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STATISTICAL RETRIEVAL SYSTEM AND RATE GENERATOR: COMMAND/MANAGE--ETC(U)
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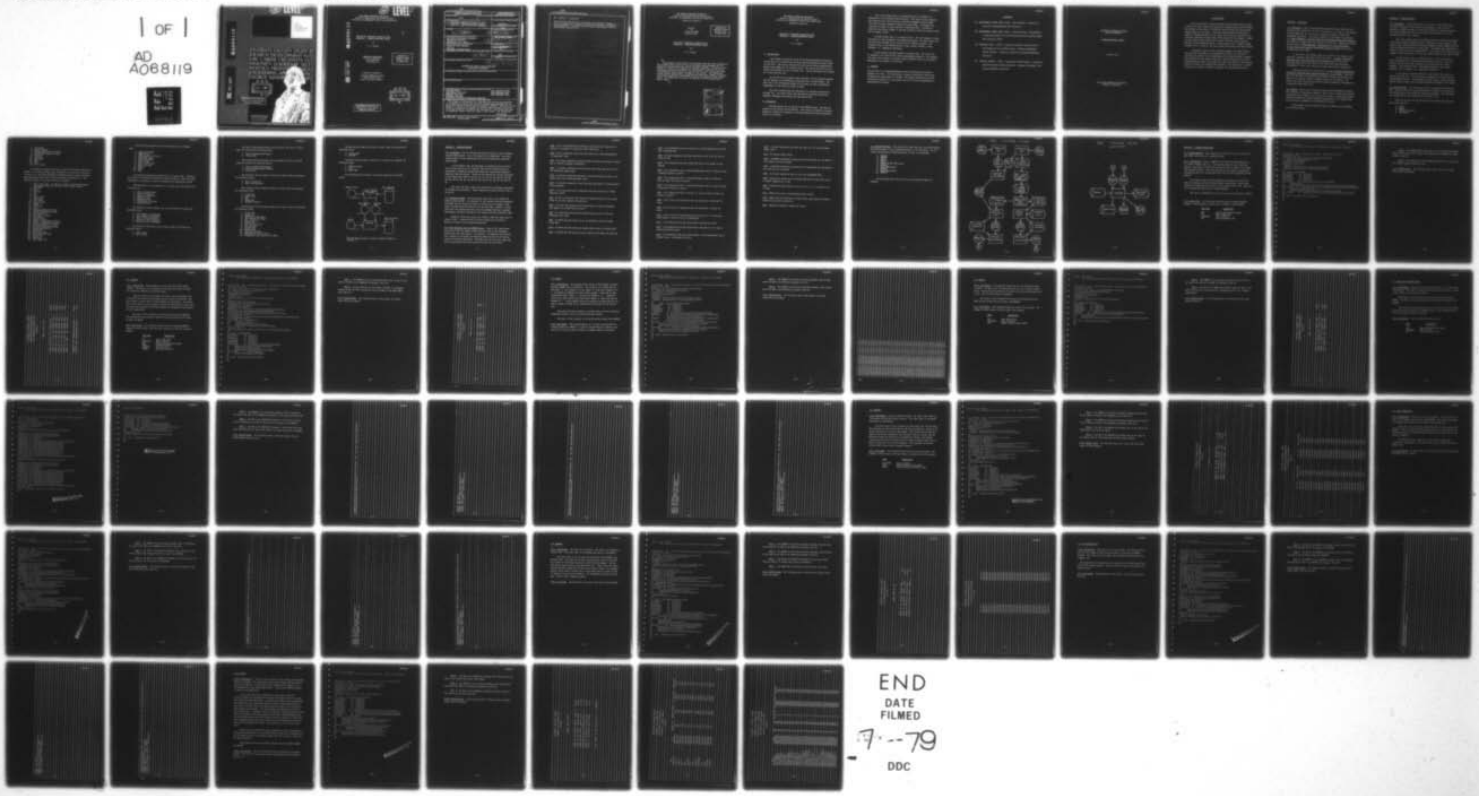

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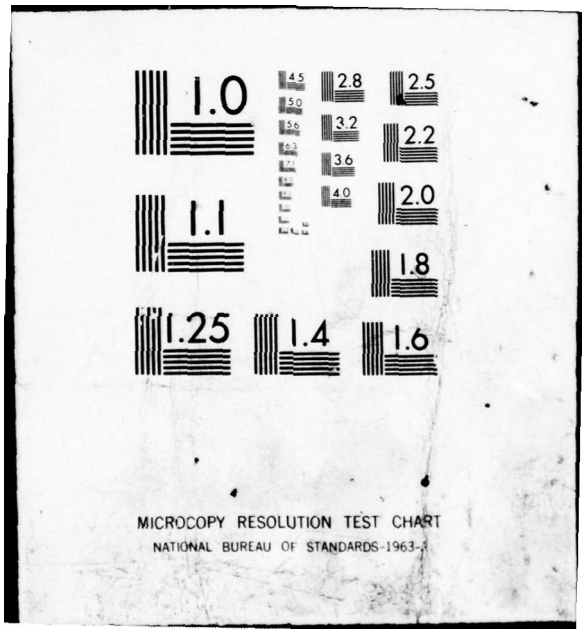
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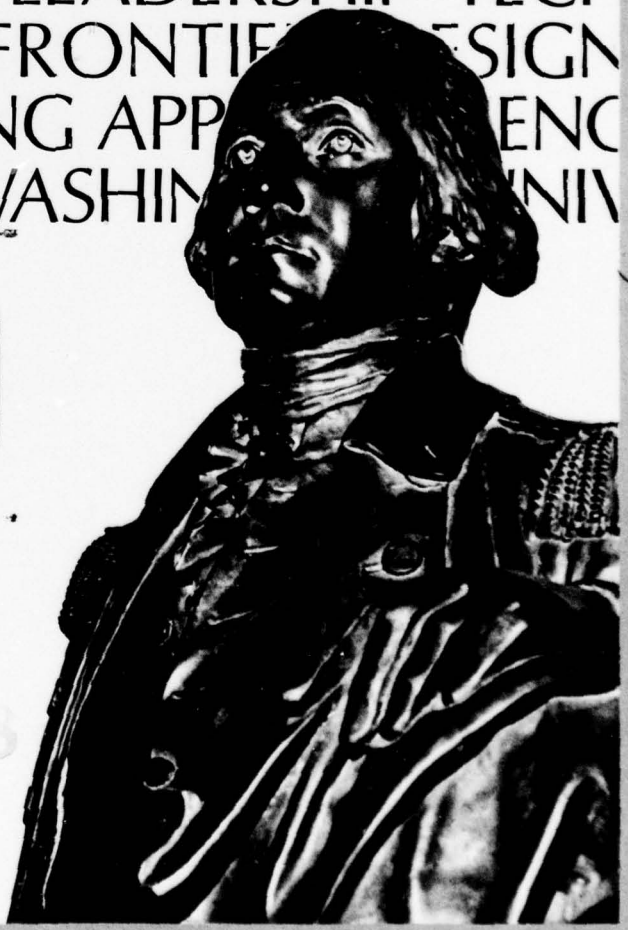

INSTITUTE FOR MANAGEMENT SCIENCE AND ENGINEERING
SCHOOL OF ENGINEERING AND APPLIED SCIENCE

(12) LEVEL II

THE GEORGE WASHINGTON UNIVERSITY
School of Engineering and Applied Science
Institute for Management Science and Engineering

STATISTICAL RETRIEVAL SYSTEM AND RATE GENERATOR: COMMAND/MANAGEMENT MANUAL

by

T. C. Teeples

TECHNICAL MEMORANDUM
Serial TM-60418
3 October 1977

REISSUED AS
TECHNICAL PAPER
SERIAL T-395
31 MARCH 1979

Program in Logistics
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USMC MANPOWER RATES
USMC PERSONNEL RATES

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20. Abstract - (continued)

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1. Introduction

The Program in Logistics staff of The George Washington University started work on the Statistical Retrieval System (SRS)/Rate Generator (RG) in July 1973. The project resulted from discussions between Headquarters, Marine Corps (HQMC) and the research staff. The initial direction of the effort was provided by a work statement [1]. Further direction was provided by a study directive [2].

At the end of the analysis phase, Reference [3] was prepared describing the analysis and recommending continuing with a system design. The paper led to the preliminary design of the system and some experimental programming to test some key design concepts.

The final system design was described in a systems specification document [4]. All effort since that time has been directed toward programming, debugging and creating the SRS history file.

2. Discussion

The SRS history file is the key to the SRS/RG system. The file is composed of one record for each Marine. Each record is variable in length, growing to contain all instances of selected significant events during the career of the Marine.

One of the primary goals in designing SRS was to minimize any disruptions of the already existing systems. This goal has been realized. SRS requires input from the Recruit Accession Management System (RAMS) files and from the Transaction Retrieval System (TRS). No changes were required for either of these systems in supporting SRS. It should be noted that any future changes to the data records of these two systems could have an impact on SRS.

The SRS history file is a sequential file. The file depends on batch processing for the preliminary and updating processes. The SRS history file has never been intended as an on-line file for inquiry purposes. The intended output of the SRS/RG system is sums, counts, profiles, rates, averages, i.e., aggregate information.

In its present form SRS contains 13 record areas. The record can be expanded to 15 areas without major reprogramming required. The programs have been written using a top-down, modular approach which will facilitate maintenance and changes to the system.

3. Summary

The enclosure is a Command/Management manual describing the system for managers and users. This manual plus a program catalog will satisfy the documentation requirements for SRS/RG. The program catalog will provide detailed descriptions of the programs and will be used by programmers in maintaining the systems.

REFERENCES

[1] HEADQUARTERS, MARINE CORPS (1973). Work Statement: Statistical Retrieval System/Automated Rate Generator.

[2] HEADQUARTERS, MARINE CORPS (1973). Study Directive; Determination of Data Requirements for the Statistical Retrieval System (SRS)/ Rate Generator (FY74).

