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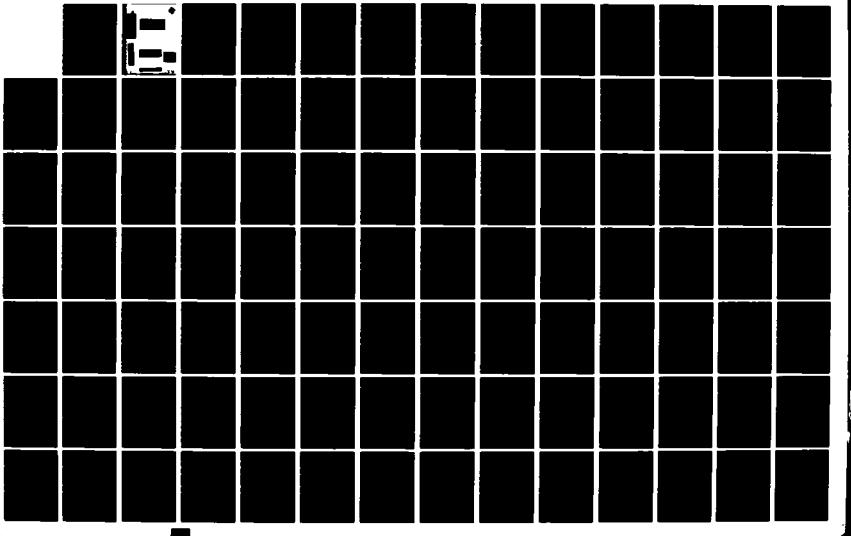

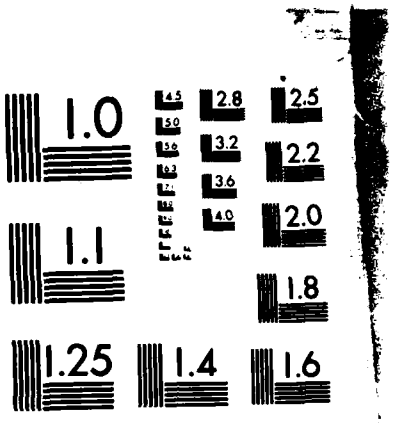

Enhancement and Verification of the Navy CASEE Model (Calendar Year 1982 Task)

Final Technical Report
15 December 1982

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Prepared Under Contract Number
N60921-82-C-0010
(CDRL Item No. A003)
for
Naval Surface Weapons Center (E06)

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In order to respond to evolving aircraft maintenance/material support process and planning procedures and reporting systems, the Navy Comprehensive Aircraft Support Effectiveness and Evaluation (CASEE) Model requires periodic updating and restructuring. The CASEE enhancements described in this report resulted from basic needs within the CASEE user community to have CASEE reflect the changing criteria that are instrumental in evaluating Fleet operating and maintenance policies and options.

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Block 20 Abstract:

Specific enhancements were selected and implemented based on their projected utility in known and anticipated CASEE applications. Each was defined by a problem statement and a corrective action description. Program listings incorporating the enhancements were subsequently generated. A new CASEE version, Version 5, was developed as an initial attempt to reflect (Subsystem Capability Impact Reporting) (SCIR) system reporting criteria. Optional logic was developed to allow CASEE to more accurately simulate Navy Non-Cyclic flight operations that are more typical of shore-based operations. To provide even more visability into the Intermediate Maintenance Activity (IMA), which was enhanced in Version 3, changes were made to improve the ability of CASEE to simulate support equipment availability at the IMA.

ABSTRACT

In order to respond to evolving aircraft maintenance/material support process and planning procedures and reporting systems, the Navy CASEE (Comprehensive Aircraft Support Effectiveness and Evaluation) Model requires periodic updating and restructuring. The CASEE enhancements described in this report resulted from basic needs within the CASEE user community to have CASEE reflect the changing criteria that are instrumental in evaluating fleet operating and maintenance policies and options.

Specific enhancements were selected and implemented based on their projected utility in known and anticipated CASEE applications. Each was defined by a problem statement and a corrective action description. Program listings incorporating the enhancements were subsequently generated. A new CASEE version, Version 5, was developed as an initial attempt to reflect SCIR (Subsystem Capability Impact Reporting) system reporting criteria. Optional logic was developed to allow CASEE to more accurately simulate Navy Non- Cyclic flight operations that are more typical of shore-based operations. To provide even more visibility into the Intermediate Maintenance Activity (IMA), which was enhanced in Version 3, changes were made to improve the ability of CASEE to simulate support equipment availability at the IMA.

The verification process used to ensure the integrity of the enhancements are similar to those employed in previous updating efforts. The process consists of functional logic checks of all enhancements and numerical validation of the enhancements where possible. From these results it is concluded that the enhanced model performs all intended functions in a credible manner. Improved confidence can only come with use of the model or with a dedicated, tailored verification based on fleet experience. It is recommended that further efforts be extended to incorporate additional enhancement candidates.

In addition, it is recommended that a meeting of the Navy CASEE users group be scheduled in the near future to discuss the newly implemented CASEE enhancements. Such a meeting would be most helpful in informing all active users of the CASEE changes which were the result of this enhancement effort as well as discuss selected topics of particular interest to the user community.

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

INTRODUCTION

In the efforts to evaluate and upgrade maintenance and material support of fleet air operations, that includes the Navy Logistics Research Program, computer simulation modeling has proved to be a very cost effective tool with which to evaluate complex situations. The Navy CASEE (Comprehensive Aircraft Support Effectiveness Evaluation) Model is a primary computer simulation model used in the analysis of Integrated Logistic Support (ILS) concepts in support of the fleet air operations. Periodic updates to this model are required to enable it to conform to the evolutionary changes in fleet maintenance reporting procedures and related evaluation requirements. Coupled with changing fleet requirements are advances in computer hardware and software technologies. Such techological advances allow for increased simulation capabilities without restrictive increased costs in model development during simulation run time and execution.

The CASEE Model is now represented by Version 3 and Version 4. Version 3 includes a speed up option which significantly decreases model execution time and is a general model used primarily in simulating carrier-based air operations. Version 4 incorporates features unique to V/STOL (Vertical/Short Take-Off and Landing) aircraft operations. These V/STOL features allow for parent ship/host ship operations; host ship operations with shore based supply support, and host ship operations with no form of supply or maintenance support from any off ship source. The GPSS (General Purpose Simulation System) language is used for all versions of CASEE.

Recent Sea Based Air (SBA) ILS activity resulted in the identification of several additional update candidates for these current versions of CASEE. It was determined that an enhancement and verification effort should be pursued. Three major enhancement areas were to be addressed, namely, the implementation of the Subsystem Capability Impact Reporting (SCIR) readiness reporting criteria per OPNAVINST 4790.2 and 5442.4 series, the incorporation of a non-cyclic launch scheduling routine and the modeling of IMA support equipment availability. The end item would be a new, fully operable, enhanced and verified modification of the previously used version of CASEE. Past procedures for program development, implementation and testing were to be followed to provide assurance of successful end item delivery.

Norden Systems was instrumental in providing computer program development and implementation of the described enhancements. In conformance with a long-standing policy of encouraging periodic enhancement of CASEE, the Naval Air Systems Command (NAVAIR) provided the support required for the final selection and implementation of the enhancement candidates identified under this task. The direct technical participation of both the SBA Logistics Manager (AIR-4105B) and the CASEE Manager (AIR-5143) facilitated the successful accomplishment of the overall enhancement and verification endeavor. Figure 1 shows the overall organizational relationships pertinent to this task.

