	I6
H5AUAG	High 5 authorized aggregate	35-40	I6
H5ASAG	High 5 assigned aggregate	41-46	I6
H5AVAG	High 5 available aggregate	47-52	I6
AGRESE	Senior grade required aggregate	53-58	I6
AGAUSE	Senior grade authorized aggregate	59-64	I6
AGASSE	Senior grade assigned aggregate	65-70	I6
AGAVSE	Senior grade available aggregate	71-76	I6
AGREOK	Correct MOS required aggregate	77-82	I6
AGAUOK	Correct MOS authorized aggregate	83-88	I6
AGASOK	Correct MOS assigned aggregate	89-94	I6
AGAVOK	Correct MOS available aggregate	95-100	I6
NUMPER	MINPER*AGGAUT	101-106	I6
MISGOR	NUMPER-AGGREQ	107-112	I6
MISGOA	NUMPER-AGGAUT	113-118	I6
PERMIN	PERMIN from base Value File	119-122	F4.2
PERMAX	PERMAX from base Value File	123-126	F4.2

AGGREGATED PERCENTAGE AND C-RATING FILE
FILE NUMBER 72

Record Length: 80 characters
Storage Medium: Mass Storage
Source File: 70

First Use: Output from Readiness Processor

Name	Description	Position	Format
ISSUE	ISSUE code	1-4	A4
--	Filler	5	A1
	Percentages		
REASPE	(AGGASS/AGGREQ)*100	6-12	F7.1
REAVPE	(AGGAVA/AGGREQ)*100	13-19	F7.1
AUASPE	(AGGASS/AGGAUT)*100	20-26	F7.1
H5REPE	(H5AVAG/H5REAG)*100	27-33	F7.1
H5AUPE	(H5ASAG/H5AUAG)*100	34-40	F7.1
AVSEPE	(AGAVSE/AGRESE)*100	41-47	F7.1
ASSEPE	(AGASSE/AGAUSE)*100	48-54	F7.1
APREOK	(AGAVOK/AGGREQ)*100	55-61	F7.1
APAUOK	(ASASOK/AGGAUT)*100	62-68	F7.1
	C-ratings		
REAVC	Based on REAVPE (aggregate)	69-70	I2
REASC	Based on REASPE (aggregate)	71-72	I2
AUASC	Based on AUASPE (aggregate)	73-74	I2
AVSEC	Based on ASEPE (senior grade)	75-76	I2
OKMOSC	Based on APREOK (correct MOS)	77-78	I2
ISCRAT	Overall C-rating. Based on lowest of REAVC, REASC, AUSEC, and MOSC	79-80	I2

GRADE READINESS AND PERCENTAGE FILE
FILE NUMBER 73

Record Length: 44 characters
Storage Medium: Mass Storage

Source File: 40, 61, 65

First Use: Output from Readiness Processor

Name	Description	Position	Format
ISSUE	ISSUE code	1-4	A4
GRADE	Grade code	5-6	A2
AGREGR	Aggregate required over all MOS	7-12	I6
AGAUGR	Aggregate authorized over all MOS	13-18	I6
AGASGR	Aggregate assigned over all MOS	19-24	I6
AGAVGR	Aggregate available over all MOS	25-30	I6
PEREGR	(AGAVGR/AGREGR)*100	31-37	F7.1
PEAUGR	(AGASGR/AGAUGR)*100	38-44	F7.1

MOS READINESS, PERCENTAGE, AND C-RATING FILE
FILE NUMBER 74

Record Length: 87 characters
Storage Medium: Mass Storage
Source File: 40, 61, 63

First Use: Output from Readiness Processor

Name	Description	Position	Format
ISSUE	ISSUE code	1-4	A4
MOS	MOS or specialty code	5-13	A9
--	Filler	14-15	A2
AGREMO	Aggregate required over all grades	16-21	I6
AGAUMO	Aggregate authorized over all grades	22-27	I6
AGASMO	Aggregate assigned over all grades	28-33	I6
AGAVMO	Aggregate available over all grades	34-39	I6
MPERRE	(AGAVMO/AGREMO)*100	40-46	F7.1
MPERAU	(AGASMO/AGAUMO)*100	47-53	F7.1
H5REMO	High five required	54-59	I6
H5AUMO	High five authorized	60-65	I6
H5ASMO	High five assigned	66-71	I6
H5AVMO	High five available	72-77	I6
	C-ratings		
RMOSC	Based on MPERRE	78-79	I2
AMOSC	Based on MPERAU	80-81	I2

STRENGTH BY GRADE PRINT FILE
FILE NUMBER 85

Record Length: Formated for printer, maximum length = 132 characters
Storage Medium: Mass Storage Source File: 30

First Use: Output from Preprocessor, Module 1.3, Aggregate MOS-data to ISSUE level

Name	Description	Position	Format
--	Filler (carriage space control)	1	A1
ISSUE	ISSUE code	2-5	A4
--	Filler	6	1X
AGGREQ	Aggregate required strength	7-15	I9
AGGAUT	Aggregate authorized strength	16-24	I9
--	Filler		2X
GRADE	Pay grade or rank, *E1-E9, W0, O1-O6*	repeated	A2
AGREGR	Aggregate required for grade	as	I5
AGAUGR	Aggregate authorized for grade	necessary	I5

STRENGTH BY MOS PRINT FILE
FILE NUMBER 86

Record Length: Formated for printer - maximum length = 132 characters
Storage Medium: Mass Storage Source File: 30

First Use: Output from Preprocessor, Module 1.3, Aggregate MOS data to ISSUE level

Name	Description	Position	Format
--	Carriage control	1	1X
ISSUE	ISSUE code	2-5	A4
--	Filler	6-8	3X
CMF	Career Management Field	9-10	A2
--	Filler	11-13	3X
MOS	Military occupational specialty	14-22	A9
--	Filler	23	1X
AGREMO	Aggregate required for MOS	24-31	I12
AGAUMO	Aggregate authorized for MOS	32-40	I12

CAA-D-84-3

AGGREGATED ISSUE INDICATOR FILE
FILE NUMBER 90

Record Length: 405 characters
Storage Medium: Mass Storage Source File: 32

First Use: Output from Policy Processor, Module 2.2 A, Apply Combined Policies

Name	Description	Position	Format
ISSUE	Code for ISSUE. In this file, characters 2-3 = 00 and character 4 = blank or -	1-4	A4
AGIND	Grade aggregations dimension (16, 3) ((I,J), J=1,3), I = 1,8) (I,1) = low grade (I,2) = high grade (I,3) = value of assignment	5-76	24(I3)
AGPER	Aggregate percentages (I,1) = minimum percent (I,2) = maximum percent	77-156	16(F5.3)
USEGRD	Indicator of inclusion, one per grade dimension (16)	157-172	16(I1)
COMPUT	Indicator for individual grade policy dimension (16)	173-188	16(I1)
VALGRD	Value of assignment at this grade dimension (16)	189-284	16(I6)
PERIND	Percentages for each grade dimension (16, 2) (I,1) = minimum percentage (I,2) = maximum percentage	285-444	32(F5.3)

POLICY FILE
FILE NUMBER 91

Record Length: 80 characters
Storage Medium: Mass Storage
Source File: N/A

First Use: Input to Policy Processor, Module 2.1, Edit Policy File

Name	Description	Position	Format
POLTYP	Policy type. One of: 'ISSUE' 'MOSSC'	1-5	A5
--	= sign	6	A1
ISSUE	ISSUE code	7-10	A4
--	'LO='	11-13	A3
LOGRAD	Lowest grade to which policy applies	14-15	A2
--	'HI='	16-18	A3
HIGRAD	Highest grade to which policy applies	19-20	A2
--	'AG='	21-23	A3
AGG	'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	24-26	A3
--	'VALUE='	27-32	A6
VALUE	Fill value	33-35	I3
--	Filler	36-38	A3
--	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
--	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
--	'MOS='	57-60	A4
MOS	MOS or specialty code	61-69	A9
--	Filler	70-80	A11