[3] TOMLINSON, ROSS E. (1974). Creating a personnel data base with a time dimension for the Marine Corps. Technical Memorandum Serial TM-65211. Program in Logistics, The George Washington University.

[4] TEEPLES, THOMAS C. (1976). Draft System Specification: Statistical Retrieval System and Rate Generator. Program in Logistics, The George Washington University.

TM-60418

STATISTICAL RETRIEVAL SYSTEM AND RATE GENERATOR

COMMAND/MANAGEMENT MANUAL

3 October 1977

The George Washington University
Program in Logistics

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The author wishes to thank Lieutenant Colonel Osgood and the staff of MPI-20 for their cooperation during the implementation period preceding the writing of this manual. The MPI-20 staff did much more than provide working space for the author. They also tolerated the myriad piles of computer listings generated by the system and provided a cooperative and supportive atmosphere through some trying times with the hardware. Thanks are also owed to Major Marsh and the staff of MPI-30, with a special mention for Staff Sargeant Osborn. Two people who are no longer at HQMC provided a lot of input in the early stages; Major Hester and Major Bloxom.

A particular debt is owed to Captain Hockaday who worked closely with the author throughout the implementation phase. He assisted in educating the author on the idiosyncrasies of the HQMC computer; arranged for meetings with key systems staff when complex problems arose; and by being personally present he arranged for some extra access to the computer system on several late evenings and Saturdays. His dedication to the SRS project was a positive influence throughout the implementation effort.

SECTION 1. OBJECTIVE

1.1 Background. Work on the Statistical Retrieval System (SRS) and Rate Generator (RG) started in July 1973. The project is a result of discussions between HQMC staff and the staff of Program in Logistics, The George Washington University. The initial direction of the effort was provided by a WORK STATEMENT: Statistical Retrieval System/Automated Rate Generator published by the HQMC staff and received 24 April 1973. Additional guidance was provided by STUDY DIRECTIVE: Determination of Data Requirements for the Statistical Retrieval System/Rate Generator (FY74), also written by HQMC staff (July 1973).

At the end of the analysis phase of the project the research staff produced a Technical Memorandum (Serial TM-65211): Creating a Personnel Data Base with a Time Dimension for the Marine Corps (30 June 1974). This memorandum led to the design of the system and some preliminary programming to ensure that certain key design concepts were supportable.

The system design was described in a document SYSTEMS SPECIFICATION: Statistical Retrieval System and Rate Generator (9 June 1976). This document also described the interfaces with present systems and presented the logic of the proposed computer programs required by the system. All effort since that time has been directed toward programming, debugging and creating the SRS history file.

1.2 Purpose. Parts 1 and 2 of this document provide management personnel with information regarding the SRS/RG. Parts 3 and 4 provide more detailed information and are aimed at the users of the system. A separate document (Program Catalog) will provide detailed descriptions of the programs and will be used by programmers in maintaining the system.

This document and the Program Catalog are submitted in fulfillment of the project effort.

SECTION 2. SYSTEM OVERVIEW

2.1 Philosophy. The SRS history file is the key to the SRS/RG system. The file is composed of one record for each Marine. Each record is variable in length, growing to contain all instances of selected significant events during the career of the Marine (see Section 2.2 for the detailed contents of the record).

One of the primary goals in designing SRS was to minimize any disruptions of the already existing systems. This goal has been realized. SRS requires input from the Recruit Accession Management System (RAMS) files and from the Transaction Retrieval System (TRS). No changes were required for either of these systems in supporting SRS. It should be noted that any future changes to the data records of these two systems could have an impact on SRS.

The SRS history file is a sequential file. The file depends on batch processing for the preliminary and updating processes. The SRS history file has never been intended as an on-line file for inquiry purposes. The intended output of the SRS/RG system is sums, counts, profiles, rates, averages, i.e., aggregate information.

In its present form SRS contains 13 record areas (the areas are listed in Section 2.2). The record can be expanded to 15 areas without reprogramming required. The programs have been written using a top-down, modular approach which will facilitate maintenance/changes to the system.

2.2 Macro-overview. The SRS history file is a longitudinal historical file. Each new event for a particular Marine is added to the record for that Marine without destroying the previous information. The following is a description of the contents of the records in SRS.

There are 15 areas in the SRS record (13 reserved and 2 spares). The record areas are:

1. Fixed
2. Scores
3. Military Education
4. Enlistment

5. Extensions
6. Grades (Ranks)
7. Unauthorized Absences (Short)
8. Unauthorized Absences (Long)
9. Desertion
10. Transfers
11. Turbulence
12. MOS
13. Bonus
14. & 15. Spares

The Fixed area appears only once in each record and is constant in length. It contains certain static information, such as sex, race, date of birth, etc., and some changeable information such as number of dependents currently, billet MOS, civilian education currently, etc. The detailed contents of the Fixed area are as follows:

1. Area count table. (A table of counters indicating how many replications there are of each of the variable areas).
2. MID (SSN)
3. Name
4. Initials
5. Race
6. Sex
7. Ethnic Group
8. Home State
9. Home County
10. Date of Birth
11. AFADBD
12. Actual EAS
13. PEBD
14. Graduation/Separation Date
15. Graduation/Separation Flag
16. MCC Enlisted At
17. Duty Limit at Entry
18. Citizenship
19. Marital Status
20. Number of Dependents at Entry
21. Number of Dependents Currently
22. Civilian Education at Entry
23. Civilian Education Currently
24. Program Enlisted For
25. Billet MOS
26. HMF Source Flag
27. Active/Inactive Flag
28. Cohort Date
29. RAMS Flag
30. Last Change Date

The Scores area appears only once and contains the following areas:

1. AFEES Form Number
2. AFEES Scores
3. AFEES Mental Group Score
4. AFEES Test Flag
5. Depot Form Number
6. Depot Scores
7. Depot GT GCT Score
8. Depot Test Date
9. Typing
10. EDPT
11. ALAT

The Military Education may appear zero to twenty times. Presently the TRS does not provide information on military schools. When the school information is available it will be included in the SRS history record.

The Enlistment area may appear one to twenty times and contains the following data:

1. Source of Entry Codes
2. Date of Enlistment
3. Length of Enlistment
4. Component Code
5. Separation Code
6. Reenlistment Indicator
7. Separation Date

The Extension area may appear zero to nine times and contains the following fields:

1. Total Months of Extensions
2. Total Number of Extensions
3. Date of Latest Extension
4. Months of Latest Extension
5. Enlistment Cross Reference

The Grades area may appear one to twenty times and contains the following fields:

1. Grade (Rank)
2. Date of Rank

The Short Unauthorized Absence area may appear from zero to thirty times and contains the following fields:

1. Date of Unauthorized Absence
2. Status Flag

The Long Unauthorized Absence area may appear from zero to thirty times and contains the following fields:

1. Date to Unauthorized Absence
2. Date from Unauthorized Absence
3. Status Flag

The Desertion area may appear from zero to twenty times and contains the following fields:

1. Date to Desertion
2. Date from Desertion

The Transfers area may appear from one to twenty times and contains the following fields:

1. Former MCC
2. Present MCC
3. RUC
4. Begin Date
5. Strength Category

The Turbulence area may appear from zero to twenty times and contains the following fields:

1. Present MCC
2. Former MCC
3. Intended Transfer Date
4. Date Current Tour Began
5. Date of Action
6. Reason Code
7. Tour Control Factor
8. PCS Cost Code
9. Trainee Flag
10. Reason Flag
11. Last Date Detached
12. Geographical Location Code
13. Geographical Date Current Tour Began

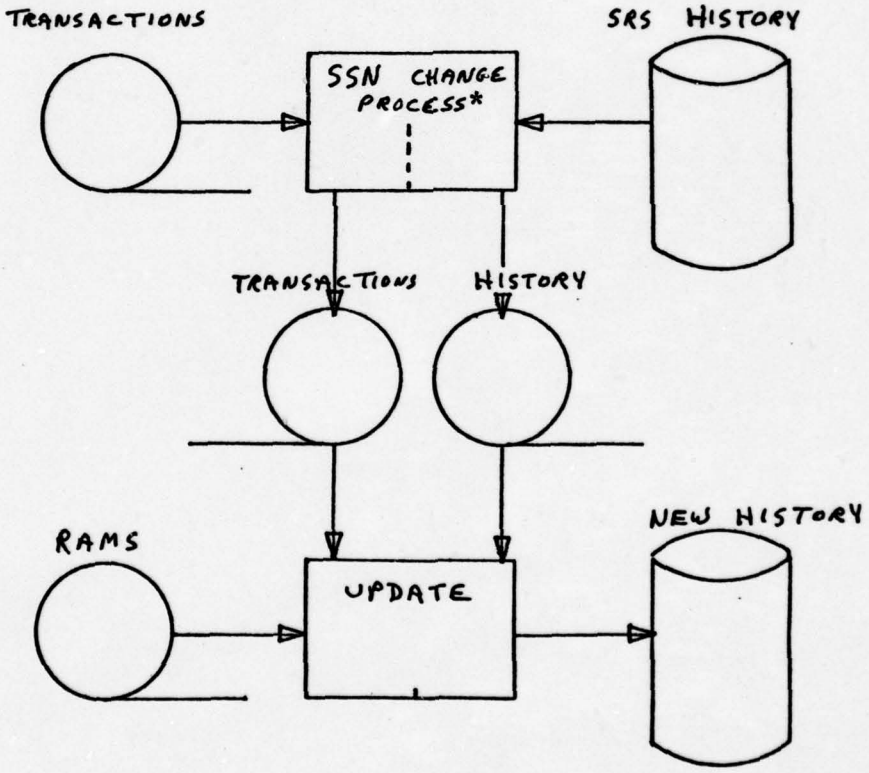
The MOS area may appear from zero to twenty times and contains the following fields:

1. Primary MOS
2. MOS Date

The Bonus area may appear from zero to ten times and contains the following fields:

1. SRB Bonus Type
2. Zone
3. Bonus Date

The following chart provides a macro-flow depiction of the SRS system:



*The SSN change process is shown in greater detail in Section 3.