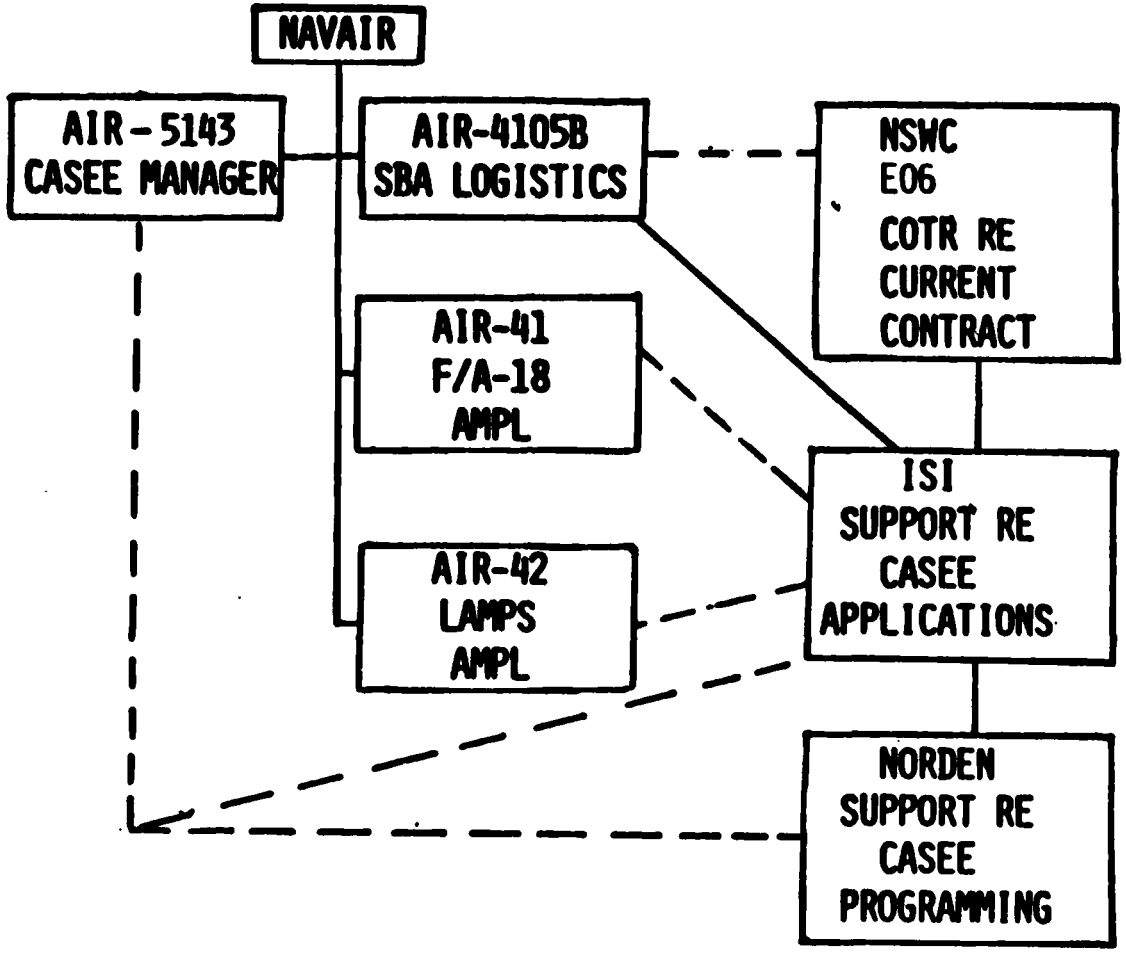


FIGURE 1. CASEE ORGANIZATIONAL RELATIONSHIPS

ENHANCEMENT

General

The enhancements implemented under this task are intended to satisfv three basic needs of the CASEE user community: the need to output CASEE simulation results in a SCIR reporting format, the need to have CASEE more accurately simulate non-cyclic or shore-based launch scheduling flight operations, and the need for more visibility into the impact of support equipment interactions with the overall IMA environment. Because these enhancements, especially the SCIR enhancement, reflect some major changes to the model, a new version of CASEE, Version 5, has been issued.

These enhancements are defined in detail in the following paragraphs. A description of each problem area is provided with particular emphasis placed on the SCIR enhancement. To appreciate the implementation of SCIR readiness reporting criteria in CASEE, the impact of this newly implemented system on weapon system, subsystem and equipment readiness reporting must first be understood. Therefore, a description of the SCIR system and its associated reporting policies and procedures are discussed. The other enhancements are also briefly described. In order to completely identify each enhancement, a set of fully annotated listings of the final form of the CASEE version are included as Appendix A to this report.

Differences Between ASD and SCIR Readiness Reporting Systems

Prior to this effort, all versions of CASEE were modelled to measure and track weapon system readiness status using the Aviation Statistical Data (ASD) reporting system. The Navy SCIR reporting system was implemented on 1 July 1979 for Department of the Navy aircraft,ground support equipment and training devices. The implementing instruction replaced all ASD reporting. This new readiness reporting system was implemented to provide a better and more complete method of determining subsystem availability and relating its performance to aircraft mission capability. To implement this readiness reporting system, newly developed maintenance policies, procedures and responsibilities were established and delineated by the Navy. The objective of this enhancement of CASEE was intended to modify the appropriate model logic to take into consideration the readiness implications brought about by this new reporting system. This enhancement was to provide the CASEE user's community with the means to generate simulation results using the same reporting procedures and mission performance definitions which are consistent with those currently generated by all aircraft reporting custodians.

Under the ASD system there were anomalies inherent in the reporting system which greatly reduced visibility into the impact of maintenance actions upon weapon system readiness. The basic problem in the ASD system is in the occurences of multiple aircraft downing discrepancies. Under the ASD reporting rules, only one of the discrepancies could be reported as putting the aircraft into a Not Operationally Ready (NOR) or Reduced Material Condition (RMC) status. Under these procedures, only the "worst" discrepancy of those available would be documented. It was at the discretion of the maintenance chief to determine which discrepancy of those available was the most significant in terms of degrading aircraft status.

Because the system limited the reporting of only one discrepancy as the cause of aircraft degradation, information on those equipment which are not documented as downing discrepancies were lost and not properly reflected in the data. This problem was commonly known as the "shadowing" effect.

Unlike the ASD system, all condition status information is documented directly on the VIDS/MAF. Information concerning the supply and maintenance conditions along with the Equipment Operational Capability (EOC) code which reflects the capability of the aircraft because of the degraded system is documented against each equipment. Since every discrepancy is documented, "shadowing" is eliminated by the SCIR system.

The most obvious change from the ASD system to the SCIR system is in the reporting terminology. The ASD system is updated in Operational Readiness (OR) related terminology. The SCIR system is reported in Mission Capability (MC) related terminology. The two sets of terminology are generally comparable as is shown in Table 1.

TABLE 1

ASD & SCIR READINESS REPORTING TERMINOLOGY COMPARISON

ASD System Terminology	SCIR System Terminology
Full System Capable (FSC)	Optimum Performance Capability (OPC)
Full System Capable (FSC)	Full Mission Capable (FMC)
Reduced Material Condition (RMC)	Partial Mission Capable (PMC)
Reduced Material Condition-Maintenance (RMCM)	Partial Mission Capable-Maintenance (PMCM)
Not Fully Equipped (NFE)	Partial Mission capable - Supply (PMCS)
Operationally Ready (OR)	Mission Capable (MC)
Not Operationally Ready (NOR)	Not Mission Capable (NMC)
Not Operationally Ready - Unscheduled Maintenance (NORMU)	Not Mission Capable-Unscheduled Maintenance (NMCMU)
Not Operationally Ready-Scheduled Maintenance (NORMS)	Not Mission Capable-Scheduled Maintenance (NMCMS)
Not Operationally Ready-Supply (NORS)	Not Mission Capable-Supply (NMCS)

Under the ASD system, an RMC status was a condition status in which the aircraft was capable of flying more than one but not all of its intended missions. However, no provisions were available to define which missions could or could not be flown under this status. For this reason, the SCIR system was designed to correct this problem by ensuring that any discrepancies that degrade Weapon Replaceable Assembly (WRA) and subsystem performance can be related to specific mission capability. This is accomplished by means of a Mission Essential Subsystem Matrix (MESM) which is utilized as a cross reference to relate subsystems to specific mission requirements. All mission essential subsystems are assigned an Equipment Operational Capability (EOC) code. This code is then used to identify which missions can or can not be flown if this subsystem is not operational. For example, Category B EOC codes designate those subsystems that impact on the optimal performance status of the aircraft while category Z EOC codes designates those equipments that impact on the safety of flight requirements. EOC codes between A and Z are used for other missions of varying degrees. When a given subsystem generates a downing discrepancy, it can then be readily determined what missions are affected. This type of reporting provides much more consistency and visibility in defining and assessing mission capabilities and availability than was previously provided under the ASD system. SCIR provides exact information as to the availability of the aircraft for each mission type and the needed visibility in defining which subsystem was responsible for any degradation.