EDITED POLICY FILE
FILE NUMBER 92

Record Length: 80 characters
Storage Medium: Mass Storage
Source File: 91

First Use: Output from Policy Processor, Module 2.1, Edit Policy

Name	Description	Position	Format
POLTYP	Policy type. One of: 'ISSUE' 'MOSSC'	1-5	A5
--	= sign	6	A1
ISSUE	ISSUE code	7-10	A4
--	'LO='	11-13	A3
LOGRAD	Lowest grade to which policy applies	14-15	A2
--	'HI='	16-18	A3
HIGRAD	Highest grade to which policy applies	19-20	A2
--	'AG='	21-23	A3
AGG	'YES' if policy is to aggregate 'NO ' if policy is not to aggregate	24-26	A3
--	'VALUE='	27-32	A6
VALUE	Fill value	33-35	I3
--	Filler	36-38	A3
--	'MIN='	39-42	A4
PERMIN	Minimum percent fill	43-47	F5.3
--	'MAX='	48-51	A4
PERMAX	Maximum percent fill	52-56	F5.3
--	'MOS='	57-60	A4
MOS	MOS or specialty code	61-69	A9
--	Filler	70-80	A11

REPORT REQUEST FILE
FILE NUMBER 93

Record Length:
Storage Medium: Mass Storage Source File: N/A

First Use: Input to Report Processor

Name	Description	Position	Format
REPNUM	Report number	1-2	A2
--	Filler	3	A1
YES/NO	'Yes' or 'no'	4-6	A3
--	Filler	7	A1
WHICH	Report type: 'MOS', 'All', 'ORIGINAL', , 'MOS SUB', 'Grade Sub', or ISSUE code when report number is 03, 08, 10, or 11; which=blank when repot number is 01, 02, 04, 05, 06, 07 or 09	8-19	A12
--	Filler	20	A1
REPNAM	Report name	21-81	A61

*Please refer to section 2.4.6 and Appendix C, section 5 for a full description on the use of this file.

APPENDIX B

USER DEFINED FILES

B.1 ISSUE DEFINITION FILE

a. Purpose. The ISSUE Definition file specifies the unit aggregation level and the method PRIM will use to locate the correct units. Two additional aggregation levels are specified by the combinations of characters used in the ISSUE code.

b. ISSUE Code Development. The ISSUE code is always four characters as shown in the example ISSUE Definition file, Figure B-1. The first character of the ISSUE code represents the highest aggregation level that is less than the total Army; many of the reports provide totals for every set of ISSUEs that have the same first character. Readiness reports containing "Aggregated ISSUE" in the title will sum all data with the same first character and report only the totals. The second and third characters are used to specify a second aggregation level. When ISSUEs share the same first three characters of the ISSUE code, they will be subtotaled on output reports. The fourth character of individual ISSUEs that do not belong to other ISSUEs at the second level should be the special character of "-", dash (also called hyphen or minus). A graphic representation of this hierarchy is shown in Figure B-2. In the example ISSUE Definition file, CONUS divisions are the lowest aggregation level. Since CONUS divisions are in specific geographic locations (in the example location is the second aggregation level), the fourth character of the code is alphabetic, not dash. The units that are colocated are specified with the same characters 1, 2, and 3; the one with a geographic name has a dash (-) for the fourth character, and that name will be used as a title for the subtotals. Included in that ISSUE will be nondivisional units and TDAs that are located there. The third (highest) aggregation level (in the example MACOM) is designated by the first character. The relationships between the aggregation levels of the example are shown in Figure B-3. The network assignment program and the report programs need a name for the third aggregation level. This is entered in the file by placing XOO-(where X stands for any aggregation desired; the example uses MACOMs or CONUS) in the ISSUE code space and the desired name in the correct space, with other fields unspecified. To allow programs to proceed, the programs assign an ISSUE code of "----" to any units not otherwise assigned an ISSUE. Therefore, a dummy entry for both the XOO-and the "----" has been included in the example.

c. Conditions and Requirements

(1) An individual ISSUE may contain one or many units.

(2) Different numbers of units may be in each ISSUE.

(3) A PRIM policy will be applied to ISSUEs, not to individual units. If ISSUEs are defined as individual units, the policy will be indirectly applied to individual units by being applied to an ISSUE which is an aggregate of one unit only.