SECTION 3. PROGRAM OVERVIEW

3.1 Interfaces. For the on-going SRS system, there are only two inputs from the HQMC systems. One of the inputs is the RAMS file. The other required input is the transaction data from the Transaction Retrieval System (TRS).

At the present time, the TRS input is provided from two sources. One of these sources is the "regular" TRS records containing data on enlistments, extensions, promotions/reductions, unauthorized absences, desertion, MOS and bonuses. These are the transaction records containing a Type Change Code (TCC) of AO, AN, A4, A5, A6, A7, A8, DB, DC, DE, DH, DY, D2, D3, D5, EF, EP, ER, EX, R1, R2, R3, R4, R5, UA, U1, U5, U6, U7, U9.

The other TRS source inputs the data records containing information on Transfers and Turbulence. These transaction records contain a TCC of JD and JP.

3.2 Potential Changes. Certain changes could occur in the RAMS file without affecting SRS. For instance, if the recruiter MID was eliminated from RAMS (but the space maintained for future use) no changes to SRS would be needed since SRS does not use recruiter MID. However, if something like the language aptitude score were changed (deleted, expanded, made numeric instead of character) then changes would be required in SRS.

Similarly, there are certain key fields in TRS that could have an effect on SRS. A detailed list of the key fields will be given in Section 4 as part of the program descriptions.

3.3 Error Messages from the UPDATE Process. Some of the transactions that are fed into the update process may fail some of the validation checks built into the program. For instance, a transaction may indicate that a Marine is returning from desertion when the history file has no record of the Marine deserting. Following is a list of error codes that will be associated with those records that fail the edit tests:

A-01 - An A7 (from desertion) transaction record has been found with no record of a previous 'to desertion' (R4) transaction.

A-02 - An A7 transaction record has been found with a date preceding the "to desertion" date.

A-03 - An A-type transaction record has been found where the history record has no initial enlistment information.

A-04 - An A-type transaction record has been found that does not fit into the enlistment update logic.

A-05 - An A5-type transaction record has been found where the date is not greater than the present enlistment date.

A-06 - An A5-type transaction record has been found where no valid previous R-entry appears.

A-07 - An A7 (from desertion) transaction has been found with no "open" desertion record.

R-01 - An R4 (to desertion) TRS record has appeared without an A7 (return from) for the last instance of desertion.

R-02 - An R-type TRS record has been found where no initial enlistment data appears in the SRS history record.

R-03 - An R-type TRS record has been found that does not fit into the enlistment area logic.

R-04 - An R2/R5-type TRS record can not be matched up with its proper A-type data.

R-05 - An R1/R3 type TRS record has invalid data in date of action field.

R-06 - An R2/R5 type TRS record has been found that pre-dates the SRS file.

U-01 - A U9 transaction has been found with a U1-U5 predecessor and no UA with a matching date.

U-02 - A U-type transaction has been found that is not a U1, U5, U6, U7, or U9 (or UA).

U-03 - A U1 transaction has been found when there is an "open" U1 area already.

U-04 - A U1 transaction with a correction/deletion code of 2 does not have a previous record to correct.

U-05 - A U1 transaction with a correction/deletion code of 2 does not have an "open" U1 record to correct.

U-06 - A U1 transaction with a correction/deletion code of 1 does not have a previous U1 record to correct.

U-07 - A U1 transaction with a C/D code of 1 does not have an "open" U1 record to correct.

U-08 - A U5 or U6 or U7 transaction has been found with no previous U1 entry.

U-09 - A U5 or U6 or U7 transaction has been found with no "open" U1 entry.

U-10 - A U5 or U6 or U7 transaction with a C/D code of 1 or 2 has been found without a U1-U5 or U6 or U7 predecessor.

U-11 - A U9 transaction has been found with no previous U1 entry.

U-12 - A U9 transaction has been found with a C/D code of 1 or 2 and no previous U1-U5-U9 record.

U-13 - A U9 transaction has been found without a U1-U5 predecessor and no UA-short entry: may predate the file.

D-01 - A D-type transaction was found that does not fit into the grade update logic.

D-02 - No previous grade exists.

D-03 - A DB/DH/D2 (promotion) transaction was found where the new grade is not greater than the old grade.

D-04 - A DC/D4/D3 (reduction) transaction was found where the new grade is not less than the old grade.

E-01 - An E-type transaction does not fit into programmed logic.

Z-01 - Transaction record with no matching SRS history record (not an A0 or AN-001 combination, or A6).

Z-02 - Transaction record which is not an A-, R-, D-, U-, E-type or JD, JP type.

Z-03 - RAMS record with no mathcing SRS history record.

Z-04 - RAMS record with missing or invalid depot scores where the master record is more than 6 months old.

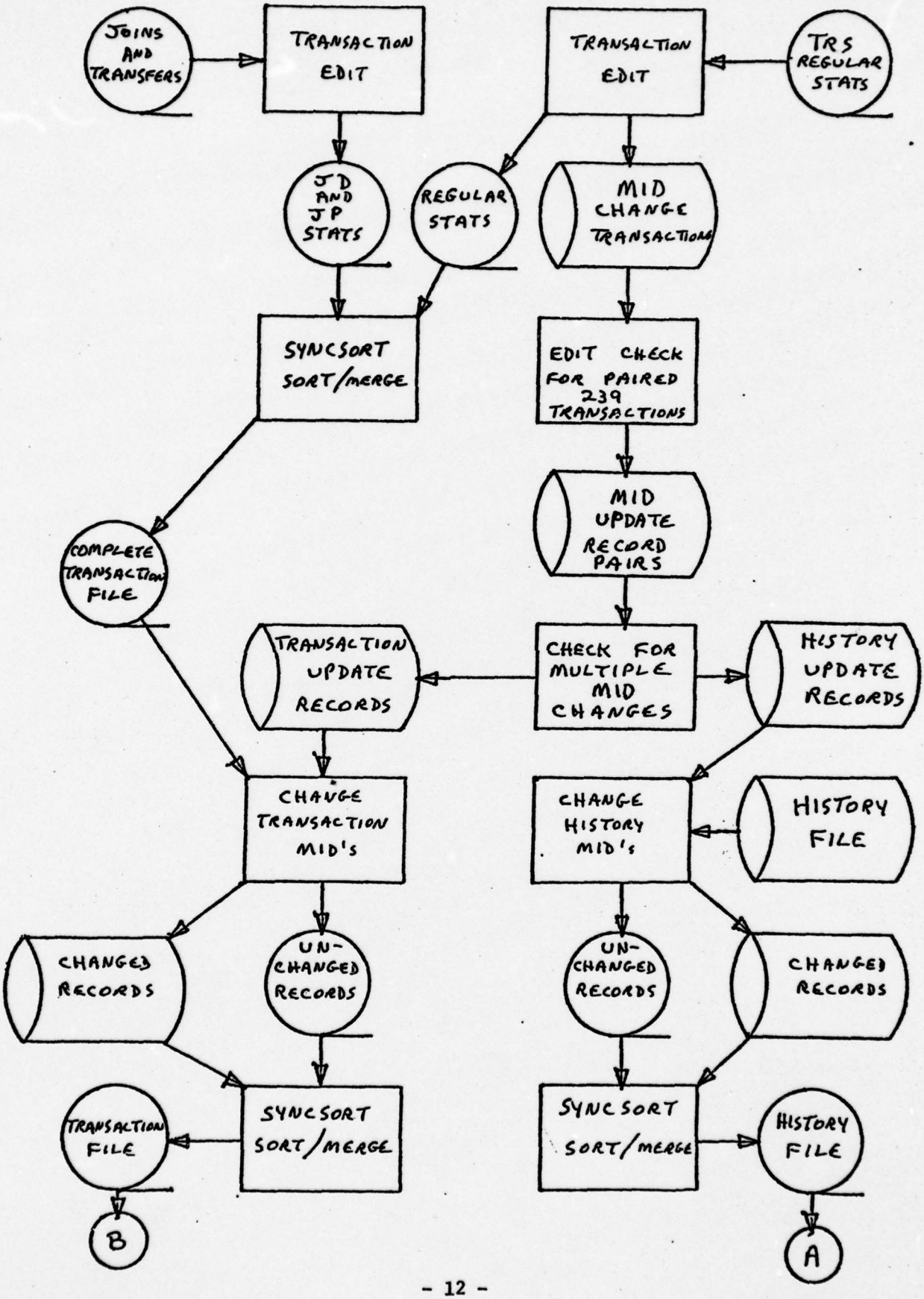
Z-05 - Apparently duplicate transaction record.