In providing more insight into mission capability and subsystem degradation than ASD, the SCIR system allows for different and more detailed output reports to be generated. The SCIR system and therefore the SCIR enhancement resulted in a significant increase in the number of output data elements which are produced. Readiness related data are traced and summarized at the weapon system level, subsystem level and component level. In addition, system impact, discrepancy detail and unavailable hours are provided for each readiness level and assigned as either maintenance or supply responsibility.

CASEE SCIR Logic Description

In generating new output reports and categories to comply with the SCIR system, most of the computer coding changes required to convert Version 3 to Version 5 involved the accumulation of mission capability statistics and the placement of these statistics in the proper matrix rows and columns. The configuration changes to the computer code in this effort were extensive. One subprogram was virtually rewritten and several subprograms were added. Additional computer code changes were incorporated in the model to determine aircraft status. This was due to differences in methodologies in determining aircraft status in the ASD system and the SCIR system. In the ASD system, probabilties were used to generate aircraft OR, NOR, and RMC discrepancies. In the SCIR enhancement, probabilities of generating downing discrepancies against appropriate EOCs were defined. While the methodologies for determining aircraft status are similar, they are not identical and the differences are reflected in the coding changes and in the necessary probability measures required to implement the methodologies.

The probability categories that are required to implement the SCIR system in CASEE are provided in Table 2. Readiness-related probablities, employed in Version 3, are also provided in this table for comparison. As may be seen by analyzing the table, the probability changes from the ASD system to the SCIR system primarily entails eliminating the probabilities related to NOR and RMC status and incorporating probabilities relating discrepancies to EOC codes for each of the aircraft components defined in the matrix.

In revising the discrepancy classification methodology to implement the SCIR reporting system in Version 5, the EOC code probabilities had to be used in the following manner. Each discrepancy is checked to see if it should have a subsystem EOC code assigned, an A00 code or no EOC at all. The subsystem EOC code relates the WRA to a subsystem. If a discrepancy is assigned the subsystem EOC code, it precludes the aircraft from flying any mission types requiring that subsystem. If the subsystem takes on the A00 EOC code, the discrepancy will not preclude any mission from being flown until the actual repair process has begun on the aircraft. Once a repair action begins (In-Work) on the WRA, the WRA will be reassigned the subsystem EOC code or an alternate In-Work EOC code. This alternate EOC code may also be assigned to a discrepancy that was originally classified with a subsystem EOC code once the aircraft is In-Work. The alternate EOC code reflects a further degradation in aircraft mission capability than is reflected in the subsystem EOC code. The alternate EOC code is assigned to the WRA when the repair action required to correct the original discrepancy impacts another, more mission critical aircraft subsystem in a disabling manner.

TABLE 2

ASD SYSTEM AND SCIR SYSTEM INPUT DATA COMPARISON

ASD System Inputs

1. Column # 10. - Ground Abort Probability (X1000)
2. Column # 33. - Probability (X1000) of causing NOR - Ground Crew Inspection
3. Column # 34. - Probability (X1000) of causing NOR - Air Crew Inspection
4. Column # 35. - Probability (X1000) of causing NOR - Daily Inspection
5. Column # 36. - Probability (X1000) of causing NOR - Inflight
6. Column # 37. - Probability (X1000) of causing RMC - Ground Crew Inspection
7. Column # 38. - Probability (X1000) of causing RMC - Air Crew Inspection
8. Column # 39. - Probability (X1000) of causing RMC - Daily Inspection
9. Column # 40. - Probability (X1000) of causing RMC - Inflight

SCIR System Inputs

1. Columns #33 - Subsystem (MESM) EOC code.
2. Columns #34 & 38 - Probability (X1000) of discrepancy having Subsystem EOC code when received for Remove and Replace and Repair-In-Place action respectively.
3. Columns #35 & 39 - Probability (X1000) of discrepancy having A00 EOC code when received for Remove and Replace and Repair-In-Place action respectively.
4. Columns #36 & 40 - Probability (X1000) of discrepancy having Alternate EOC code in-work for Remove and Replace and Repair-In-Place action respectively.
5. Columns #37 & 41 - Alternate In Work EOC code, if any for Remove and Relace and Repair-In-Place action respectively.

The actual logic flow in Version 5 used to determine the status of a discrepancy is shown in Figure 2. It should be noted that in Table 2, there are two entries for EOC inputs 2 through 5. These two sets of inputs are used to differentiate between a Remove and Replace (R/R) action and a Repair-In-Place (RIP) action. This differentiation will be numerically illustrated in the verification section. The logic flow for determining discrepancy EOC status is the same for both R/R and RIP actions. The following discussion will explain the logic flow diagram in terms of the numbers assigned to the logic blocks shown in Figure 2.

Block Number 1 - A newly generated discrepancy initiates processing. Using the input in column 33, a determination is made to see if the discrepancy has a subsystem EOC code. If the discrepancy does not have a subsystem EOC code, it joins other squadron discrepancies and the discrepancy is classified as a non-downing discrepancy. If the discrepancy has an EOC code, it goes to block #2 for further processing.

Block Number 2 - For discrepancies with a subsystem EOC code, a random draw is made to see if the discrepancy should be assigned the subsystem EOC code. This determination is made using the probability defined in column 34 or 38. If the discrepancy is assigned a subsystem EOC code it is sent to block #3 for processing. If the discrepancy does not have the EOC code assigned to it, it is processed at block #4.

Block Number 3 - Discrepancies with a subsystem EOC assigned to them have the appropriate subsystem EOC code statistics compiled. The discrepancy is then sent to block #6 for processing.

Block Number 4 - Discrepancies that have a related subsystem EOC code but are not assigned this EOC code when received initiate processing to see if they should be assigned an A00 EOC code. The probability of this happening is dependent on the probabilities defined in columns 35 or 39. The A00 code probability is added to the subsystem EOC code probability for processing at block #5.

Block Number 5 - Items having a probability of being assigned an A00 EOC code are now processed against the same probability measure that rejected the assignment of the subsystem EOC code to the discrepancy. If the discrepancy is not assigned an A00 code it is joined with other squadron discrepancies. If the discrepancy is assigned an A00 code, the appropriate A00 code statistics are compiled and the discrepancy is sent to block #6 for processing.

Block Number 6 - For the discrepancies assigned a subsystem EOC code or an A00 code there may exist a probability that an alternate EOC code will be assigned to these actions during In-Work status. The probability of an alternate EOC code In-Work is defined in column 37 or 41. If these columns have no input,