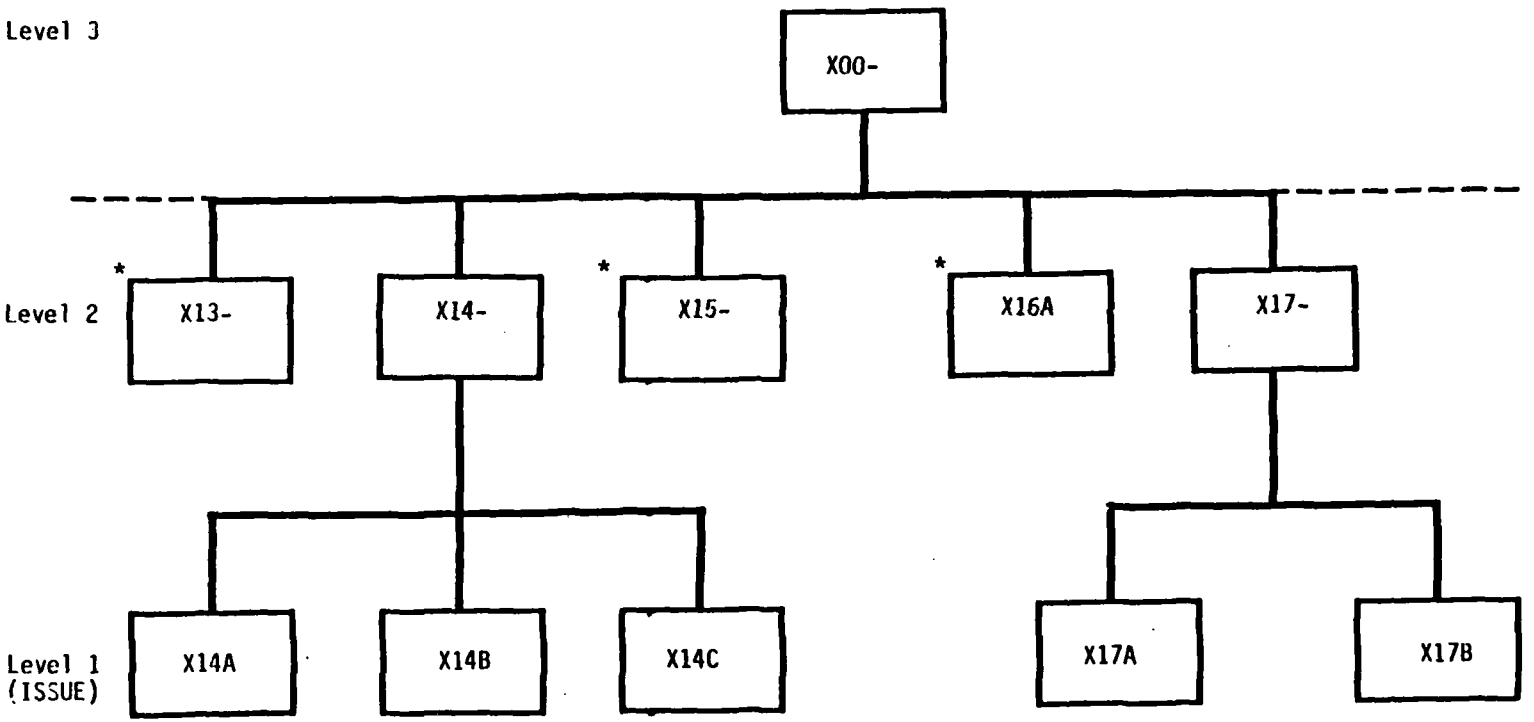
```
                    P R I M   I S S U E   F I L E

ISSUE=-00-                                              NAME=NO UIC ERROR
ISSUE=----ID1=UIC3  =       ID2=       =                NAME=BLANK-UIC
ISSUE=    ID1=UIC3  =       ID2=       =                NAME=BLANK-UIC

ISSUE=C00-                                              NAME=CONUS (OTHER)
ISSUE=C01-ID1=ASGMT =SA     ID2=       =                NAME=ARMY SECRETARY
ISSUE=C02-ID1=ASGMT =SF     ID2=       =                NAME=ARMY STAFF
ISSUE=C03-ID1=ASGMT =RC     ID2=       =                NAME=USAREC
ISSUE=C04-ID1=ASGMT =MA     ID2=       =                NAME=USMA
ISSUE=C05-ID1=ASGMT =DF     ID2=       =                NAME=DEFENSE ACTIV
ISSUE=C06-ID1=ASGMT =JA     ID2=       =                NAME=JOINT ACTIVITY
ISSUE=C07-ID1=ASGMT =PC     ID2=       =                NAME=MEPCOM
ISSUE=C08-ID1=ASGMT =CM     ID2=       =                NAME=COMPUTER SYST
ISSUE=C09-ID1=ASGMT =SC     ID2=       =                NAME=BALLISTIC MIS
ISSUE=C10-ID1=ASGMT1=X      ID2=       =                NAME=DARCOM
ISSUE=C11-ID1=ASGMT =MW     ID2=       =                NAME=MDW
ISSUE=C12-ID1=ASGMT =HS     ID2=       =                NAME=HEALTH SERVICES
ISSUE=C13-ID1=ASGMT =CC     ID2=       =                NAME=ACC
ISSUE=C14-ID1=ASGMT =AS     ID2=       =                NAME=INSCOM
ISSUE=C15-ID1=UIC3  =A4A    ID2=       =                NAME=OLD GUARD
ISSUE=C16-ID1=UIC3  =3ST    ID2=       =                NAME=SITE R
ISSUE=C17-ID1=UIC3  =CUM    ID2=       =                NAME=MDW MP CO
ISSUE=C18-ID1=ASGMT =CB     ID2=       =                NAME=CID
ISSUE=C19-ID1=ASGMT =AG     ID2=       =                NAME=ADJUTANT GEN
ISSUE=C20-ID1=ASGMT =CE     ID2=       =                NAME=CHIEF OF ENGR
ISSUE=C21-ID1=ASGMT =CS     ID2=       =                NAME=CHIEF OF STAFF
ISSUE=C22-ID1=ASGMT =MD     ID2=       =                NAME=SURGEON GEN
ISSUE=C23-ID1=ASGMT =MP     ID2=       =                NAME=MILPERCEN
ISSUE=C24-ID1=ASGMT =MT     ID2=       =                NAME=MTMC
ISSUE=C25-ID1=UIC3  =CYL    ID2=       =                NAME=SPEC MP CO
ISSUE=C25-ID1=UIC3  =CWB    ID2=       =                NAME=SPEC MP CO
ISSUE=C25-ID1=UIC3  =C4L    ID2=       =                NAME=SPEC MP CO
ISSUE=C25-ID1=UIC3  =FH4    ID2=       =                NAME=SPEC MP CO
ISSUE=C26-ID1=ASGMT =AU     ID2=       =                NAME=ARMY AUDIT AG
ISSUE=C27-ID1=ASGMT =GB     ID2=       =                NAME=NATL GUARD BU

ISSUE=E00-                                              NAME=USAREUR
ISSUE=E01-ID1=TPSN  =02001  ID2=       =                NAME=1ST ARM DIV
ISSUE=E02-ID1=TPSN  =02003  ID2=       =                NAME=3RD ARM DIV
ISSUE=E03-ID1=TPSN  =04008  ID2=       =                NAME=8TH INF DIV
ISSUE=E04-ID1=TPSN  =04003  ID2=       =                NAME=3RD INF DIV
ISSUE=E05-ID1=ASGMT =EH     ID2=       =                NAME=56TH FA BGD
ISSUE=E99-ID1=ASGMT1=E      ID2=       =                NAME=OTHER USAREUR
ISSUE=E99AID1=TPSN  =04004  ID2=ASGMT  =E5              NAME=4TH MECH-EUR
ISSUE=E99BID1=TPSN  =02002  ID2=ASGMT  =EP              NAME=2ND ARM-EUR
ISSUE=E99CID1=TPSN  =04001  ID2=LOCCO  =GE              NAME=1ST MECH-EUR
```

Figure B-1. ISSUE File Example



*When there is no need for both level 1 and level 2, the ISSUE may be coded with either a dash or an alphabetic character in the fourth position.

Figure B-2. Aggregation Hierarchy

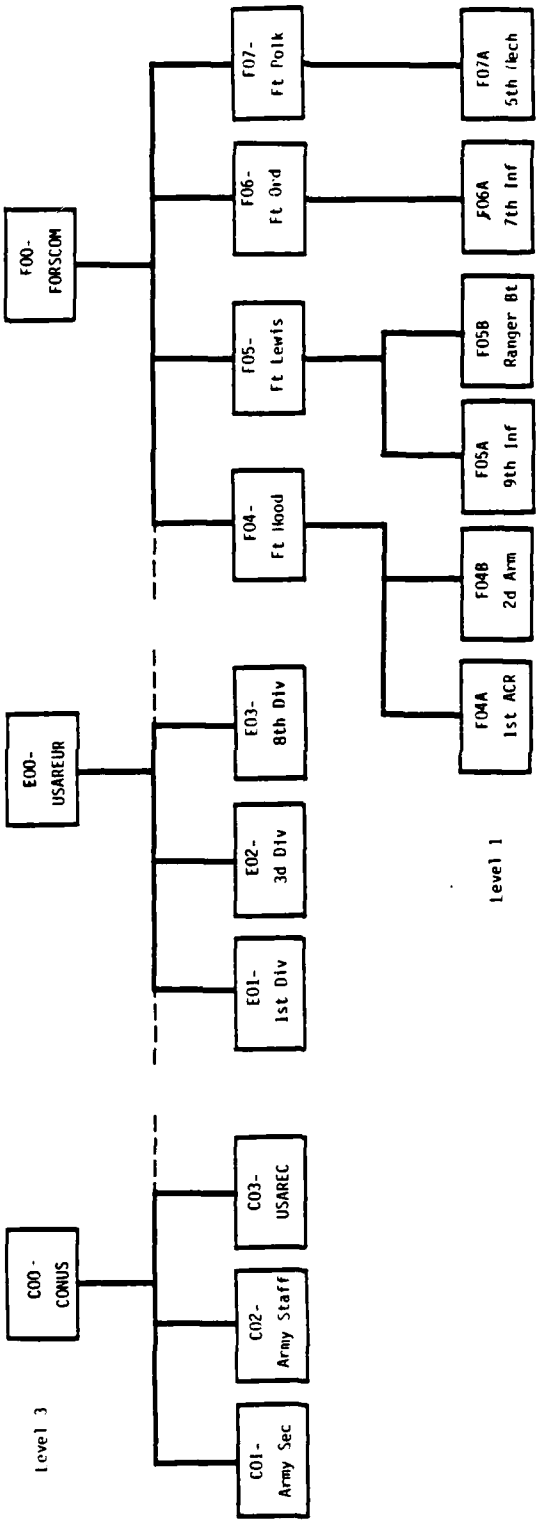


Figure B-3. Hierachy of Example

(4) The maximum number of ISSUEs that may be defined for one run is 300.

(5) A PRIM policy may apply to more than one ISSUE (See Section B.3 Policy file)

(6) If necessary, multiple combinations of identification methods may be used for each ISSUE, but each method should uniquely identify a subset of units.

(7) Units may not be included in more than one ISSUE.