3.4 System Flow Chart. The system flow chart shows the interrelationships and inputs/outputs of the programs/processes in the SRS system. For the actual processing the following sequence of jobs is recommended:

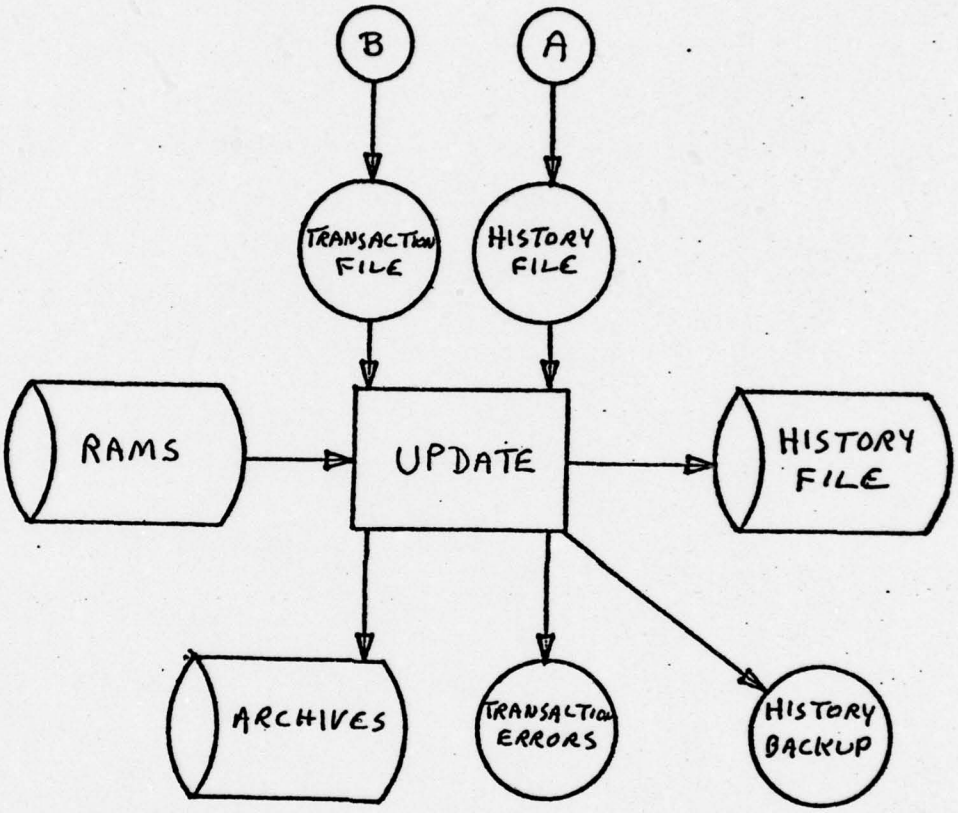
1. SRSX239
2. SRSE239
3. SRS239
4. SRSXJD
5. Merge XJD and X239 output
6. SRSTSSN
7. Merge TSSN output
8. SRSHSSN
9. Merge HSSN output
10. SRSUPDT

The following chart shows the actual relationships among the programs:

SRS SYSTEM FLOW



SRS SYSTEM FLOW
CONTINUED



SECTION 4. PROGRAM DESCRIPTIONS

4.1 Program SRSX239. This program is the first to be run in each cycle. Each cycle will be run on a quarterly basis.

4.1.1 Description. Input to SRSX239 is the TRS file containing the A-, R-, D-type transactions, etc. This program splits the input into two outputs. One output is written onto tape and will be input to the "Merge XJD and X239" process. This tape contains all the regular transactions (everything except JP- and JD-type) that will be used in updating the SRS history.

The second output from this program is written onto a disk file. This file contains all the MID (SSN) change transactions. These transactions are identified with a TCC of AN or R1 and a TTC of 239. This file will be sorted and then input to program SRSE239.

The input to SRSX239 does not have to be in any particular sequence.

4.1.2 Key Fields. The following fields are used in program SRSX239. Changes to these fields in TRS may have an effect on this program.

DATA NAME	DESCRIPTION
MID	Marine identification number
TCC	Type change code
DO-ACTION	Date of action
TTC	Type transaction code

4.01.3 JOB SETUP.

THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//I5703102  JOB  (601R,MP12),'44465  TEEPLES',TIME=(3)
/*ROUTE XEQ 3330
//JOBLIB  DD  DSN=HQMC1.APIM.GIMSLIB,DISP=SHR
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN  DD  *
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSX239G
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSX239D
/*
//  EXEC  PGM=SRSX239
//SYSPRINT      DD  SYSOUT=A
//SYSOUT        DD  SYSOUT=A
//SYSUDUMP      DD  SYSOUT=A
//SYSDBOUT      DD  SYSOUT=A
//STATOUT      DD  DSN=HQMC1.MPI2.C1080.SRSX239G,
//      UNIT=2400-3,
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400),DISP=(NEW,CATLG,DELETE)
//OUT239      DD  DSN=HQMC1.MPI2.C1080.SRSX239D,DISP=(NEW,CATLG,DELETE),
//      SPACE=(TRK,(60,2),RLSE),
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400),UNIT=3330
//STATFILE      DD  DISP=OLD,DSN=HQMC1.MPI2.C1080.PS14RMHF.G76V6V00
/*
//  EXEC  IELEASE,PARM='15703112'
/*
//
```

Note 1. The DSNAME labels that appear in the uncatalog statements (lines 8 and 9) must be the same as the DSN labels in STATOUT and OUT239 (lines 16 and 19).

Note 2. The DSN label on the STATFILE DD card must be the name of the current regular transaction file.

4.1.4 Normal Output. The following report copies depict the normal output from this program.

STATISTICAL RETRIEVAL SYSTEM

EDIT/EXTRACT FOR REGULAR STATS

BUILD SEPARATE SSN CHANGE FILE

08/13/77

NORMAL END OF JOB

NUMBER OF REGULAR STAT RECORDS READ	=	36,338
NUMBER OF A - TYPE STAT RECORDS READ	=	9,486
NUMBER OF D - TYPE STAT RECORDS READ	=	10,258
NUMBER OF E - TYPE STAT RECORDS READ	=	1,428
NUMBER OF R - TYPE STAT RECORDS READ	=	7,710
NUMBER OF U - TYPE STAT RECORDS READ	=	7,346
NUMBER OF OTHER STAT RECORDS READ	=	0

NUMBER OF STAT RECORDS ON OUTPUT FILE	=	36,230
NUMBER OF SSN CHANGE RECORDS OUTPUT	=	108

4.2 SRSE239

4.2.1 Description. This program is an edit step in the SSN change process. The purpose of the editing is to ensure that there are pairs of transactions (R1-AN) for each SSN change.

Since the SSN will be different in each of the transactions, the records must be sorted on some common fields to mate up the pairs. The sort fields are name, date of birth and date of transaction. The second step of this job is a sort process to group the transactions by name, etc. The third step performs the editing function of checking for the presence of both transactions.

The input to this program is the disk file output from SRSX239. This program will also output a disk file of edited records to be used as input to SRS239.

4.2.2 Key Fields. The following fields are used in program SRSE239. Changes to these fields in TRS may have an effect on this sort process/ program.

DATA NAME	DESCRIPTION
TCC	Type change code
DO-ACTION	Date of action
MID	Marine identification number
INITS	Initials of name
DO-BIRTH	Date of birth
L-NAME	Last name of Marine

4.02.3 JOB SETUP.

THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//I5703112  JOB  (401R,MPI2),'44165  PEOPLES',TIME=(00,17),TYPRUN=HOLD
/*ROUTE XEQ 3350
//JOBLIB  DD  DSN=HQMC1.401M.SIMSLIB,DISP=SHR
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN DD *
 UNCATLG DSNAME=HQMC1.MPI2.C1080.SRSE239G
/*
//STEP1 EXEC PGM=IERRCOOO
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSOOUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN  DD  DSN=HQMC1.MPI2.C1080.SRSX239D,DISP=OLD
//SORTWK01 DD UNIT=SYSDA,SPACE=(TRK,(100))
//SORTWK02 DD UNIT=(SYSDA,SEP=SORTWK01),AFF=SORTWK01,
//  SPACE=(TRK,(100))
//SORTWK03 DD  UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02)),AFF=SORTWK01,
//  SPACE=(TRK,(100))
//SORTOUT  DD  DSN=&SORTOUT,
//      DISP=(NEW,PASS),
//      UNIT=3350,SPACE=(TRK,(80,2)),
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
//SYSIN  DD  *
 SORT FIELDS=(150,20,CH,A,72,4,PD,A,3,4,PD,A),FILSZ=E4500
/*
//  EXEC  PGM=SRSE239
//SYSPRINT      DD  SYSOUT=A
//SYSOUT        DD  SYSOUT=A
//SYSOOUMP      DD  SYSOUT=A
//SYSOBOUT      DD  SYSOUT=A
//ERRMESSG      DD  SYSOUT=A
//SSNCHOUT      DD  DSN=HQMC1.MPI2.C1080.SRSE239G,
//      DISP=(NEW,CATLG,DELETE),UNIT=3330,
//      SPACE=(TRK,(80,2),RLSE),
//      DCB=(RECFM=FB,LRECL=31,BLKSIZE=3100)
//SSNCHGIN      DD  DSN=&SORTOUT,
//      DISP=(OLD,DELETE),UNIT=3330
/*
//  EXEC  IELEASE,PARM='I5703122'
/*
//
```

Note 1. The DSNAME in the uncatalog statement (line 8) must be the same as the DSN in the SSNCHOUT DD statement (line 33).

Note 2. If the positions of the L-NAME, DO-BIRTH, or DO-ACTION changes in the TRS file, corrections will be needed in the SORT FIELDS card (line 25).

4.2.4 Normal Output. The following report copies depict the normal output from this program.

STATISTICAL RETRIEVAL SYSTEM

EDIT PAIRED SSN CHANGE RECORDS

08/15/77

NORMAL END OF JOB

NUMBER	OF	SSN	CHANGE	RECORDS	READ	=	956
NUMBER	OF	SSN	CHANGE	RECORDS	OUTPUT	=	478
NUMBER	OF	SSN	ERROR	RECORDS	OUTPUT	=	0

4.3 SRS239

4.3.1 Description. This program forms a table of SSN changes to detect multiple changes for an individual. For instance, if a Marine has the MID number A and changes it to the number B then later changes it to C the program is designed to detect these changes. There may be some transactions under number A that must be changed to C . Similarly, there may be some transactions filed under number B that also must be changed to C . This program constructs correction records that will be used to update the SSNs in the transaction file as well as the history file.

The output from this program is two disk files; one for correcting transaction records, one for correcting history records.

The input to this program is the edited paired records from SRSE239.

4.3.2 Key Fields. This program depends on its input from constructed records produced by SRSE239. As long as the MID field is character and the date of action is packed decimal, no changes should be necessary.