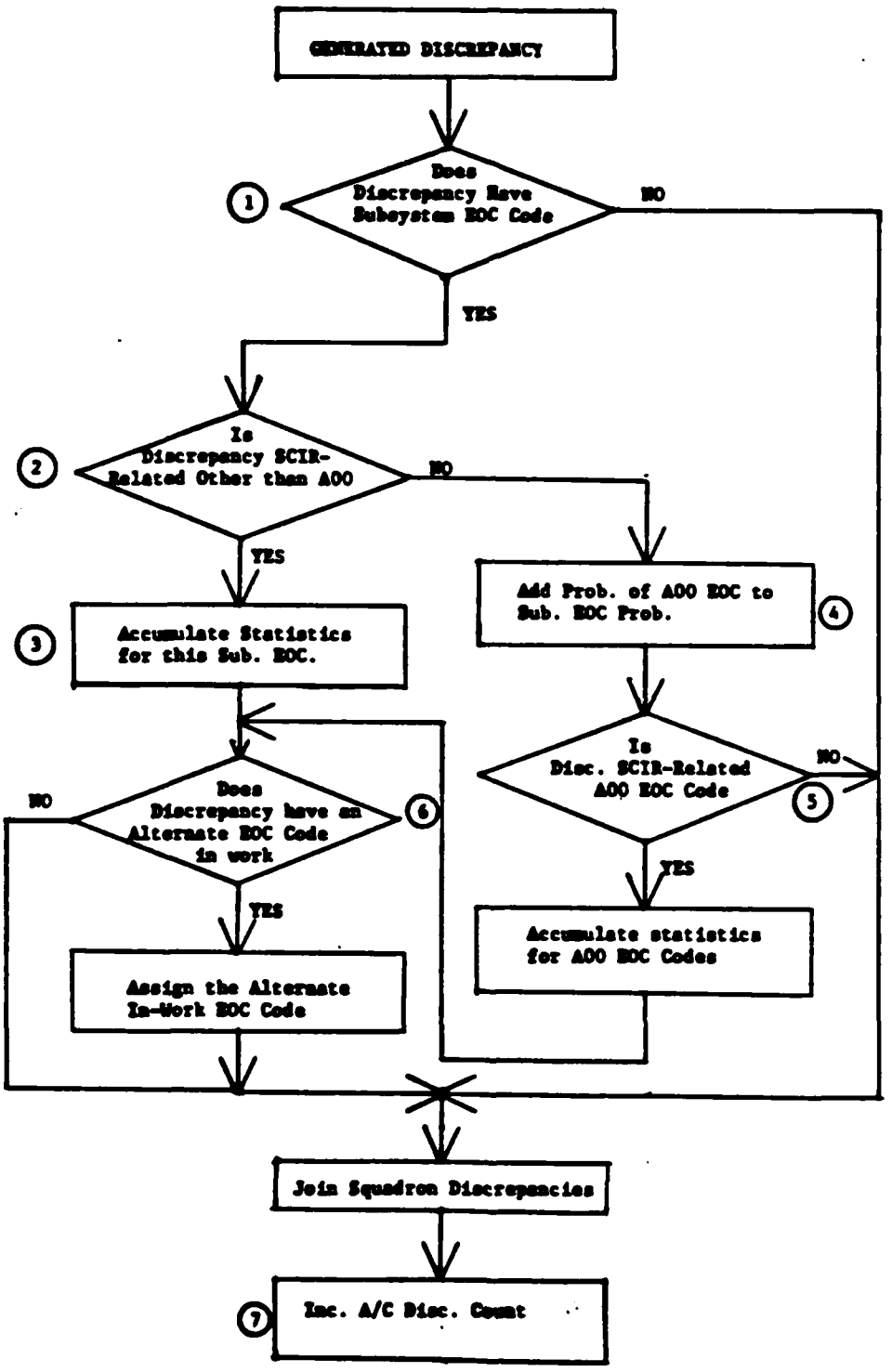


FIGURE 2

SCIR LOGIC FLOW DIAGRAM

an alternate EOC code in work cannot be assigned and the discrepancy will be sent to join the other squadron discrepancies as non-SCIR related. If these columns have a valid alternate EOC code, a random draw is made to see if the alternate EOC code should be assigned to the discrepancy. This determination is made with the probability defined in column 36 or 40. After determination is made as to the In-Work EOC code, the discrepancy is sent to join other squadron discrepancies.

Block Number 7 - At this block the aircraft discrepancy count is increased. This keeps the aircraft discrepancy count current.

SCIR Output Data Description

Under the ASD reporting versions, readiness hours were measured against each individual aircraft and reported in the REDI matrix for each squadron simulated. ASD related Awaiting Maintenance hours (AWM) are reported in the AWMR matrix. These hours are summarized by NORM and RMC categories.

In the SCIR reporting version, readiness hours against the aircraft are reported in the UTIL matrix. This matrix is comparable to the old REDI matrix but uses SCIR terminology. The AWMR matrix is also used in the SCIR based version of CASEE, however, awaiting maintenance hours are summarized by FMC, PMC and NMC categories. Unlike the ASD reporting version both SCIR impact hours and SCIR discrepancy hours are reported.

The SYST matrix in Version 5 is analogous to the SYSH matrix in Version 3. Both matrices are a compilation of the information in the MXLIB (matrix library). However, the SYST matrix has been expanded to accumulate impact and discrepancy time by subsystem for NMC, PMC and AWM categories.

Two new matrices have been added to CASEE in Version 5 to accomodate the additional reporting outputs generated by the SCIR system. The first of these matrices is the MCAP matrix. Impact hours for the reporting period are logged against each aircraft in the squadron and then against each mission code that the aircraft is capable of flying. The second new matrix included in Version 5 is the SCIM (SCIR Impact Summary) matrix. This matrix summarizes impact and discrepancy hours against each possible EOC code for both maintenance and supply categories.

A description of the CASEE Version 5 Mod 2 input and output matrices is provided in Appendix A. Matrix changes and additions reflecting the added SCIR logic and the non-cyclic launch scheduling routine, discussed in the next section, are delineated to the right of the comment statements.

Non-Cyclic Launch Scheduling Routine

The second enhancement described in this report is the Non-Cyclic Launch Scheduling option. In CASEE, an aircraft carrier's flight operations are referred to as cyclic operations while a shore-based flight operations are referred to as non-cyclic operations. This terminology will be used in this report. Non-cyclic launch scheduling operations in CASEE are characterized by launch times that are not governed by a deck cycle, typical of carrier based air operations. The launch times for cyclic operations and non-cyclic operations are defined in military time. In addition, the non-cyclic launch times utilize user defined launch windows which provide flexibility in achieving the scheduled launches. Provisions for flight quarters, and aircraft respot times utilized in cyclic operations are not needed during non-cyclic operations.

Cyclic operations are presently defined in terms of launch cycles in the Airplan matrices. The Airplan matrices are also used to define the missions to be flown at each launch event, the number of alert aircraft required for each launch event by mission types, and the minimum number of aircraft required to fly each mission. However, while in cyclic operations the mission duration is defined in terms of carrier launch cycles, for non-cyclic operations the mission duration is defined in terms of clock units (one tenth of an hour) using military times. The launch window option which was implemented for non-cyclic operations enhances mission accomplishment as discussed in the following paragraph.

Aircraft missions are set to launch at a specified time. In the simulated cyclic operations if the minimum number of aircraft required to fly the desired mission are not available, that mission is cancelled. This cancellation is a function of having mission times defined by a stringent flight deck cycle. The nature of shore based flight operations however, may allow for mission times to be more flexible since there exists less constraints on launch activities compared to those on a carrier. It is recognized that certain missions must be launched within a few minutes of the schedule to make commitments over bombing ranges, etc. Inclusion of a launch window allows more time for the required number of aircraft to become available to fly a mission. To illustrate the launch window concept, assume a mission required six airplanes to be launched, but six aircraft were not available exactly at the time of launch. If there was a launch window of one hour associated with this mission, and the additional needed aircraft became available for launch within this hour, the mission would be flown. However, if the original mission capable aircraft could have been used for lower priorty missions during the launch window time period they would have flown these missions. Aircraft are not reserved for higher priority missions during a launch window.

For cyclic operations, provisons were made for flight quarters and respot activities. As related to air operations and

maintenance procedures, flight quarters and aircraft respoting allow some activities to take place and precludes others from taking place. However, in non-cyclic flight operations flight quarters and aircraft respoting were not integrated into flight/ maintenance activities as they are in cyclic operations and therefore, are not simulated in the CASEE non-cyclic operation option. Cyclic operations also provide for in-cycle flight deck maintenance. This option is not provided in non-cyclic operations. Though these changes are simple in principle, they still required substantial review and revision of the carrier based CASEE logic and coding.

To accommodate the inclusion of non-cyclic operations in Version 5 of CASEE, several clarifications and changes had to be made to existing input matrices. Two additional input matrices had to be developed. These non-cyclic related matrix changes will now be discussed.

Additional inputs were required in the EXEC matrix, the COMPL matrix, and Airplan matrices. Additional outputs were required in the MISX matrices. The two matrices that were added to Version 5 to accommodate this enhancement were the LTIMC matrix and the LTIM matrix.

The LTIMC matrix is used only in conjunction with cyclic operations. This matrix defines the carrier launch cycle on a day-by-day basis. This cycle is used by all aircraft squadrons on board the carrier. The LTIM matrix is to be used in conjunction with non-cyclic operations. This matrix defines the daily squadron launch times. A new-matrix is defined for each squadron (LT1M1, LT1M2, etc.). Both matrices require the same set of inputs which are the total launch events per day, and the time of day of each launch event using the 24-hour clock for each day of flight operations.