(8) All units should be included in an ISSUE.

d. Data Entries. The format is described in the file description for file 14, ISSUE Definition file. The unnamed fields such as "ISSUE=" must be on each definition record; all records without these fields will be ignored. ID1, ID1VAL, ID2, ID2VAL, and ISSNAM must be left justified. All fields except ID2 and ID2VAL are required as described below. Valid combinations of ID1 and ID2 are shown in Table B-1. The sequence is the processing sequence and the reset variable indicates whether an ISSUE will be reset during that process if it had been set during a previous process.

Field	Needed for
ISSUE Code	Data aggregated to the desired level is labeled with the ISSUE code.
ID1	At least one method of identification must be provided for each ISSUE code. See Table B-1 for the valid combinations of ID1 and ID2.
ID1 Value	In addition to the method, one or more specific values which are unique to the desired units must be specified.
ID2	A second identification method is only required when it is impossible to uniquely identify the units using ID1. If it is not needed, this field may be blank. See Table B-1 for valid ID2 variables.
ID2 Value	When a second identification method is specified, the associated value(s) must also be specified. If ID2 is blank, ID2 value should also be blank.
ISSUE Name	The report programs use this name for print purposes.

Table B-1. ISSUE Identification Methods

Sequence	ID1	ID2	Reset
1	TPSN	ASGMT	N/A
2	TPSN	LOCCO	Yes
3	TPSN	STACO	Yes
4	TPSN	-	No
5	UIC3	-	Yes
6	ASGMT	LOCCO	No
7	ASGMT	STACCO	No
8	ASGMT	-	No
9	ASGMT1	-	No

B.2 PARAMETER FILE

a. Purpose. The Parameter file provides the user with maximum flexibility. Much of the program logic such as number of characters desired in an MOS, the amount of assignment substitution allowed, and the cut-points for readiness ratings is controlled by entries in the Parameter file.

b. Conditions and Requirements

(1) All variables described below must be provided.

(2) Parameter file records must be in the exact format described in the file description for file number 17, Parameter file. An example of the Parameter file is shown in Figure B-4. Blank records or comment records may be added; they must not mimic the format of another required record.

(3) Except for the relationship between NGRADE and the valid grade names, the Parameter file records may be in any order.