4.03.3 JOB SETUP.
THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//I5703122  JOB  (601R,MPI2),'44165  TEEPLES',TIME=(00,17),TYPRUN=HOLD
/*ROUTE XEQ 3350
//JOBLIB  DD  DSN=HQMC1.A01M.GIMSLIB,DISP=SHR
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN DD *
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSG.STATUP
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSG.HISTUP
/*
//     EXEC  PGM=SRS239,REGION=150K
//SYSPRINT      DD  SYSOUT=A
//SYSOUT        DD  SYSOUT=A
//SYSUDUMP      DD  SYSOUT=A
//SYSUBOUT      DD  SYSOUT=A
//INFILE      DD  DSN=HQMC1.MPI2.C1080.SRSE239G,DISP=OLD
//WORK1        DD DSN=&A,DISP=(,PASS),SPACE=(CYL,1),UNIT=3330,
//              DCB=(RECFM=F,LRECL=31,BLKSIZE=31)
//WORK2        DD DSN=&B,DISP=(,PASS),SPACE=(CYL,1),UNIT=3330,
//              DCB=(RECFM=F,LRECL=31,BLKSIZE=31)
//TROUT      DD  DSN=HQMC1.MPI2.C1080.SRSG.STATUP,UNIT=3330,
//      DISP=(,CATLG,DELETE),SPACE=(TRK,(1,1),RLSE),
//      DCB=(RECFM=FB,LRECL=31,BLKSIZE=3100)
//HISTOUT      DD  DSN=HQMC1.MPI2.C1080.SRSG.HISTUP,UNIT=3330,
//     DISP=(,CATLG,DELETE),SPACE=(TRK,(1,1),RLSE),
//     DCB=(RECFM=FB,LRECL=20,BLKSIZE=2000)
/*
//  EXEC  IELEASE,PARM='I5703202'
/*
//
```

Note 1. The DSNAME in the first uncatalog statement (line 8) must match the DSN in the TROUT DD statement (line 21).

Note 2. The DSNAME in the second uncatalog statement (line 9) must match the DSN in the HISTOUT DD statement (line 24).

4.3.4 Normal Output. The following report copies depict the normal output for this program.

0005564656 $ 0005565646 $ 740317 * 720619
0005565646 % 0005565646
0527840551 $ 0527840551 $ 740406 * 751031
0527840551 % 0527840551
0297541328 $ 0297541329 $ 740331 * 730201
0297541328 % 0297541329
0501603761 $ 0501663761 $ 740314 * 730730
0501603761 % 0501663761
0414807373 $ 0414807373 $ 740125 * 710105
0414807373 % 0414807373
0320459075 $ 0320469075 $ 740601 * 730123
0320459075 % 0320469075
0496701490 $ 0469701490 $ 740407 * 730731
0496701490 % 0496701490
0245846136 $ 0245846736 $ 740521 * 720728
0245846136 % 0245846736
0439496171 $ 0439946171 $ 740331 * 730308
0439496171 % 0439946171
0245880591 $ 0254880591 $ 740507 * 720523
0245880591 % 0254880591
0174443417 $ 0172443417 $ 740505 * 710312
0174443417 % 0172443417
0345425333 $ 0349425333 $ 740121 * 701102
0345425333 % 0349425333
0190429292 $ 0190429202 $ 740226 * 700727
0190429292 % 0190429202
0259948194 $ 0257948194 $ 740310 * 720718
0259948194 % 0257948194
0516525490 $ 0516625490 $ 740100 * 700805
0516525490 % 0516625490
0305585506 $ 0302585506 $ 740526 * 730906
0305585506 % 0302585506
0201443048 $ 0201444830 $ 740409 * 751228
0201443048 % 0201444830
0214640060 $ 0214640600 $ 740616 * 710810
0214640060 % 0214640600
0187500357 $ 0187509785 $ 740601 * 730501
0187500357 % 0187509785
0266701577 $ 0226701577 $ 740219 * 721010
0266701577 % 0226701577
0351483414 $ 0351482865 $ 740504 * 730110
0351483414 % 0351482865
0253505404 $ 0253905404 $ 740210 * 720426
0253505404 % 0253905404
0298467744 $ 0298467944 $ 740129 * 731219
0298467744 % 0298467944
0264308901 $ 0264508901 $ 740317 * 611004
0264308901 % 0264508901
0245966505 $ 0245966504 $ 740102 * 730523
0245966505 % 0245955504
0437880572 $ 0437888993 $ 740421 * 720830
0437880572 % 0437888993
0544608117 $ 0544608117 $ 740226 * 711021
0544608117 % 0544608117
0300481227 $ 0300481277 $ 740210 * 710405
0300481227 % 0300481277
0132422672 $ 0132427629 $ 740226 * 720630
0132422672 % 0132427629
0140449325 $ 0140446955 $ 740119 * 730619
0140449325 % 0140446955
0416064575 $ 0461064575 $ 740514 * 730917

4.4 SRSXJD

4.4.1 Description. This program accepts one of the transaction files as input. It expects the file containing the JD-, JP-, TR-type transactions. The JD and JP transactions are split off the file and output onto a tape. The TR transactions are ignored.

The output of this program is fed into the "sort/merge XJD and X239" process (along with the output from SRSX239).

4.4.2 Key Fields. The following fields are used by this program. Any changes to these fields in TRS may affect this program.

NAME	DESCRIPTION
TCC	Type change code
DO-ACTION	Date of action
MID	Marine identification number

4.04.3 JOB SETUP.

THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//I5703202  JOB  (601R,MP12),'44165  PEOPLES',TIME=(3),TYPRUN=HOLD
/*ROUTE XEQ 3350
//JOBLIB  DD  DSN=HQMC1.A01M.GIMSLIB,DISP=SHR
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN DD *
 UNCATLG  DSNAME=HQMC1.MP12.C1080.SRSXJDG
/*
//  EXEC  PGM=SRSXJD
//SYSPRINT      DD  SYSOUT=A
//SYSOUT        DD  SYSOUT=A
//SYSUDUMP      DD  SYSOUT=A
//SYSUBOUT      DD  SYSOUT=A
//TRJDIN      DD  DSN=HQMC1.AP71.C1790.PS14GTJH.G7606V00,DISP=OLD
//JDOUT      DD  DSN=HQMC1.MP12.C1080.SRSXJDG,
//      UNIT=2400-3,
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400),DISP=(NEW,CATLG,DELETE)
/*
//  EXEC  IELEASE,PARM='I5703212'
/*
//
```

Note 1. The DSNAME in the uncatalog statement (line 8) must be the same as the DSN in the JDOUT DD statement (line 16).

Note 2. The DSN in the TRJDIN DD statement (line 15) must be the name of the current transaction file containing the TR-, JD-, JP-type transactions.

4.4.4 Normal Output. The following report copy shows what the normal output should be.

STATISTICAL RETRIEVAL SYSTEM

JOIN/TRANSFER EDIT/EXTRACTION

08/16/77

NORMAL END OF JOB

NUMBER OF JOINED STAT RECORDS READ	=	19,007
NUMBER OF TURBULENCE STAT RECORDS READ	=	0
NUMBER OF OTHER STAT RECORDS READ	=	56,245
TOTAL NUMBER OF STAT RECORDS OUTPUT	=	19,007

4.5 Merge XJD and X239 Output

4.5.1 Description. This job is a three-step process. All of the steps use Syncsort. The first two steps are sorts and the last step is a merge of the outputs of the first two steps.

The input to the first step is the tape that was output from SRSXJD. The input to the second step is the tape that was output from SRSX239.

The output from this process will be a tape file of all the transactions that will be used in the update process. The transactions will be in order by MID and date of action.

4.5.2 Key Fields. The sort fields for this job are:

NAME	DESCRIPTION
MID	Marine identification number
DO-ACTION	Date of action
Col. 1	First character of TCC.

4.05.3 JOB SETUP.
THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//I5703212  JOB  (601R,MPI2),'TEEPLES-SM XJO-X239',TIME=(15),
//    TYPRUN=HOLD
/*ROUTE XEQ 3350
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN DD *
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SR96.SORTSTAT
/*
//STEP1 EXEC PGM=IERRCOOO,REGION=150K
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN  DD  DSN=HQMC1.MPI2.C1080.SRSXJ06,DISP=OLD
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK05 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK06 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTOUT  DD  DSN=&JO,DISP=(NEW,PASS),
//  UNIT=2400-3,DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
//SYSIN DD *
 SORT FIELDS=(11,10,CH,A,3,4,PD,A,1,1,CH,O)
/*
//STEP2 EXEC PGM=IERRCOOO,REGION=150K
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN  DD  DSN=HQMC1.MPI2.C1080.SRSX239G,DISP=OLD
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK03 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK04 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK05 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTWK06 DD UNIT=SYSDA,SPACE=(CYL,(075))
//SORTOUT  DD  DSN=&X239,DISP=(NEW,PASS),
//  UNIT=2400-3,DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
//SYSIN  DD  *
 SORT FIELDS=(11,10,CH,A,3,4,PD,A,1,1,CH,O)
/*
```

4.05.5 CONTINUED.

```
//STEP7 EXEC PGM=IERRCOOO,REGION=150K
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP  DD  SYSOUT=A
//SYSOUT    DD  SYSOUT=A
//SORTIN01  DD  DSN=&JD,DISP=(OLD,DELETE)
//SORTIN02  DD  DSN=&X239,DISP=(OLD,DELETE)
//SORTOUT  DD  DSN=H0MC1.MPI2.C1060.SRSG.SORTSTAT,
//      DISP=(,CATLG,DELETE),UNIT=2400-3,
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
//SYSIN  DD  *
 MERGE FIELDS=(11,10,CH,A,3,4,PD,A,1,1,CH,D)
/*
//  EXEC  IELEASE,PARM='15703222'
/*
//
```

Note 1. The DSNAME in the uncatalog statement (line 8) should be the same as the DSN of the SORTOUT DD statement of the merge step (line 48).

Note 2. The DSN in the SORTIN DD statement of the first sort step (line 14) should be the same as the name of the output file of SRSXJD.

Note 3. The DSN in the SORTIN DD statement of the second sort step (line 30) should be the same as the name of the tape output file of SRSX239.

4.5.4 Normal Output. The following copies of Syncsort output show the normal outputs from this job.