IMA Support Equipment (SE) Description

The final enhancement which was performed by the study team under this effort was in the CASEE IMA logic. Calendar year 1981 enhancements to this segment of the CASEE logic provided the realistic modeling of component Turnaround Times (TAT) and the subsets of that which include processing, scheduling, actual repair time and awaiting parts. In order to establish a limited capability in the CASEE model to simulate SE availability and measure its impact on IMA component TAT an enhancement to the CASEE model was initiated.

Currently, the IMA logic can be activated by the CASEE user by introducing the appropriate logic statements through the Update Deck. The primary function of the Update Deck, as illustrated in Figure 3, is to provide the necessary interface between the CASEE user and the master source file. In a secondary capacity it frequently serves as a means of introducing temporary modifications into the model logic without revising the master. As long as users of a given Version and Modification of CASEE employ the same Update Deck, identical runs should give identical results.

An eventual outcome of the use of the Update Deck as a means of temporary modification is that the resultant increase in the number of cards makes it more difficult to handle and it becomes relatively inefficient in performing its primary function. At some such point it is necessary to conduct a total review of the temporary Update Deck entities, determine if any should be retained and decide whether it is appropriate to initiate their incorporation into the master source file.

The SE that was considered for the enhancement effort and is described in this section is the AN/USM-469 Radar Test Station (RTS). This SE serves as the primary support equipment for the F/A-18 Radar Set. To be consistent with the current IMA configuration, the SE enhancement was also programmed through the Update Deck. Figure 4 presents the logic flow diagram of the SE enhancement.

Since the AN/APG-65 contains a mixture of digital and analog components, the RTS provides a digital port and an analog port. When either port is down for maintenance the other port will normally be able to continue testing components. The exception is a failure in the central processor or the power supply of the RTS, which are common to both ports and therefore would render the entire RTS inoperable.

The most interesting aspect of this interaction is the repair of the RTS itself. The entire station must be shut down in order to repair either side, even if the power supply or central processor are not involved. If the digital side is down while the analog side is up, for instance, a decision must be made as to whether the entire station should be shut down completely to repair the digital port, or to continue to repair analog items, while allowing the di-