c. Data Entries. This section provides an expanded description of the data required for record type 1, and of the relationships between record type 1 and record type 2 or 3. See the file description for the Parameter file (file 17) for the format of record types 2 and 3. All entries for record type 1 and for record type 2 are required; record type 3 is required only when assignment substitution is requested.

```
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - -                                                             - - -
- - -          P R I M   P A R A M E T E R   F I L E              - - -
- - -                                                             - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ASOF   =860930 AS OF DATE TO SELECT FROM AUTHORIZATIONS
               SELECTION LOGIC IS:  TDATE < ASOF <= EDATE
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
NGRADE=13:     NUMBER OF DISTINCT GRADES ON INVENTORY DATA

    E1=00:     LOCATION OF E1 DATA IN GRADE-DATA
    E2=00:     LOCATION OF E2 DATA IN GRADE-DATA
    E3=01:     LOCATION OF E3 DATA IN GRADE-DATA
    E4=02:     LOCATION OF E4 DATA IN GRADE-DATA
    E5=03:     LOCATION OF E5 DATA IN GRADE-DATA
    E6=04:     LOCATION OF E6 DATA IN GRADE-DATA
    E7=05:     LOCATION OF E7 DATA IN GRADE-DATA
    E8=06:     LOCATION OF E8 DATA IN GRADE-DATA
    E9=07:     LOCATION OF E9 DATA IN GRADE-DATA
    W0=08:     LOCATION OF W0 DATA IN GRADE-DATA
    01=00:     LOCATION OF 01 DATA IN GRADE-DATA
    02=09:     LOCATION OF 02 DATA IN GRADE-DATA
    03=10:     LOCATION OF 03 DATA IN GRADE-DATA
    04=11:     LOCATION OF 04 DATA IN GRADE-DATA
    05=12:     LOCATION OF 05 DATA IN GRADE-DATA
    06=13:     LOCATION OF 06 DATA IN GRADE-DATA
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
NCHENL=3:      NUMBER OF MOS CHARACTERS TO AGGREGATE - ENLISTED ONLY
NCHWOF=4:      NUMBER OF MOS CHARACTERS TO AGGREGATE - WARRANT OFFICERS ONLY
NCHOFF=2:      NUMBER OF MOS CHARACTERS TO AGGREGATE - OFFICERS ONLY
NCCHAR=4:      NUMBER OF MOS CHARACTERS FOR MATCHING (MAX=9) - USE LARGEST
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
MOSPEO=41      INPUT EXCESS PEOPLE FILE FOR MOS SUBSTITITION
MOSJOB=51      INPUT UNFILLED JOB FILE FOR MOS SUBSTITUTION
GRDPEO=41      INPUT EXCESS PEOPLE FILE FOR GRADE SUBSTITUTION
GRDJOB=51      INPUT UNFILLED JOB FILE FOR GRADE SUBSTITUTION
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
NONAVA=.05     NONAVAILABILITY RATE FOR READINESS PROCESSOR
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
MOSSUB=YES     MOS SUB ALLOWED - FORMAT(7X,A5,A9,6X,A3,A9)
C
       FROM=11B            TO=100B

SCDSUB=NO :    SPECIALTY CODE SUBSTITUTION ALLOWED
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
ENLSUB=YES     ENLISTED GRADE SUB ALLOWED

       FROM=E3             TO=E4
       FROM=E4             TO=E5
       FROM=E5             TO=E6
       FROM=E6             TO=E7
       FROM=E7             TO=E8
       FROM=E8             TO=E9
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
OFFSUB=YES:    OFFICER GRADE SUB ALLOWED     FORMAT(7X,A5,A2,13X,A3,A2)

       FROM=02             TO=03
       FROM=03             TO=04
       FROM=04             TO=05
       FROM=05             TO=06
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
TYPSTR=AUT:    USE AUTHORIZED (AUT) OR REQUIRED (REQ) STRENGTH?
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
C1VALA=0.900:  BREAK BETWEEN C2 AND C1 RATINGS - USED FOR AGGREGATES
C2VALA=0.800:  BREAK BETWEEN C3 AND C2 RATINGS - USED FOR AGGREGATES
C3VALA=0.700:  BREAK BETWEEN C4 AND C3 RATINGS - USED FOR AGGREGATES
C1VALM=0.850:  BREAK BETWEEN C2 AND C1 RATINGS - USED FOR MOS & HIGH 5
C2VALM=0.750:  BREAK BETWEEN C3 AND C2 RATINGS - USED FOR MOS & HIGH 5
C3VALM=0.650:  BREAK BETWEEN C4 AND C3 RATINGS - USED FOR MOS & HIGH 5
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

Figure B-4. Parameter File Example

Columns	Description
1 8 ASOF =YYMMDD	As of date of the inventory and authorization data, this date is printed on the formatted reports.
1 8 NGRADE=nn	Two-digit integer representing the number of separately identified grades in the data. The largest valid integer is 16. This record must be followed by one blank or comment record which must be followed by at least nn type 2 records.
1 8 NCHENL=n	The number of characters of the MOS to use for enlisted data; maximum value is 9.
1 8 NCHOFF=n	The number of characters of the specialty code to use for officer data; maximum value is 9.
1 8 NCHWOF=n	The number of characters of the MOS to use for warrant officer data; maximum value is 9.
1 8 NCCHAR=n	Number of characters PRIM will use to match MOS of people against MOS of job. The maximum value is 9; the normal setting is the largest of NCHENL, NCHOFF, and NCHWOF. However, if desired, this may be smaller than any of the three other values. In the Assignment Processor, this number of characters will be used for all grades; preprocessing sets all characters beyond NCHENL, and NCHWOF to blank.
1 8 MOSSUB=YES or MOSSUB=NO	Whether MOS substitution will be allowed on this run. If the value is "YES", type 3 records must follow. If the value is "NO", all of the type 3 records following this will be ignored.
1 8 SCDSUB=YES or SCDSUB=NO	Whether specialty code substitution will be allowed. If the value is "YES", type 3 records must follow. If the value is "NO", all of the following type 3 records will be ignored.

Columns	Description
1 8 ENLSUB=YES or ENLSUB=NO	Whether enlisted grade substitution will be allowed. As for MOSSUB and SCDSUB, type 3 records must follow a value of "YES" and will be ignored following a "NO" value.
1 8 OFFSUB=YES or OFFSUB=NO	Whether officers grade substitution will be allowed. Type 3 records must follow a value of "YES" and will be ignored following a "NO" value.
1 8 TYPSTR=AUT or TYPSTR=REQ	A value of "AUT" means the authorized strength will be used for developing the fill levels; a value of "REQ" means the required (structure) strength will be used.
1 8 MOSPEO=nn	The file number for input of excess people for MOS substitution; the number may be 41 or 43. Normally, 41 is used when MOS substitution is run immediately after regular assignment, and 43 is used when grade substitution is run first.
1 8 MOSJOB=nn	The file number for input of unfilled jobs for MOS substitution; the number may be 51 or 53. When MOSPEO is 41, MOSJOB should be 51; when MOSPEO is 43, MOSJOB should be 53.
1 8 GRDPEO=nn	The file number for input of excess people for grade substitution; the number may be 41 or 42. Normally, 41 is used when grade substitution is run immediately after regular assignment, and 42 is used when MOS substitution is run prior to grade substitution.
1 8 GRDJOB=nn	The file number for input of unfilled jobs for grade substitution; the number may be 51 or 52.
1 8 NONAVA=.nn	The percentage of assigned personnel not available for duty converted to a decimal and subtracted from 1.00; could be considered as the percentage of assigned personnel who will be available for duty converted to a decimal rate.

Columns	Description
1 8 C1VALA=.XXX	The break between C-2 and C-1 rating for aggregate available strengths (page 3-11, AR 220-1, Unit Status Reporting, dated 1 June 81).
1 8 C2VALA=.XXX	The break between C-2 and C-3 rating for aggregate available strengths (page 3-11, AR 220-1, Unit Status Reporting, dated 1 June 81).
1 8 C3VALA=.XXX	The break between C-3 and C-4 rating for aggregate available strengths (page 3-11, AR 220-1, Unit Status Reporting, dated 1 June 81).
1 8 C1VALM=.XXX	The break between C-2 and C-1 ratings for available MOS or senior grade percentage (page 3-12, AR-220-1, Unit Status Reporting, dated 1 June 1981).
1 8 C2VALM=.XXX	The break between C-3 and C-2 ratings for available MOS or senior grade percentage (page 3-12, AR-220-1, Unit Status Reporting, dated 1 June 1981).
1 8 C3VALM=.XXX	The break between C-4 and C-3 ratings for available MOS or senior grade percentage (page 3-12, AR-220-1, Unit Status Reporting, dated 1 June 1981).

B.3 POLICY FILE

a. Purpose. The Policy file specifies the minimum and maximum fill levels and the associated assignment value for specific grades or aggregations of grades in specific ISSUEs, specific MOS or SC, or in a specific combination of ISSUE and MOS. All policies which are related to specific MOS or SC must be entered in this file; ISSUE policies that apply to all grades individually may be entered here or in the Value file; policies specified in terms of aggregations should be entered in the Policy file; policies that do not apply to all grades must be specified here (see Table B-2).

b. Conditions and Requirements

(1) All ISSUE codes must be defined in the ISSUE Definition file.

(2) The same grade cannot be used on more than one individual grade record or in more than one aggregated grade record for an ISSUE, an MOS or SC, or a specific combination.

Table B-2. Choice of Policy or Value

Related to	Pay grade	File
ISSUE	Less than all	Policy
ISSUE	All, aggregated	Policy
ISSUE	All, individually	Policy or Value
MOS	Any number, both aggregated and not	Policy
ISSUE and MOS	Any number, both aggregated and not	Policy

(3) If an ISSUE-specific policy is inconsistent with a policy stated for the including aggragated-ISSUE, the ISSUE-specific policy will be ignored; an error message will be given. The only way to correct this type of error is to delete the ISSUE-specific policy or to delete the aggregated ISSUE policy and replace it with one record for each ISSUE included in the aggregation, except the one that would otherwise cause the error.

(4) A warning message is given for every fill percentage greater than 200 percent (2.000 in decimal).

(5) Although the Value file is not compared with the Policy file, the user should consider both files when setting the values in each. In general, Policy file values should probably be less than the Value file minimum fill values; it may be desirable to set the Policy file values to smaller values than the Value file minimum values and larger than the Value file maximum values.

(6) When a policy record applies to fewer grades than are in the data, only those grades specified are written to the Job Assignment Value file; the data for other grades is saved for the application of other policies or the Value file.

(7) The minimum percentage must be less than or equal to the maximum percentage.

(8) The low grade must be less than or equal to the high grade.

(9) The value of each assignment between the minimum and the maximum will, by default, be the same as the value for each assignment up to the minimum.

c. Data Entries. All entries are required except "ISSUE=XXXX" for MOS policies and "MOS=XXXXXXXXX" for ISSUE policies. For correct column numbers, see the file description for file 91, Policy file. In the following data descriptions, the description on the right applies to the X value on the left. An example of a Policy file will be found in Figure B-5.

Field	Description
ISSUE=XXXX or MOSSC=bbbb	For ISSUE policies, this is a valid four character code from the ISSUE file; the ISSUE code is blank for MOS policies.
LO=XX	The lowest grade to which this policy applies.
HI=XX	The highest grade to which this policy applies.
AG=XXX	If the policy applies only to the aggregate of the low grade through the high grade, XXX should be YES. Another record(s) should be input which specifies the policy for the individual grades. On those records, XXX=NOb.
VALUE=XXX	The value or worth of meeting this policy. In general, the magnitude of the policy values will be larger than the maximum fill value in the Value file. It may be advantageous to set the minimum fill value in the Value file larger than this policy value. The job with the largest value will be filled first.
MIN=X.XXX	The smallest percentage (converted to a decimal) of assignments that should be made for this grade(s), ISSUE, and/or MOS.
MAX=X.XXX	The largest percentage of assignments that may be made for this grade(s), ISSUE, and/or MOS (converted to a decimal).
MOS=XXXXXXXXX	This field is blank for ISSUE policies; otherwise, it is required. Although the MOS may be up to nine characters in length, the number of characters should not be larger than the number of characters specified for the grade in the Parameter file.

```
                    P R I M   P O L I C Y   F I L E

ISSUE=C01-LO=02HI=02AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          ARMY SECR
ISSUE=C01-LO=03HI=03AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          ARMY SECR
ISSUE=C01-LO=04HI=06AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          ARMY SECR
ISSUE=C01-LO=W0HI=W0AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          ARMY SECR

ISSUE=C02-LO=02HI=02AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          ARMY STAF
ISSUE=C02-LO=03HI=03AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          ARMY STAF
ISSUE=C02-LO=04HI=06AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          ARMY STAF
ISSUE=C02-LO=W0HI=W0AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          ARMY STAF

ISSUE=C03-LO=E3HI=E9AG=YESVALUE=  5   MIN=1.00 MAX=1.10 MOS=          USAREC
ISSUE=C03-LO=02HI=02AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          USAREC
ISSUE=C03-LO=03HI=03AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          USAREC
ISSUE=C03-LO=04HI=06AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          USAREC
ISSUE=C03-LO=W0HI=W0AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          USAREC

ISSUE=C04-LO=W0HI=06AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          USMA

ISSUE=C05-LO=W0HI=06AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          DEFENSE A

ISSUE=C06-LO=W0HI=06AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          JOINT ACT

ISSUE=C07-LO=02HI=02AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          MEPCOM
ISSUE=C07-LO=03HI=03AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          MEPCOM
ISSUE=C07-LO=04HI=06AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          MEPCOM
ISSUE=C07-LO=W0HI=W0AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          MEPCOM