```
SYNCSORT III-AND-A-HALF COPYRIGHT WHITLOW COMPUTER SYSTEMS,INC. 1976   REL 2.0BN  DATE=77/231 TIME=06.52.21
SORT FIELDS=(11,10,CH,4,3,4,PD,A,1,1,CH,D)
```

```
WER045I  END SORT PH
WER124I  TRK  OVER-ALLOC FACTOR= PRIM/USED=1.7
WER054I  RCD IN   120374, OUT   120374
WER169I  IPF'S APPLIED H23456789ABCDEFG
WER052I  END SYNCSORT   OPT= M,  C5703212,STEP1   ,
```

```
SYNCSORT III-AND-A-HALF COPYRIGHT WHITLOW COMPUTER SYSTEMS,INC. 1976   REL 2.08N  DATE=77/231 TIME=07.14.54
SORT FIELDS=(11,10,CH,A,3,4,PD,A,1,1,CH,D)
```

```
WER045I  END SORT PH
WER124I  TRK  OVER-ALLOC FACTOR= PRIM/USED=1.8
WER054I  RCD IN   222668, OUT   222668
WER169I  TPF'S APPLIED H23456789ABCDEFG
WER052I  END SYNCSORT   OPT= M,  C5703212,STEP2   ,
```

```
SYNCSORT III-AND-A-HALF COPYRIGHT WHITLOW COMPUTER SYSTEMS,INC. 1976   REL 2.08N  DATE=77231 TIME=08.42.39
MERGE FIELDS=(11,10,CH,A,3,4,PD,A,1,1,CH,D)
WER054I  RCD IN          , OUT   343042
WER169I  TPF'S APPLIED H23456789ABCDEFG
WER052I  END SYNCSORT   OPT=  ,  C5703212,STEP7   ,
```

4.6 SRSTSSN

4.6.1 Description. This job uses two inputs. One input comes from the "sort/merge XJD and X239 output" process. The other input is the STATUP disk data set from SRS239.

The first step of this job sorts the disk input into old MID order. The disk data records contain both an old and a new MID as a result of the R1-AN transaction records for SSN changes. The old MID will be matched against the current transaction file and when a match is found, the new MID will replace the old MID of the transaction record. The changed transaction record will be written onto a separate (disk) output since it will no longer be in the correct sequence. The unchanged records are written onto a tape in their original sequence.

4.6.2 Key Fields. The following fields are used by this program. Any changes to these fields in TRS may affect the operation of this program.

NAME	DESCRIPTION
DO-ACTION	Date of action
MID	Marine identification number
INITS	Initial letters of Marine's name

4.06.3 JOB SETUP.
THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//I5703222  JOB  (601R,MPI2),'TEMPLES-ISSN',TIME=(04),TYPRUN=HOLD
/*ROUTE XEQ 3350
//JOBLIB  DD  DSN=HQMC1.A01M.GIMSLIB,DISP=SHR
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN DD *
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSCHGSG
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSG.STATSOUT
/*
//STEP2 EXEC PGM=IERRCO00
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN  DD  DSN=HQMC1.MPI2.C1080.SRSG.STATUP,DISP=OLD
//SORTWK01 DD UNIT=SYSDA,SPACE=(TRK,(100))
//SORTWK02 DD UNIT=(SYSDA,SEP=SORTWK01),AFF=SORTWK01,
//  SPACE=(TRK,(100))
//SORTWK03 DD  UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02)),AFF=SORTWK01,
//  SPACE=(TRK,(100))
//SORTOUT  DD  DSN=&STATUP,DISP=(NEW,PASS),
//      UNIT=3350,SPACE=(TRK,(50,2)),
//      DCB=(RECFM=FB,LRECL=31,BLKSIZE=3100)
//SYSIN  DD  *
 SORT FIELDS=(1,10,CH,A)
/*
//  EXEC  PGM=SRSISSN
//SYSPRINT      DD  SYSOUT=A
//SYSOUT        DD  SYSOUT=A
//SYSUDUMP      DD  SYSOUT=A
//ERRMESSG      DD  SYSOUT=A
//SSNCHGIN      DD  DSN=&STATUP,DISP=(OLD,DELETE)
//STATSIN      DD  DSN=HQMC1.MPI2.C1080.SRSG.SORTSTAT,DISP=OLD
//STATSOUT      DD  DSN=HQMC1.MPI2.C1080.SRSG.STATSOUT,
//      DISP=(,CATLG,DELETE),UNIT=2400-5,
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
//CHGSTATS      DD  DSN=HQMC1.MPI2.C1080.SRSCHGSG,
//      DISP=(NEW,CATLG,DELETE),UNIT=3350,
//      SPACE=(TRK,(5,2),RLSE),
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
/*
//  EXEC  RELEASE,PARM='I5703232'
/*
//
```

Note 1. The DSNAME in the first uncatalog statement (line 8) must be the same as the DSN in the CHGSTATS DD card (line 37).

Note 2. The DSNAME in the second uncatalog statement (line 9) must be the same as the DSN in the STATSOUT DD statement (line 34).

Note 3. The DSN in the SORTIN DD statement must be the same as the STATUP disk file output of SRS239.

Note 4. The DSN in the STATSIN DD statement must be the same as the output from the "sort/merge XJD and X239 output" process.

4.6.4 Normal Output. The following copies of reports show the normal output for this program:

STATISTICAL RETRIEVAL SYSTEM

MID CHANGES TO TRANSACTIONS

08/19/77

NORMAL END OF JOB

NUMBER OF SSN CHANGE RECORDS READ	=	478
NUMBER OF TRANSACTION RECORDS INPUT	=	343,042
NUMBER OF UNCHANGED TRANSACTIONS OUTPUT	=	342,546
NUMBER OF TRANSACTION CHANGES OUTPUT	=	496

STATISTICAL RETRIEVAL SYSTEM

PAIRED SSN CHANGE RECORDS WITH

NO MATCHING TRANSACTIONS

08/19/77

OLD MID	DATE OF ACTION	NEW MID	DATE OF ACTION
0005564656	740317	0005565646	720619
0012441612	740123	0017441612	710413
0019091253	740119	0439705202	710603
0039349955	740328	0039349950	720207
0044557608	740408	0055447608	720403
0044608115	740120	0004608115	721117
0047481551	740317	0048471551	730122
0059454851	740304	0059464851	711012
0062449117	740512	0063449117	720825
0062475523	740109	0062485523	710903
0069480278	740212	0069480279	720328
0075440385	740121	0075440384	720703
0080041988	740105	0080401988	691209
0106464289	740106	0106464269	730312
0107445557	740105	0107447753	720707
0110141167	740330	0110420167	720124
0116421642	740203	0116421605	720705
0118476308	740518	0115466305	730111
0121647439	740210	0212647439	721205
0123443611	740121	0123442610	721005
0124389748	740421	0124389798	731103
0126381485	731215	0126381458	730226
0136466875	740127	0138466875	710201
0143662033	740506	0143462033	711102

4.7 Merge TSSN Output

4.7.1 Description. This job is a two step process. The first step is a sort of the changed records output from SRSTSSN. The second step merges the changed records back into the original transaction file.

The input to the first step is the disk file that was output from SRSTSSN. The sort fields are MID and date of action. The inputs to the second step are the (temporary) sorted disk file from above and the tape output of SRSTSSN.

The output will be a tape file of all current transactions corrected for MID changes. This file will be used to update the current history file.

4.7.2 Key Fields. The key fields for this job are the MID field and the DO-ACTION (date of action).

4.07.3 JOB SETUP.

THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//15703232  JOB  (601R,MPI2),'TEEPLES-M-TSSN',TIME=(06),TYPRUN=HOLD
/*ROUTE XEQ 3350
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN DD *
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSG.UPSTAT
/*
//STEP6 EXEC PGM=IERRCOOO,REGION=150K
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN  DD  DSN=HQMC1.MPI2.C1080.SRSCHGSG,DISP=OLD
//SORTWK01 DD UNIT=SYSDA,SPACE=(TRK,(500))
//SORTWK02 DD UNIT=(SYSDA,SEP=SORTWK01),AFF=SORTWK01,
//  SPACE=(TRK,(500))
//SORTWK03 DD  UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02)),AFF=SORTWK01,
//  SPACE=(TRK,(500))
//SORTOUT  DD  DSN=&CHGOUT,DISP=(NEW,PASS),
//      UNIT=3350,SPACE=(TRK,(50,2)),
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
 SORT FIELDS=(11,10,CH,A,3,4,PD,A)
/*
//STEP7 EXEC PGM=IERRCOOO,REGION=150K
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN01  DD  DSN=HQMC1.MPI2.C1080.SRSG.STATSOUT,DISP=OLD
//SORTIN02  DD  DSN=&CHGOUT,DISP=OLD
//SORTOUT  DD  DSN=HQMC1.MPI2.C1080.SRSG.UPSTAT,
//      DISP=(NEW,CATLG,DELETE),UNIT=2400-3,
//      DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400)
//SYSIN  DD  *
 MERGE FIELDS=(11,10,CH,A,3,4,PD,A)
/*
//
```

Note 1. The DSNAME in the uncatalog statement (line 7) should be the same as the DSN in the SORTOUT DD statement (line 30).

Note 2. The DSN in the SORTIN DD statement (line 12) must be the current name of the changed (disk) file output from SRSTSSN.

Note 3. The DSN in the SORTIN01 DD statement (line 27) must be the current name of the tape output from SRSTSSN.

4.7.4 Normal Output. The following copies of output from Syncsort show the normal output from this job.