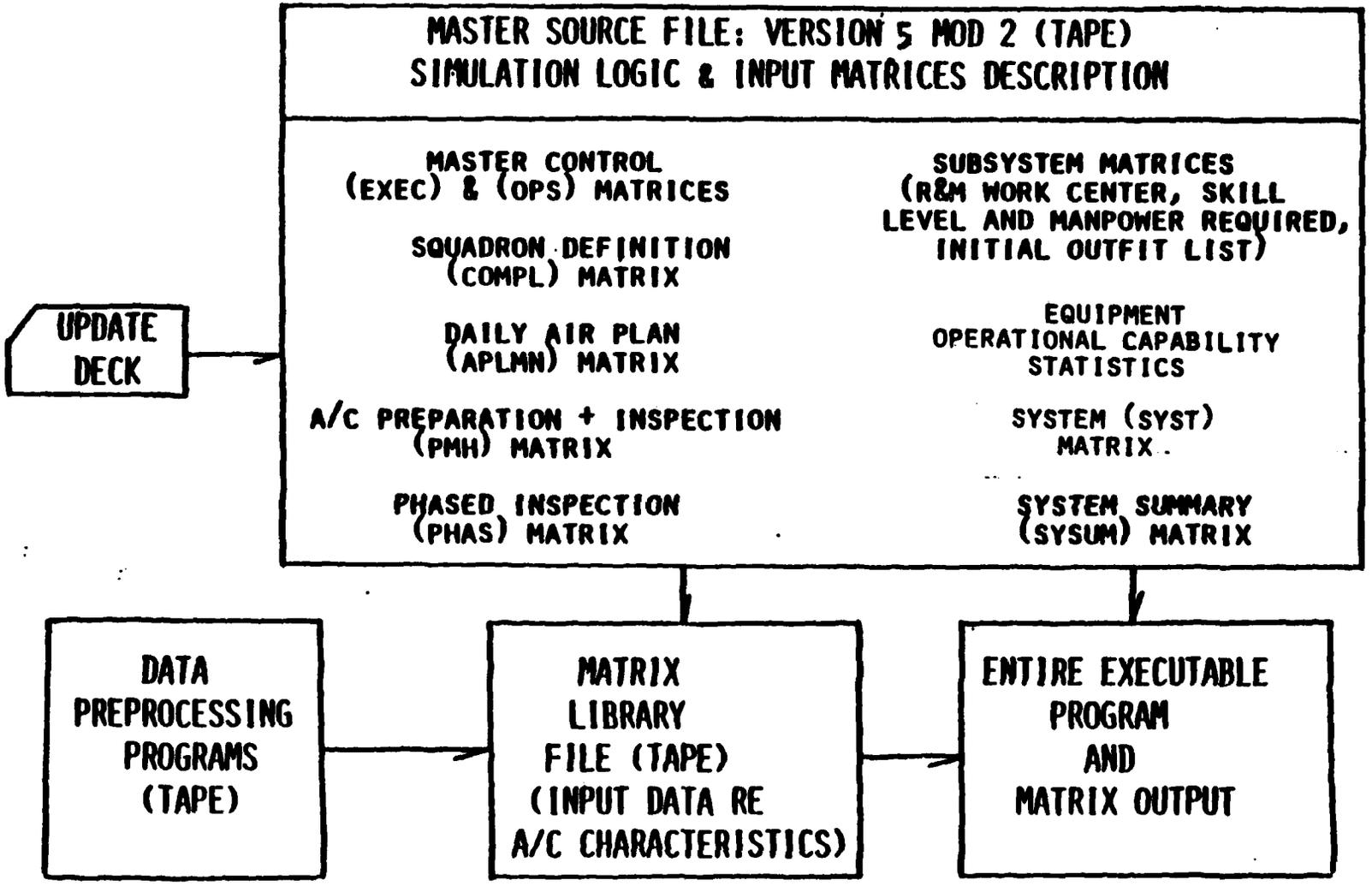


FIGURE 3 CASEE SIMULATION MODEL ELEMENTS

FIGURE 4

RADAR TEST STATION SIMULATION LOGIC FLOW DIAGRAM

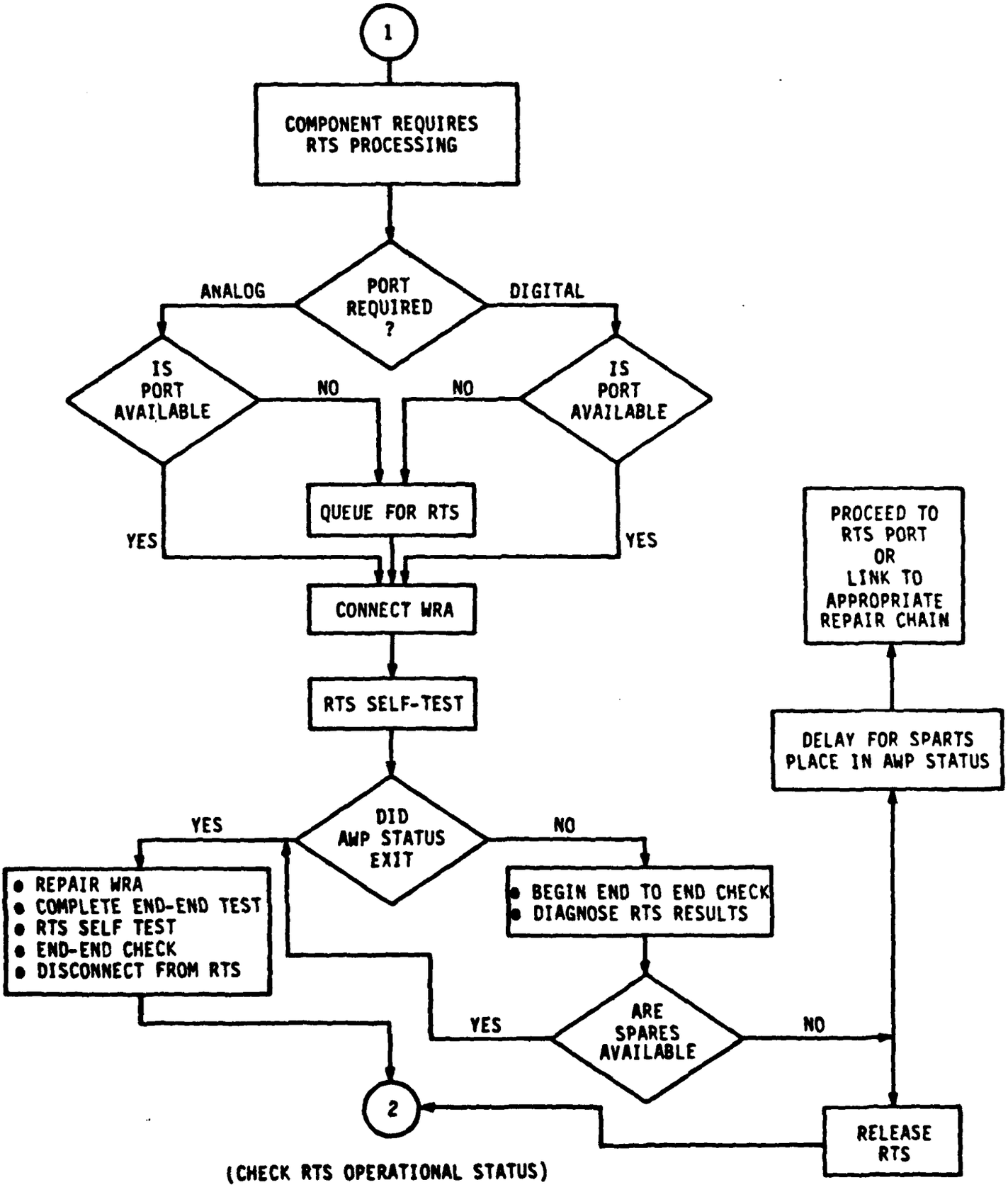


FIGURE 4 (CONTINUED)
LOGIC FLOW OF RTS OPERATIONAL STATUS

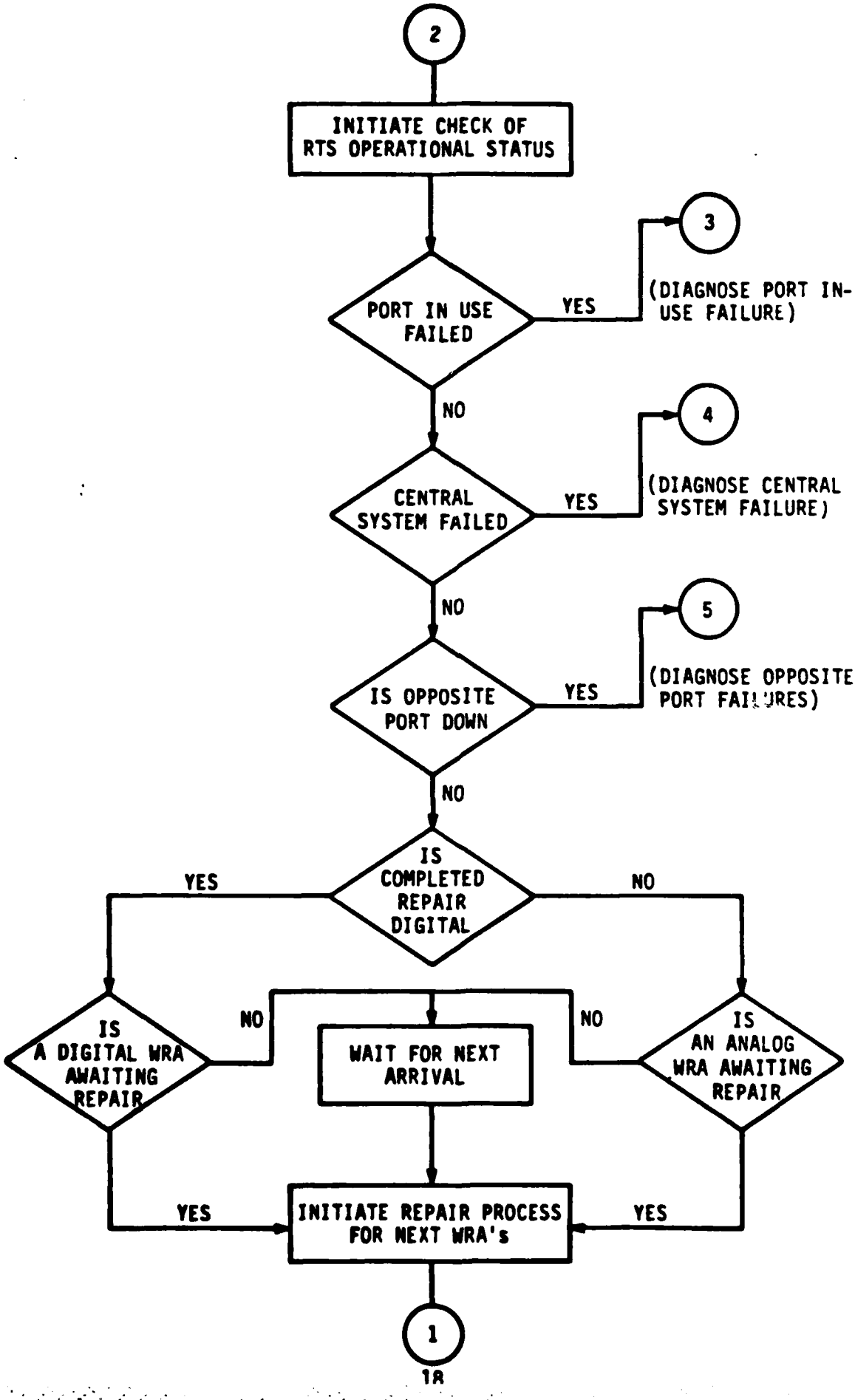