ISSUE=C08-LO=02HI=02AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          CMP SYS C
ISSUE=C08-LO=02HI=06AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 S C=53        CMP SYS/S
ISSUE=C08-LO=03HI=03AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          CMP SYS C
ISSUE=C08-LO=04HI=06AG=NO  VALUE=  5   MIN= .70 MAX=1.90 MOS=          CMP SYS C
ISSUE=C08-LO=W0HI=W0AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=741A      CMP SYS/7

ISSUE=C09-LO=W0HI=06AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 MOS=          BALLIS MI

ISSUE=C10-LO=02HI=06AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 S C=97        DARCOM/SC
ISSUE=C10-LO=02HI=06AG=NO  VALUE=  5   MIN=1.00 MAX=1.10 S C=51        DARCOM/SC

ISSUE=C15-LO=E3HI=E9AG=YESVALUE=  5   MIN= .97 MAX=1.10 MOS=          OLD GUARD

ISSUE=C16-LO=E3HI=E9AG=YESVALUE=  5   MIN=1.00 MAX=1.10 MOS=          SITE "R"

ISSUE=C17-LO=E3HI=E9AG=YESVALUE=  5   MIN= .97 MAX=1.10 MOS=          MDW MP CO
```

Figure B-5. Policy File Example

B.4 VALUE FILE

a. Purpose. The Value file specifies, by ISSUE, the minimum and maximum percentage of authorized or required spaces that the Assignment Processor should attempt to fill. In addition to the value for filling up to minimum fill level, a value for filling from the minimum up to the maximum is specified. An example of a Value file is in Figure B-6.

b. Conditions and Requirements

(1) There should be one record for every ISSUE, but no more than one per ISSUE.

(2) In general, the value of filling from zero to the minimum should be greater than the value of filling from the minimum to the maximum.

(3) The minimum fill value may be equal to the maximum fill value.

(4) The Value file is not applied to data for which a valid policy had been present. In other words, the Policy file must contain the largest desired percentage for all entries; no data element will have both a Policy file record and a Value file record applied.

c. Data Entries. All entries in this file are required. For the correct columns, see the file description for file 19, Value file. In the following data descriptions, the description on the right applies to the XX field on the left.

Entry	Description
ISSUE=XXXX	A valid, four-character ISSUE code from the ISSUE file.
MINIMUM=X.XXX	Minimum percentage fill converted to decimal. The records that are created from this data will show the minimum and maximum fill levels both equal to this rate times the desired fill for each grade level; the aggregate fill levels will be the sum of the grade fills.
MINVAL=XXX	This value will be used on the records described above for MINIMUM. This is normally larger than MAXVAL and may be larger than the policy values.