```
SYNCSORT III-AND-A-HALF COPYRIGHT WHITLOW COMPUTER SYSTEMS,INC. 1976  REL 2.0BN  DATE=77/231 TIME=20.17.13
SORT FIELDS=(11,10,CH,A,3,4,PD,A)
```

```
WER045I  END SORT PH
WER124I  TRK  OVER-ALLOC FACTOR= PRIM/USED=065
WER054I  RCD IN      496, OUT      496
WER169I  TPF'S APPLIED H23456789ABCDEFG
WER052I  END SYNCSORT   OPT= M,  C5703232,STEP6
```

```
SYNCSORT III-AND-A-HALF COPYRIGHT WHITLOW COMPUTER SYSTEMS,INC. 1976 . REL 2.0BN  DATE=77/231 TIME=20.19.09
MERGE FIELDS=(11,10,CH,A,3,4,PD,A)
WER054I  RCD IN          , OUT   343042
WER169I  TPF'S APPLIED H23456789ABCDEFG
WER052I  END SYNCSORT   CPT=   ,  C5703232,STEP7    ,
```

4.8 SRSHSSN

4.8.1 Description. This job uses two inputs. One input is the SRS disk history file. The other input is the HISTUP disk data set from SRS239.

The first step of the job sorts the disk input (from SRS239) into old MID order. The disk data records contain both an old and a new MID as a result of the R1-AN transaction records for SSN changes. The old MID will be matched against the SRS history file. When a match is found, the new MID will replace the old MID in the history record. The changed history record will be written onto a disk output data set since it will no longer be in the correct sequence. The unchanged records are written onto a tape in their original sequence.

4.8.2 Key Fields. The MID field is the only field used by this program.

4.08.3 JOB SETUP.

THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//15703132  JOB  (601R,MPI2),'TEEPLES--EXEC HSSN',TIME=(25),TYPRUN=HOLD
/*ROUTE XEQ 3330
//JOBLIB  DD  DSN=HQMC1.A01M.GIMSLIB,DISP=SHR
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN DD *
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSHIST.TEMPF
 UNCATLG DSNAME=HQMC1.MPI2.C1080.SRSCHGHF
/*
//STEP1 EXEC PGM=IERRCOOO
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN  DD  DSN=HQMC1.MPI2.C1080.SRSF.HISTUP,DISP=OLD
//SORTWK01 DD UNIT=SYSDA,SPACE=(TRK,(100))
//SORTWK02 DD UNIT=(SYSDA,SEP=SORTWK01),AFF=SORTWK01,
//  SPACE=(TRK,(100))
//SORTWK03 DD  UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02)),AFF=SORTWK01,
//  SPACE=(TRK,(100))
//SORTOUT  DD  DSN=&HISTUP,DISP=(NEW,PASS),
//      UNIT=3330,SPACE=(TRK,(80,2)),
//      DCB=(RECFM=FB,LRECL=20,BLKSIZE=2000)
//SYSIN  DD  *
 SORT FIELDS=(1,10,CH,A)
/*
//  EXEC  PGM=SRSHSSN,REGION=150K
//SYSPRINT      DD  SYSOUT=A
//SYSOUT        DD  SYSOUT=A
//SYSUDUMP      DD  SYSOUT=A
//SYSDBOUT      DD  SYSOUT=A
//ERRMESSG      DD  SYSOUT=A
//SYSPRINT      DD  SYSOUT=A
//SSNCHGIN      DD  DSN=&HISTUP,DISP=(OLD,DELETE)
//INPUT     DD  DISP=OLD,VOL=(PRIVATE,,,SER=(SRS001,SRS002)),
//      DSN=HQMC1.MPI2.C1080.SRS-MAST,UNIT=3330
//OUTPUT      DD  DSN=HQMC1.MPI2.C1080.SRSHIST.TEMPF,
//      UNIT=2400-3,
//      DISP=(NEW,CATLG,DELETE),
//      DCB=(RECFM=VB,LRECL=6000,BLKSIZE=13030)
//OUTCHG       DD  DSN=HQMC1.MPI2.C1080.SRSCHGHF,
//      DISP=(NEW,CATLG,DELETE),UNIT=3330,
//      SPACE=(TRK,(2,2),RLSE),
//      DCB=(RECFM=VB,LRECL=6000,BLKSIZE=13030)
/*
//  EXEC  IELEASE,PARM='15703132'
/*
//
```

Note 1. The DSNAME in the first uncatalog statement (line 8) must be the same as the DSN in the OUTPUT DD statement (line 37).

Note 2. The DSNAME in the second uncatalog statement (line 9) must be the same as the DSN in the OUTCHG DD statement (line 41).

Note 3. The DSN in the SORTIN DD statement must be the current data set name of the HISTUP file output from SRS239.

Note 4. The INPUT DSN will always be the SRS master file name.

4.8.4 Normal Output. The following report copies show the normal output from this program.

STATISTICAL RETRIEVAL SYSTEM

MID CHANGES TO HISTORY FILE

09/12/77

NORMAL END OF JOB

NUMBER OF SSN CHANGE RECORDS READ =	478
NUMBER OF SRS HISTORY RECORDS INPUT =	372,247
NUMBER OF UNCHANGED SRS HISTORY RECORDS =	371,843
NUMBER OF SRS HISTORY CHANGES OUTPUT =	404

STATISTICAL RETRIEVAL SYSTEM

PAIRED SSN CHANGE RECORDS WITH

NO MATCHING HISTORY RECORDS

09/12/77

OLD MID	NEW MID
0010884715	0010384715
0028462348	0028426348
0057881374	0057381374
0080377027	0080387027
0086408146	0086408164
0107445557	0107447753
0125352913	0125362913
0136440525	0136440528
0138409223	0138409228
0150424866	0150424846
0152442302	0152442303
0152465246	0152464652
0178428019	0178420819
0180422642	0180422647
0216560352	0216560354
0220647087	0220640778
0226448382	0577705504
0226787751	0226787551
0226797551	0226787551
0242781166	0242780160
0245880591	0254880591
0248846494	0248844696
0248846496	0248844696
0254925770	0254925720

4.9 Merge HSSN Output

4.9.1 Description. This job is a two-step process. The first step is a sort for the changed records that were output on disk by the SRSHSSN program. The second step will merge these changed records back into the original file.

Thus, the output of this process is a tape copy of the SRS history file with the SSN changes applied. This file will be input to the master file update process.

4.9.2 Key Kields. The SRS history record MID is the only field used in this job.

4.09.3 JOB SETUP.

THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//I5703152  JOB  (601R,MPI2),'TEEPLES-MERGE HSSN',TIME=(08),TYPRUN=HOLD
/*ROUTE XEQ 3350
//  EXEC PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT  DD  SYSOUT=A
//SYSIN  DD  *
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSF.UPHIST
/*
//STEP6 EXEC PGM=IERRCOOO,REGION=150K
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN  DD  DSN=HQMC1.MPI2.C1080.SRSCHGHF,DISP=OLD
//SORTWK01 DD UNIT=SYSDA,SPACE=(TRK,(500))
//SORTWK02 DD UNIT=(SYSDA,SEP=SORTWK01),AFF=SORTWK01,
//  SPACE=(TRK,(500))
//SORTWK03 DD  UNIT=(SYSDA,SEP=(SORTWK01,SORTWK02)),AFF=SORTWK01,
//  SPACE=(TRK,(500))
//SORTOUT  DD  DSN=&CHGOUT,DISP=(NEW,PASS),
//      UNIT=3350,SPACE=(CYL,(02,2)),
//      DCB=(RECFM=VB,LRECL=6000,BLKSIZE=13030)
//SYSIN  DD  *
 SORT FIELDS=(35,10,CH,A)
 RECORD  TYPE=V,LENGTH=(3560,,,208,208)
/*
//STEP7 EXEC PGM=IERRCOOO,REGION=150K
//SORTLIB DD DSN=SYS1.SORTLIB,DISP=SHR
//SYSUDUMP DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SORTIN01  DD  DSN=&CHGOUT,DISP=(OLD,DELETE)
//SORTIN02  DD  DSN=HQMC1.MPI2.C1080.SRSHIST.TEMPF,DISP=OLD
//SORTOUT  DD  DSN=HQMC1.MPI2.C1080.SRSF.UPHIST,
//      DISP=(NEW,CATLG,DELETE),UNIT=2400-3,
//      DCB=(RECFM=VB,LRECL=6000,BLKSIZE=13030)
//SYSIN  DD  *
 MERGE FIELDS=(35,10,CH,A)
 RECORD  TYPE=V,LENGTH=(3560,,,208,208)
/*
//  EXEC  IELEASE,PARM='I5703152'
/*
//
```

Note 1. The DSN in the SORTIN DD statement (line 13) should be the same as the changed record file output from SRSHSSN.

Note 2. The DSN in the SORTIN02 DD statement (line 31) should be the same as the unchanged output from SRSHSSN.

Note 3. The DSNAME in the uncatalog statement (line 7) should be the same as the DSN in the SORTOUT DD statement (line 32).

4.9.4 Normal Output. The following copies of Syncsort output show the normal output from this process.