FIGURE 4 (CONTINUED)
LOGIC FLOW FOR FAILURE OF PORT IN USE

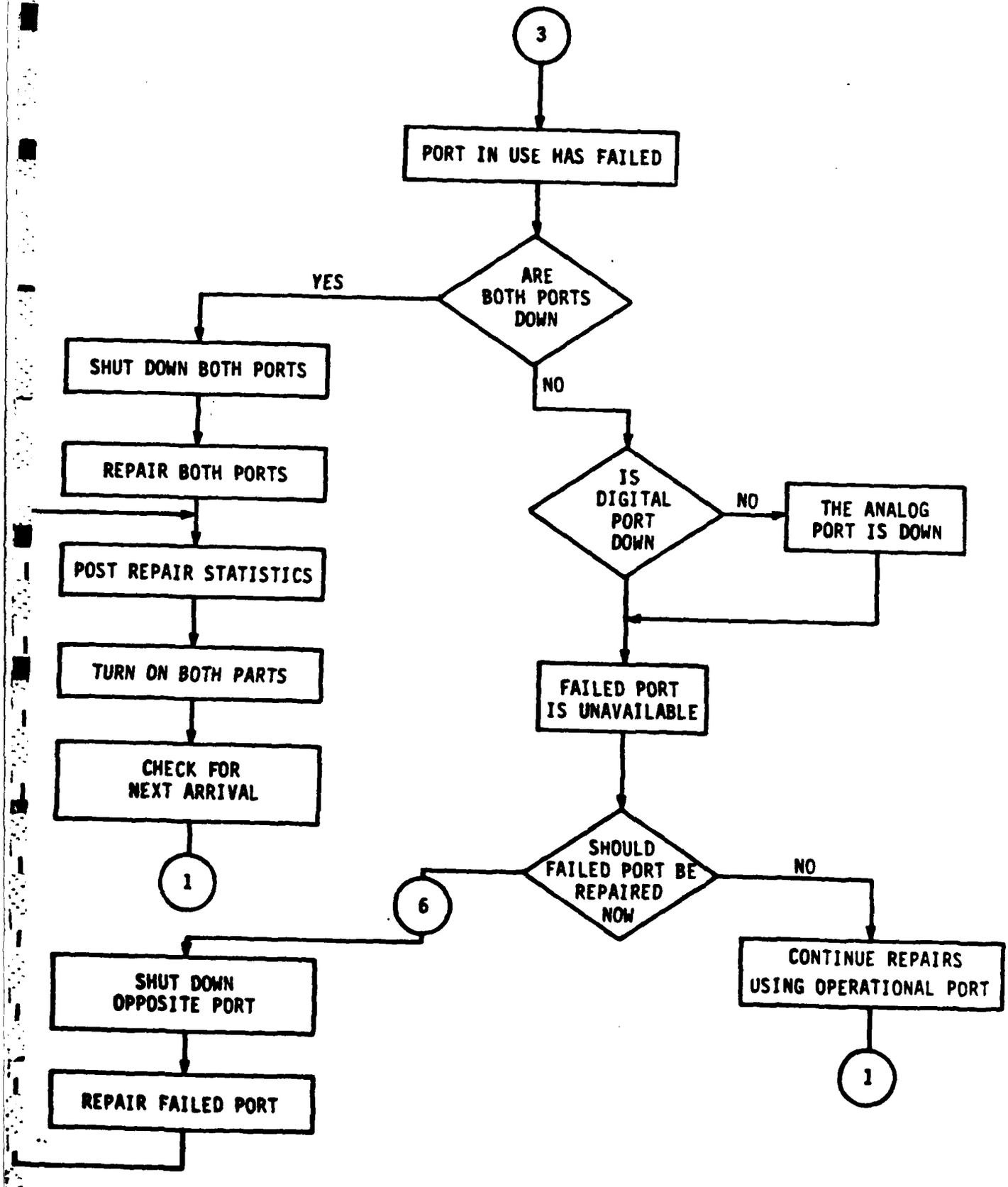


FIGURE 4 (CONTINUED)
LOGIC FLOW FOR FAILURE OF CENTRAL SYSYTEM

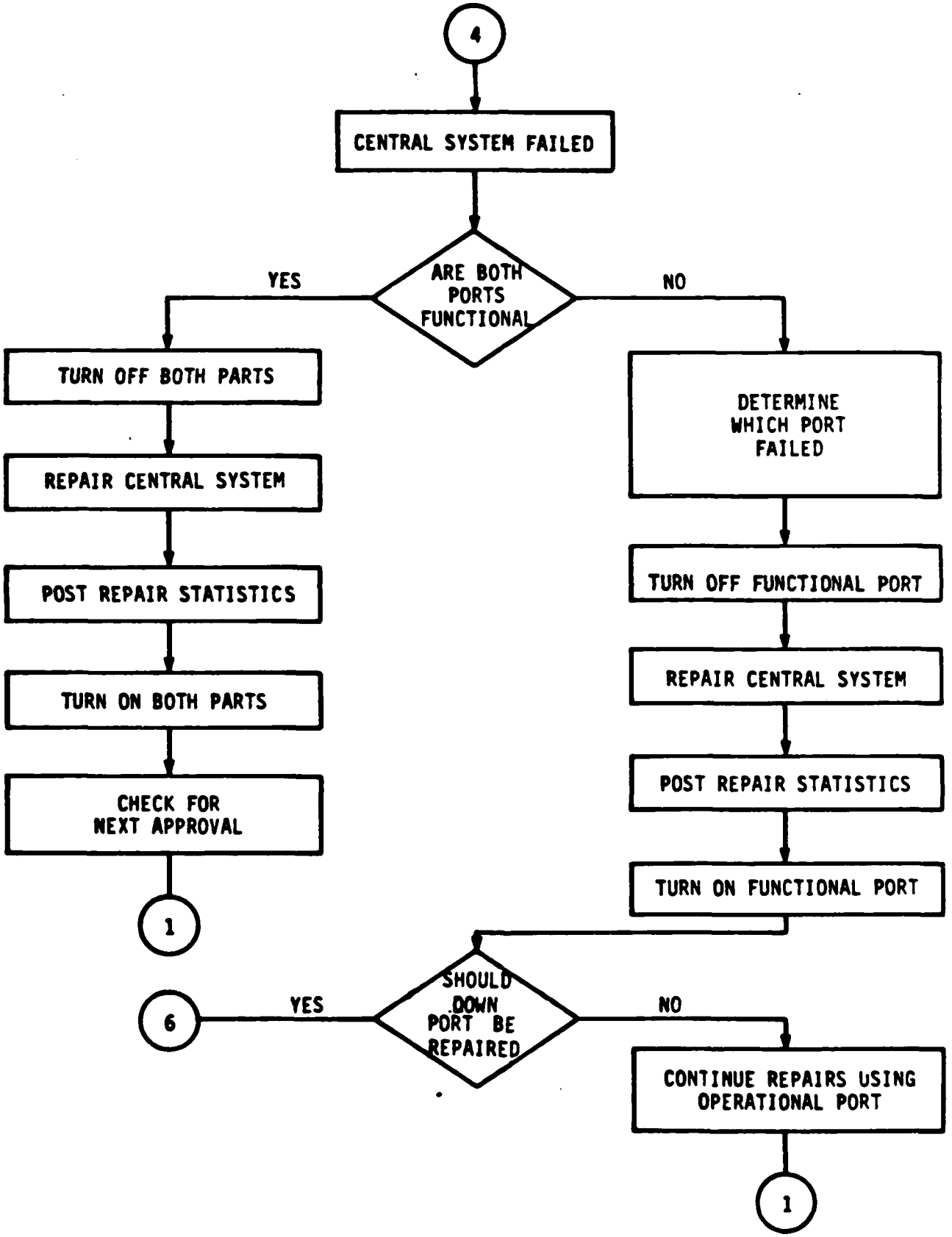
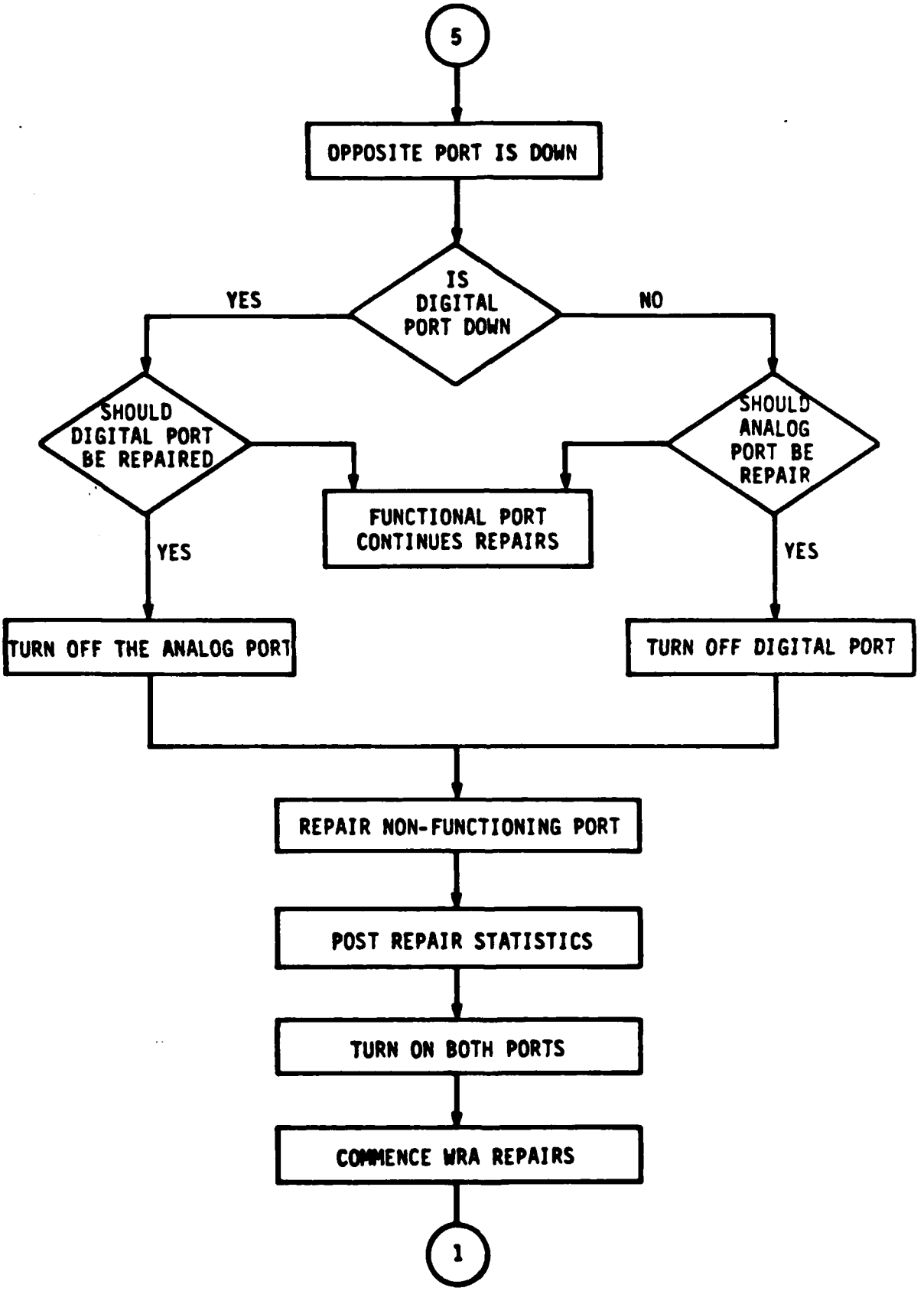