```
ISSUE=----  MINIMUM=  .60 MINVAL=  3   MAXIMUM=   .9 MAXVAL=  1
ISSUE=      MINIMUM=  .60 MINVAL=  3   MAXIMUM=   .9 MAXVAL=  1
ISSUE=C01-  MINIMUM=  .90 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C02-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C03-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C04-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C05-  MINIMUM=  .90 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C06-  MINIMUM=  .90 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C07-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C08-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C09-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C10-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C11-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C12-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C13-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C14-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C15-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C16-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C18-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C19-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C20-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C21-  MINIMUM=  .90 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C22-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C23-  MINIMUM=  .90 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C24-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C25-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=C27-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=E01-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=E02-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=E03-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=E04-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=E05-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=E99-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=E99B  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=E99C  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=F01-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F01A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F02-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F02A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F03-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F04-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F04A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F04B  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F05-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F05A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F05B  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F06-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F06A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F07-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F07A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F08-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F08A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F09-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F09A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F09B  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F99-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=F99A  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  2.0 MAXVAL=  2
ISSUE=J01-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=K01-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=K99-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=O01-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=T01-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T02-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T03-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T04-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T05-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T06-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T07-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T08-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T09-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T10-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T11-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T12-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T13-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T14-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=T99-  MINIMUM=  .70 MINVAL=  4   MAXIMUM=  1.5 MAXVAL=  2
ISSUE=W01-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
ISSUE=W99-  MINIMUM=  .98 MINVAL=  5   MAXIMUM=  1.0 MAXVAL=  2
```

Figure B-6. Value File Example

MAXIMUM=X.XXX — Maximum percentage fill converted to decimal. For each record created above, if MAXIMUM is greater than MINIMUM, another record is created with a minimum fill of zero for all grade levels and for the minimum aggregate fill. The desired maximum fill level is the desired (i.e., authorized or required) fill times MAXIMUM. Since the minimum fill should be assigned in response to the first record, the number entered as the maximum in this record is the minimum fill level subtracted from the desired maximum fill level.

MAXVAL=XXX — The value for each assignment above the minimum fill level, up to the maximum fill level. This value is normally smaller than the values used in the Policy file and the MINVAL in this file.

B.5 REPORT REQUEST FILE

a. Purpose. The Report Request file specifies the formatted readiness reports to be produced by the Report Processor. The different readiness report types are specified in Table B-3; the column numbers can be found in the description Job file 93.

Table B-3. Readiness Report Types

Report type	Report subtype	Report name
1		ISSUE Summary Report
2		Speciality Summary by Aggregate ISSUE
3	ALL	Speciality Summary by ISSUE - All specialties
	MOS code	Specialty Summary by ISSUE - Specified Speciality
4		Speciality Summary by Grade
5		Grade Summary by Aggregate ISSUE
6		Grade Summary by ISSUE
7		High Five Summary
8	ALL	ISSUE Listing - ALL ISSUEs
	ISSUE code	ISSUE Listing - Specific ISSUE
9		C-rating
10	ALL	Excess Personnel - ALL Types
	ORIGINAL	Excess Personnel from Regular Assignment
	MOS SUB	Excess Personnel from MOS Substitution
	GRADE SUB	Excess Personnel from Grade Substitution
11	ALL	Unfilled Jobs - All Types
	ORIGINAL	Unfilled Jobs from Regular Assignment
	MOS SUB	Unfilled Job from MOS Substitution
	GRADE SUB	Unfilled Jobs from Grade Substitution

b. Conditions and Requirements. All formatted readiness report types within the range of 01 to 11.

c. Data Entries. This file is not variable except for the YES/NO and WHICH fields. All report entries should remain in the file, change only the YES/NO field and MOS or ISSUE in the WHICH field.

Field	Description
REPNUM=XX	A valid two character readiness report number
YES/NO	Either "YES" or "NO." When this report type is to be produced, set YES/NO to "YES." When this report type is not to be produced, set YES/NO to "NO."
WHICH	Report type must be "MOS," "ALL," "ORIGINAL," "MOS SUB," " GRADE SUB," MOS code, or ISSUE code when report number is 03, 08, 10, or 11; must be blank when report number 01, 02, 04, 05, 06, 07, or 09.
REPNAM	Report name

APPENDIX C

ERRORS, WARNINGS, AND OTHER MESSAGES

ERROR 1 THE ISSUE FILE IS EMPTY.

Conditions: No valid ISSUE definitions were found in the ISSUE file.

Result: File must be corrected and the Set ISSUE program must be rerun.

ERROR 2 ROLMOS/PROCESS 1.1.2 SHOULD BE REPROGRAMED. THE STRENGTHS AT THE 3-DIGIT UIC LEVEL ARE LARGER THAN ALLOWED FOR BY THE FORMAT.

Conditions: The number of jobs is larger than can be written with the format I6.

Result: The computer system will set the number of jobs to asterisks (*) when the number is greater than 999,999.

ERROR 3 THE MINIMUM PERCENTAGE IN THE VALUE FILE MULTIPLIED BY THE NUMBER OF JOBS CREATED A RECORD OF ALL ZEROES.

Condition: When the number of jobs to be filled is very small, the result of the multiplication may round down to zero. For example, if there is only one job to be filled, a percentage of less than 50 percent will round down to zero.

Result: The job record is written to the Unfilled Job file instead of to the Job Assignment Value file.

ERROR 4 GRADE IN JOB DATA IS NOT IN PARAMETER FILE.

Condition: The Parameter file did not specify the grade code found in the MOS data as a valid grade.

Result: The data with the invalid grade is not written to the output file.

ERROR 5 ISSUE DATA NOT COMPLETE. ISSUE NOT FOUND FOR UIC.

Condition: If the message is from process 1.2.3, the UIC record specified does not belong to a valid ISSUE, i.e., the ISSUE definitions were not complete. The specified unit was not included in any ISSUE definitions. If the message is from process 1.2.5, there was an MOS record which did not get the ISSUE set; the UIC record may have been missing from the input file (file 22).

Result: The unit for which the ISSUE was not defined will have the ISSUE set to "----", the "invalid" designation.

ERROR 6 PROGRAMING MUST BE ADDED TO PROCESS 1.2 TO SET ISSUES FOR ID1 and ID2.

Condition: ISSUE definitions of ID1 and ID2 were not one of the valid combinations from Table B-1, ISSUE Identification Methods.

Result: No units will have the ISSUE set according to this definition.

ERROR 7 NO UIC-DATA RECORD FOUND FOR ISSUE.

Condition: An ISSUE definition did not match any data in the UIC-data file.

Result: The definition is otherwise ignored.

ERROR 9 ISSUE ON JOB FILE NOT ON CURRENT ISSUE FILE.

Condition: During the writing of the formatted readiness reports, the ISSUE codes found on the readiness files (which come from the Job file) are matched with the ISSUE Definition file to get the ISSUE name. If an ISSUE code is not found, this message is written, and the subroutine ISSUNA provides an error indication to the report writing program.

Result: The report processor stops for the user to provide the correct ISSUE Definition file.

ERROR 10 ISSUE ON POLICY FILE NOT DEFINED IN ISSUE FILE.

Condition: The ISSUE and Policy files are incompatible. All ISSUEs on the Policy file must be defined on the ISSUE file.

Result: The Policy record is ignored.

ERROR 11 LOW GRADE IN POLICY FILE IS BLANK.

Condition: The low grade in the Policy file is blank.

Result: The Policy record is ignored.

ERROR 12 HIGH GRADE IN POLICY FILE IS BLANK.

Condition: The high grade in the Policy file is blank.

Result: The Policy record is ignored.

ERROR 13 LOW GRADE IN POLICY FILE IS INVALID.

Condition: The low grade in the Policy file must be E1 through E9, WO, or O1 through O6 and must be specified in the Parameter file.

Result: The Policy record is ignored.

ERROR 14 HIGH GRADE IN POLICY FILE IS INVALID.

Condition: The high grade in the Policy file must be E1 through E9, WO, or O1 through O6 and must be specified in the Parameter file.

Result: The Policy record is ignored.

ERROR 15 HIGH GRADE IN POLICY FILE IS LESS THAN LOW GRADE.

Condition: The high grade in the Policy file must be the same as or larger than the low grade in the Policy file.

Result: The Policy record is ignored.

ERROR 16 MINIMUM IN POLICY FILE IS GREATER THAN 2.0. MINIMUM USUALLY 1.0.

Condition: The minimum percentage is greater than 200 percent; the usual minimum percentage is less than 100 percent.

Result: The Policy record is applied using the rate that was input.

ERROR 17 MAXIMUM IN POLICY FILE IS GREATER THAN 2.0.

Condition: The maximum percentage in the Policy file is greater than 200 percent; the usual maximum percentage is near 100 percent.

Result: The Policy record is applied using the rate that was input.

ERROR 18 MINIMUM IN POLICY FILE GREATER THAN MAXIMUM ON POLICY FILE.

Condition: The minimum in the Policy file is greater than the maximum.

Result: The Policy record is ignored.

ERROR 19 VALUE IN POLICY FILE LESS THAN ZERO.

Condition: A negative value was found in the Policy file.

Result: The negative value is applied to the MOS data.

ERROR 20 CHECK VALIDITY OF MINIMUM AND MAXIMUM PERCENTAGES ON POLICY FILE FOR ISSUE.

Condition: The minimum percentage and/or the maximum percentage on the Policy file is invalid for the specified ISSUE.