```
SYNCSORT III-AND-A-HALF COPYRIGHT WHITLOW COMPUTER SYSTEMS,INC. 1976   3EL 2.0BN  DATE=77/255 TIME=20.19.45
SORT FIELDS=(35,10,CH,A)
RECORD  TYPE=V,LENGTH=(3560,,,288,288)
```

```
WER045I  END SORT PH
WER124I  TRK  OVER-ALLOC FACTOR= PRIM/USED=107
WER054I  RCD IN      404, OUT      404
WER169I  TPF'S APPLIED H2345678 9ABCDEFG
WER052I  END SYNCSORT   OPT= M,  I5703152,STEP6   ,
```

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TN-6041B

```
SYNCSORT III-AND-A-HALF COPYRIGHT WHITLOW COMPUTER SYSTEMS,INC. 1976   REL 2.0BN  DATE=77255 TIME=20.21.33
MERGE FIELDS=(35,10,CH,A)    .
RECORD  TYPE=V,LENGTH=(3560,,,288,288)
WER054I  RCD IN          , OUT    372247
WER169I  TPF'S APPLIED H23456789ABCDEFG
WER052I  END SYNCSORT   OPT=  ,  I5703152,STEP7   ,
```

4.10 UPDATE

4.10.1 Description. There are three inputs to this program; Transactions, History, and RAMS. The transactions have had MID changes applied and were output from SRSTSSN. The history has also undergone MID changes and is the merged output from "Merge HSSN output". The current RAMS file should be used for the RAMS input.

The history file that is produced as output must always be rewritten since the existing history records will grow in size and occupy more space than they did before. A history record that has no transactions to be posted is just copied from input to output. When transactions do exist for a history record, all transactions are posted to the record and then written on the output. For new accession transactions, no history record will exist. Therefore, for new accessions a brand new history record will be constructed from the accession record and a matching RAMS record. If the transactions do not have a history record to update or if they fail some validation check, they are written out as error transactions with an error code indicating the failure. (See Section 3.3 for the error code list.)

There are four outputs from this program; the error transactions, a disk master history file, a tape back-up history file, and an archives file (in the initial stages, the archival output will not be active, thus there are three outputs).

This program calls the assembler language routines READER, READCH, and READRK.

4.10.2 Key Fields. All of the fields in SRS are involved in the update process. See the list of detailed contents appearing in Macro-overview, Section 2.2

4.10.3 JOB SETUP.

THE FOLLOWING SEQUENCE OF CARDS WILL INVOKE THE PROGRAM:

```
//15703152  JOB  (601R,MPI2),'UPDATE',TIME=(30),TYPRUN=HOLD
/*ROUTE XEQ 5550
//JOBLIB  DD  DSN=HQMC1.A01M.GIMSLIB,DISP=SHR
//C5703152  EXEC  PGM=IEHPROGM,REGION=26K
//SYSPRINT DD SYSOUT=A
//SYSOUT DD SYSOUT=A
//SYSIN DD *
 UNCATLG  DSNAME=HQMC1.MPI2.C1080.SRSM7512
/*
//  EXEC  PGM=SRSUPDT,REGION=150K
//SYSPRINT      DD  SYSOUT=A
//ERRMESST      DD  SYSOUT=A
//SYSOUT        DD  SYSOUT=A
//SYSUDUMP      DD  SYSOUT=A
//SYSDBOUT      DD  SYSOUT=A
//ERRMESRM      DD  SYSOUT=A
//RAMSFILE  DD  DISP=OLD,DSN=HQMC1.MPI3.C1081.P20.RAMS-08
//STATFILE      DD  DISP=OLD,DSN=HQMC1.MPI2.C1080.SRSF.UPSTAT
//INPUT         DD  DISP=OLD,DSN=HQMC1.MPI2.C1080.SRSF.UPHIST
//OUTPUT  DD  DISP=OLD,
//      DSN=HQMC1.MPI2.C1080.SRS-MAST,
//      UNIT=5550,VOL=(PRIVATE,,,SER=(SRS001,SRS002)),
//      DCB=(RECFM=VB,LRECL=6000,BLKSIZE=13030),
//      SPACE=(CYL,(402,402))
//STATERR   DD  DISP=(NEW,CATLG,DELETE),UNIT=2400-3,
//         DCB=(RECFM=FB,LRECL=240,BLKSIZE=2400),
//         DSN=HQMC1.MPI2.C1080.SRS.ERRS7512
//OUTCHG      DD  DSN=HQMC1.MPI2.C1080.SRSM7512,
//      DISP=(NEW,CATLG,CATLG),UNIT=2400-3,
//      DCB=(RECFM=VB,LRECL=6000,BLKSIZE=13030)
/*
//
```

Note 1. The DSN in the OUTCHG DD statement (line 33) should be the name of the current tape master file backup.

Note 2. The DSNAME in the uncatalog statement (line 8) should be the same as the DSN in the OUTCHG DD statement (line 33).

Note 3. The DSN in the STATERR DD statement (line 26) should be the name of the current error file.

4.10.4 Normal Output. The following copies of reports show the normal output from this program.

STATISTICAL RETRIEVAL SYSTEM

UPDATING SRS HISTORY FILE

09/22/77

NORMAL END OF JOB

NUMBER OF SRS HISTORY RECORDS INPUT	=	372,204
NUMBER OF SRS HISTORY RECORDS OUTPUT	=	399,524
NUMBER OF RAMS HISTORY RECORDS READ	=	51,508
NUMBER OF RAMS HISTORY RECORDS MATCHED	=	48,947
NUMBER OF TRANSACTION RECORDS READ	=	343,042
NUMBER OF TRANSACTION ERROR RECORDS	=	23,411

TOTAL LENGTH OF SRS HISTORY FILE IS = 129,359,660

STATISTICAL RETRIEVAL SYSTEM

UPDATING SRS HISTORY FILE

RAMS HISTORY FILE RECORDS WITH

NO MATCHING HISTORY RECORDS

09/22/77

NAME	MID	PRESENT MSC	SOURCE OF ENTRY	CAD BASE DATE	ERROR CODE
MCMANUS JR	0002429429	016	AAAA	730126	Z-03
COONS JR	0002441807	016	ADBA	730126	Z-03
DENEAU	0003382496	016	ADBA	730702	Z-03
DAVIS	0004523408	016	ADBA	730221	Z-03
MOODY	0004606332	016	ADBA	730126	Z-03
LEGASSEY	0005607383	016	ADBA	730702	Z-03
RAND	0006544862	016	7F	730703	Z-03
TAPLEY	0006560427	016	ADBA	730702	Z-03
MOORE JR	0006560480	016	ADBA	730702	Z-03
PATTERSON	0007549081	016	ADBA	730702	Z-03
HALE	0007585455	016	ADBA	730702	Z-03
SMITH	0008384535	016	AAAA	730126	Z-03
HOLLOWAY	0003420633	016	AAAA	730126	Z-03
WHITTEN	0010442720	016	ADBA	730702	Z-03

STATISTICAL RETRIEVAL SYSTEM

UPDATING SRS HISTORY FILE

TRANSACTION FILE RECORDS WITH

NO MATCHING HISTORY RECORDS

OR EDIT TEST FAILURES

09/22/77

NAME	MID	TCC	TTC	REC STATUS	DATE OF ACTION	ERROR CODE
MCGEE LEROY	000 0232008	R1	390	E	740301	Z-01
FOX CHARLES D	000 1263370	AN	000	H	740628	Z-01
MUIR STEPHEN F	000 1367769	02	0E2	0	740218	Z-01
MUIR STEPHEN F	000 1367769	CB	0E2	0	740321	Z-01
LECLAIR ERIC S	000 1387394	DC	0E6	0	740129	D-04
CALKINS STEVEN C	000 1387656	JD	0B1	1	740204	Z-01
SHANNON NANCY	000 1409019	JD	0B0	0	740220	Z-05
LAHEY NORMAN E	000 1409245	JD	0B1	0	740115	Z-05
DRIGGS SUSEN A	000 1424478	JD	0B0	0	730727	Z-05
PETERS JOHN D	000 1424882	JD	0B1	0	740417	Z-05
SCHRAMM MICHAEL J	000 1425427	JD	0B1	5	740220	Z-01
SCHRAMM MICHAEL J	000 1425427	JD	0B1	5	740220	Z-01
SCHRAMM MICHAEL J	000 1425427	JD	0B0	1	740512	Z-01
SCHRAMM MICHAEL J	000 1425427	02	0F6	0	740610	Z-01
ANGELO ROBERT M	000 1428212	R1	HQS	H	690122	R-04
ANGELO ROBERT M	000 1428212	R1	HQS	H	690122	R-04
ANGELO ROBERT M	000 1428212	R1	HQS	H	690122	R-04
ANGELO ROBERT M	000 1428212	A6	022	0	690123	A-04
ANGELO ROBERT M	000 1428212	A6	022	1	690123	A-04
ANGELO ROBERT M	000 1428212	A6	022	1	690123	A-04
WHITCOMB RICHARD P	000 1444812	U1	79	0	730111	U-03
WILSON JR ROBERT E	000 1446890	U1	2G9	0	740617	U-03
WILSON JR ROBERT E	000 1446890	U5	2HQ	0	740620	U-09
BLANCHARD GREGORY A	000 1461271	JD	0B1	0	740118	Z-05
WATERHOUSE JOHN K	000 1463399	02	0E2	0	740516	D-03
MACARTHUR JR ARTHUR	000 1467799	R1	HQS	0	730718	R-04
MACARTHUR JR A J	000 1467799	A0	000	H	730719	A-04
JENNA ROBERT P	000 1485349	A6	000	0	740227	A-04
EINSIDLER MICHAEL A	000 2348772	JD	0B0	0	740126	Z-05
MORSE HASKELL	000 2349251	A0	000	H	740130	A-04
RIESENBERG JR JOHN J	000 2386733	02	0E2	0	730904	Z-05
WYANT ROYCE A	000 2406068	02	0E2	0	740317	D-03
BEAN KATHLEEN L	000 2421444	JD	0B1	0	740521	Z-05
MCMANUS JR THOMAS P	000 2429429	JD	0B0	0	740131	Z-01
MCMANUS JR THOMAS P	000 2429429	JD	0B0	0	740313	Z-01
MCMANUS JR THOMAS P	000 2429429	02	0E2	0	740416	Z-01
MURRAY DOUGLAS P	000 2429617	JD	0B1	0	740226	Z-05
SOURIOLLE ROBERT N	000 2429918	A0	000	H	740205	A-04
COONS JR RICHARD W	000 2441807	JD	0B0	0	740127	Z-01
COONS JR RICHARD W	000 2441807	R1	3G5	E	740130	Z-01
CAMERON PAYSON C	000 2443630	JD	CB1	0	731215	Z-05
STEWART THADDEUS E	000 2445183	A0	000	H	740212	A-04
REID STEWART J	000 2448497	JD	0B1	0	731221	Z-05
NICKERSON WAYNE J	000 2448613	JD	0B1	0	740104	Z-05
BROWN WALTER F	000 2462215	U1	2G9	0	740307	U-03