Result: The Policy record is ignored.

ERROR 21 AGGREGATE VALUE SHOULD NOT BE BLANK, VALID VALUES ARE YE (FOR YES) OR NO.

Condition: AG= on the Policy file must be followed by NO for a non-aggregated policy or by YES for an aggregated policy.

Result: The Policy record is ignored.

ERROR 22 INVALID AGGREGATE. THERE IS AN INVALID OVERLAP OF GRADES USING MULTIPLE AGGREGATES FOR ONE ISSUE.

Condition: The same grade may not be included in more than one specification for the same ISSUE, MOS, or combined ISSUE/MOS.

Result: All but the first specification will be ignored. Aggregate-ISSUE level specifications are considered first. A later specification for the same grade(s) for a specific ISSUE will be ignored.

ERROR 23 UNABLE TO SET MINIMUM AND MAXIMUM FILL LEVELS FOR ISSUE.

Condition: Either the minimum percentage or the maximum percentage in the Value file is invalid.

Result: Record is not written to the JAV file. Correct the Value file and rerun.

ERROR 24 THE JOB-ASSIGNMENT-VALUE FILE IS EMPTY.

Condition: No valid entries found in Value file, File 19.

Result: No additional records were written to the Job Assignment Value file (40).

ERROR 25 INCORRECT FORMAT FOUND IN VALUE FILE FOR ISSUE.

Condition: Data in Value file is not in the specified format.

Result: No additional records for the specified ISSUE were written to the JAV file.

ERROR 26 UNABLE TO SET ASSIGNMENT VALUES FOR ISSUE.

Condition: When written from Apply Policy, the number of MOS per ISSUE was greater than 676; when written from Set Base Values, there was not a valid Value record for this ISSUE.

Result: Record is not written to the JAV file. Check output from Set ISSUE, 1.2. If more than 676 MOS are in one ISSUE, delete or correct errors in the MOS file. Make sure ISSUE codes match (all four characters) in the ISSUE and Value file.

ERROR 27 POLICY FILE IS EMPTY.

Condition: No valid entries were found in the Policy file.

Result: All JAV records will be based on the data from the Value file.

ERROR 30 INVALID GRADE ON PARAMETER FILE.

Condition: The grade location in the Parameter file was not a 2-digit integer with a value of 16 or less.

Result: The location is not included as a valid location.

ERROR 31 INVALID LOW GRADE VALUE ON PARAMETER FILE. VALUE SHOULD BE INTEGER.

Condition: Low grade must be an integer value greater than zero and less than 16.

Result: The program cannot correctly set the subscript values for storing the data by grades. The error must be corrected.

ERROR 32 INVALID HIGH GRADE ON PARAMETER FILE. VALUE SHOULD BE INTEGER AND EQUAL TO NGRADE.

Condition: High grade must be an integer value greater than zero and less than or equal to 16.

Result: The program cannot correctly set the subscript values for storing the data by grades. The error must be corrected.

ERROR 34 GRADE IN POLICY FILE IS NOT IN PARAMETER FILE

Condition: One of the grades on the specified policy record does not match the valid grade codes entered in the Parameter file. A policy cannot be applied to grades that do not exist in the input data, and the data will contain only grades specified in the Parameter file.

ERROR 35 INVALID GRADE OVERLAP. ONE OF THE INCLUDED GRADES HAS BEEN USED ON A PREVIOUS POLICY FOR AGGREGATED GRADES.

Condition: One or more grades has been used in more than one policy that is of the type that is aggregated across grades. No more than one policy can be applied.

Result: The entire record containing the policy that is specified in the error message is ignored.

ERROR 36 INVALID GRADE OVERLAP. ONE OF THE INCLUDED GRADES HAS BEEN USED ON A PREVIOUS POLICY FOR NONAGGREGATED GRADES.

Condition: One or more grades has been used in more than one policy that is of the type that is not aggregated across grades. No more than one policy can be applied.

Result: The entire record containing the policy that is specified in the error message is ignored.

ERROR 37 AS OF DATE IS MISSING FROM THE PARAMETER FILE.

Condition: As stated, there is no as of date in the Parameter file or the variable name is not spelled correctly in the Parameter file.

Result: The report programs will show a blank as of date.

ERROR 39 NGRADE IS MISSING FROM PARAMETER FILE.

Condition: NGRADE is not specified correctly. Either it was not spelled correctly, not placed in the correct columns, or the integer did not convert correctly to an integer of 16 or less.

Result: The program will not correctly process any further data.

ERROR 40 NCCHAR IS MISSING FROM PARAMETER FILE.

Condition: Either NCCHAR is not in the Parameter file, it is misspelled in the Parameter file, or it is not in the right columns in the Parameter file.

Result: The number of characters cannot be compared in the Assignment program. All programs using NCCHAR must be rerun.

ERROR 41 TYPSTR IS MISSING FROM PARAMETER FILE - USER MUST SPECIFY WHETHER STRENGTH SHOULD BE AUT OR REQ.

Condition: TYPSTR is either not in the Parameter file, is misspelled in the Parameter file, is not in the right columns in the Parameter file, or the AUT and/or REQ is missing.

Result: The Policy programs cannot continue. Correct the Parameter file and rerun.

ERROR 42 NCCHWO IS MISSING FROM PARAMETER FILE.

Condition: Either NCCHWO is missing, misspelled, or in the wrong columns in the Parameter file.

Result: ROLMOS program cannot work correctly. Correct the Parameter file and rerun the ROLMOS program.

ERROR 43 THERE WERE NO ISSUES DEFINED BY UIC ON THE ISSUE DEFINITION FILE (warning message).

Condition: There was an ISSUE definition in File 14 that was not used by any of the data in the files.

Result: The ISSUE definition was ignored. If it should have been used, look at the ISSUE in File 14, find the error, correct, and rerun the Set ISSUE program.

ERROR 44 INVALID MOS SPECIFICATION ON POLICY FILE. NUMBER OF CHARACTERS SPECIFIED IS LARGER THAN NUMBER OF CHARACTERS SPECIFIED ON PARAMETER FILE (warning message).

Condition: The Policy stated in the Policy file contained a larger number of characters in the MOS than had been specified in the Parameter file.

Result: This Policy will be ignored unless the Policy file is corrected and the Apply Policy programs rerun.

ERROR 45 THE SUM OF THE MAXIMUM FILL OF GRADES IS LESS THAN THE MINIMUM AGGREGATE FILL.

Condition: At least two policy records were taking effect at the same time. One would have been for the aggregate of several grades, and the other would have been for the grades within that aggregate having a different minimum percentage fill. When the sum of the maximum fill of the individual grades is less than the minimum required fill for the aggregate of those grades, the Assignment programs will give an infeasible arc. This error must be corrected on the Policy file and the Policy programs rerun.

Result: The record is ignored.

ERROR 46 INVALID GRADE OVERLAP ON POLICY FILE. THERE IS MORE THAN ONE SPECIFICATION FOR GRADE.

Condition: More than one policy included this grade.

Result: The second policy is ignored.

ERROR 61 THE MAXIMUM IS LESS THAN THE MINIMUM ON THE VALUE FILE.

Condition: The maximum percentage fill was less than the minimum percentage fill on the Value file (File 19). This will be impossible to fill to more than the minimum stated. One record for the minimum percentage fill will be written to the Job Assignment Value file.

Result: Only the minimum is used.

ERROR 62 MAXIMUM VALUE ON VALUE FILE IS LARGER THAN THE MINIMUM (warning message).

Condition: The value for the maximum percentage would normally be smaller than the value for the minimum percentage. When it is not, this error is given as a warning.

Result: The records have been written to the Job Assignment Value file. If this was not desired, the Value file should be corrected and the Set Base Value program rerun.

ERROR 70 THE INPUT MOS FILE IS NOT SORTED CORRECTLY. ISSUES ARE NOT IN ORDER.

Condition: Each ISSUE code is checked against the previous ISSUE code. The last code must always be greater than or equal to the previous code. If not, the MOS-data file aggregation will not be performed correctly.

Result: The program will halt with the error message. The user must sort the MOS-data file on MOS within ISSUE code and rerun process 1-3, Aggregate MOS-data.

ERROR 71 THE INPUT MOS FILE IS NOT SORTED CORRECTLY. MOS NOT IN ORDER.

Condition: Each MOS is checked against the previous MOS. The last MOS must always be greater than or equal to the previous MOS. If not, the MOS-data file aggregation will not be performed correctly.

Result: The program will halt with the error message. The user must sort the MOS-data file on MOS within ISSUE code and rerun process 1-3, Aggregate MOS-data.

ERROR 96 MORE THAN 300 ISSUES ARE DEFINED ON THE ISSUE FILE.

Condition: No more than 300 ISSUE codes may be defined. The Edit Policy program found more than 300 unique ISSUE codes.

Result: Policies for all ISSUEs numbered 301 and up will be ignored.

ERROR 97 UNABLE TO WRITE UNIQUE DEMAND NODE NAME IN POLICY PROCESSOR FOR THE PRESENT DEMAND NODE IDENTIFIER.

Condition: More than 676 different MOS records were read for one ISSUE and all records beyond 676 will have the same demand node name.

Result: Results are unpredictable.

MESSAGE 98 END OF DATA FOR PROCESS.

Condition: During running of the Apply Policy modules, different sets of data are used at different points. Whenever the end of the particular

set of data is reached, MESSAGE 98 is output to signal the user that the end of file was needed.

Result: No effect.

MESSAGE 99 READ OR WRITE ERROR ON UNIT.

Condition: A read or write error on the unit specified has occurred. The reason is probably that the file has disappeared, is not available for use, or the file name is misspelled on the assign and/or use statement in the runstream.

Result: The programs cannot continue. The error must be corrected and the programs rerun.

ERROR 103 MULTIPLE DEFINITION OF ISSUE FOR THIS UNIT. RESETTING ISSUE (warning message).

Condition: The unit having the ISSUE set at the moment has already been included in an ISSUE definition, and the ISSUE is being reset from the previous ISSUE to this ISSUE. If that is not desired, the ISSUE file must be corrected, and the Set ISSUE program rerun.

Result: ISSUE has been changed to reflect the new ISSUE definition. This message is a warning only.

ERROR 104 THERE IS NO SUMMARY LINE TITLE FOR ISSUES (warning message).

Condition: The Report processor was unable to find the "00" level record in the ISSUE file.

Result: This report cannot be produced unless the ISSUE file is corrected.

ERROR 113 MINIMUM ON POLICY FILE IS GREATER THAN 1.0 (warning message).

Condition: Merely a warning that the minimum percentage from the Policy file is greater than 100 percent. Normally, the minimum would be less than 1.0, but it is allowed to be more than 100 percent.

Result: The minimum is used as stated.

ERROR 125 JOB-DATA RECORD CONTAINS NO JOBS FOR ISSUE (warning message).

Condition: If this message is output from ROLMOS, it means that there were no authorized or required jobs for this ISSUE and MOS combination. In other words, both numbers were zero. If output from the Apply Policy program, it means that there were no jobs of the specific type of data requested in the Parameter file (authorized or required). There may have been required jobs, but the request was for authorized, which was zero. It also can be output after the multiplication of the Policy or Base Value minimum or maximum times the authorized or required jobs. Rounded to the nearest integer, it might turn out to be zero. In other words, fairly small numbers of people

required for a job multiplied times a very small percentage may round to a zero.

Result: The data is dropped from the data base. If it should not be dropped, then the applicable file should be corrected and the programs rerun.

ERROR 126 JOB-DATA RECORD CONTAINS NO JOBS FOR UIC (warning message).

Condition: Similar to ERROR 125, the Job-data record contains a zero in the number of people authorized and required. The program that outputs this message is ROLMOS.

Result: The data is dropped from the data base by the program ROLMOS.

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