FIGURE 4 (CONTINUED)
LOGIC FLOW FOR OPPOSITE PORT BEING DOWN



gital items in need of repair to continue to queue. Discussions with fleet personnel revealed that numerous factors can have a direct bearing on this decision such as the number of expedited repairs (XREPS) or non-expedited repairs (NREPS) for either port, length of the queues for each port, availability of each port, etc. In order to reflect these decisions, several criteria were developed. A summary of these decisions criteria for different conditions are summarized in Table 3.

The operating concepts of the RTS includes a significant amount of time devoted to self-testing. Each time an end-to-end run-through of the testing cycle configured for a specific WRA is initiated, it is preceded by an internal validation check that consumes approximately 10 minutes of operating time. The normal test cycle for on-line repair, as described in RTS loading projections, consists of the following: connecting the assembly to the RTS and configuring the system, initiating the self-test and end-to-end run, diagnosing the failure identified by the run, repairing the failure, completing the end-to-end run to check for additional failures, repeating the self-test and end-to-end test to validate that the item is in fact repaired, and disconnecting the apparatus. These inputs are defined by the user prior to the simulation for each WRA that utilized the RTS.

Appendix B of this report contains the appropriate logic statements that must be introduced in the Update Deck of Version 5 Mod 2 to exercise the RTS.

TABLE 3

RTS REPAIR DECISION CRITERIA FOR ONE PORT DISABLED AND ONE PORT FUNCTIONAL

No.	Disabled Port Workload Status	Functional Port Workload Status	RTS Repair Decision
1.	XREPS in Queue	Repairing XREPS	Continue Operating Functional Port
2.	XREPS in Queue	Repairing NREPS or No Repairs in Queue	Shut Down RTS to Repair Disabled Port
3.	NREPS in Queue	Repairing XREPS	Continue Operating Functional Port
4.	NREPS in Queue	Repairing NREPS	Continue Operating Functional Port
5.	NREPS in Queue	No Repairs in Queue	Shut Down RTS to Repair Disabled Port
6.	No Repairs Are In-Process	Repairing XREPS or NREPS	Continue Operating Functional Port
7.	No Repairs are In-Process	No Repairs are in Process	Shut Down RTS and Repair Disabled Port

VERIFICATION

General

The need to provide the user community and other interested observers with the assurance that a simulation will accurately portray the "real world', is an ever present commitment that must be met by those engaged in simulation model development. In verification tasks involving the CASEE model enhancement to date, a consistent approach has been followed for several years. The two basic elements are functional logic checks and numerical validation as described below.

The basic approach to verification associated with periodic model updating recognizes that extensive functional logic checks would have already been accomplished prior to the current enhancement effort that is underway. Under these conditions, it remains to identify those functions on the original listing which are now being modified and to check the final listing to confirm that all needed changes have been accomplished to yield a new and acceptable logic, consistent with the operational environment to be simulated.

SCIR Enhancement Verification

To validate the SCIR Logic enhancement, analysis was first performed to develop SCIR related input data capable of exercising the CASEE logic. This initial analysis was performed on data obtained from 1981 A-7E operating squadrons. The A-7E aircraft has over 1400 maintenance significant WRAs.

The data was obtained from the 3-M system and was summarized at the 2-digit work unit code level. Two digit work unit code sensitivity is more than adequate for numerical validation of the SCIR logic enhancement. The data summarization is presented in Table 4. Table 4 presents the probabilities that reflect the logic changes due to the SCIR enhancement. Formulation of these probabilities is the first step in performing a numerical validation of the SCIR logic enhancement. The probabilities are X1000 and reflect the probability of an aircraft discrepancy receiving a subsystem EOC code as an A00 code for R/R maintenance actions and for RIP maintenance actions.

CASEE simulation runs using the defined inputs were conducted as part of the verification process. The values shown in Table 4 were compared to those generated by the CASEE model to ensure correct operation in simulating the proper proportions of SCIR-related discrepancies at the system and aircraft level. The results of this analysis are provided in Tables 5 and 6.

TABLE 4

A-7E SCIR-RELATED INPUT PROBABILITIES FOR SUBSYSTEM EOC WHEN RECEIVED AND A00 CODE WHEN RECEIVED - (X1000)

WUC	Remove & Replace Action		Repair In Place Action	
	P (EOC) Code	P (A00) Code	P (EOC) Code	P (A00) Code
11	540	134	046	009
12	561	189	104	026
13	736	123	241	037
14	819	193	272	035
23	817	090	211	050
29	732	167	279	057
41	395	123	187	040
42	787	129	346	054
44	678	252	206	046
45	811	095	330	031
46	502	089	252	028
47	621	111	206	020
49	780	097	246	041
51	770	147	407	047
56	834	200	379	062
57	843	177	437	067
63	801	192	364	074
64	884	134	375	081
65	786	201	398	071
67	833	383	300	063
71	856	146	434	077
72	814	203	463	092
73	872	184	496	086
74	780	219	333	072
75	298	090	092	020
76	775	289	313	075
77	636	-	280	050
91	286	079	109	191
96	333	-	200	-
97	549	175	182	025
Total	770	165	248	043

TABLE 5

COMPARISON OF SCIR DATA FOR R/R ACTIONS

	R/R Actions		SCIR Discrepancies		A00 Actions	
WUC	Expected	CASEE	Expected	CASEE	Expected	CASEE
11	22	23	12	10	3	3
12	13	13	7	9	2	2
13	173	162	129	117	21	23
14	43	35	35	21	8	14
23	27	21	22	17	2	2
29	25	22	19	16	5	4
41	40	36	16	14	5	8
42	41	37	32	30	5	4
44	20	26	14	15	5	9
45	18	20	15	16	2	3
46	39	23	15	10	3	3
47	5	3	3	2	1	0
49	3	3	3	1	1	1
51	113	119	86	80	17	14
56	2	1	1	1	0	0
57	57	53	49	41	10	13
63	118	118	94	94	22	28
64	3	1	8	8	2	0
65	17	27	14	21	4	6
67	7	9	6	9	3	0
71	159	147	136	125	23	25
72	40	45	33	36	8	4
73	422	410	366	360	78	63
74	33	31	25	31	7	4
75	63	63	19	22	5	5
76	62	59	48	48	17	17
77	0	0	0	0	0	0
91	4	6	1	3	0	0
96	0	0	0	0	0	0
97	0	0	0	0	0	0
TOTAL	1569	1513	1208	1157	259	255

TABLE 6

COMPARISON OF SCIR DATA FOR RIP ACTIONS

	RIP Actions		SCIR Discrepancies		A00 Actions	
WUC	Expected	CASEE	Expected	CASEE	Expected	CASEE
11	919	946	42	48	8	6
12	218	219	22	18	6	11
13	440	430	105	95	16	18
14	211	211	57	47	7	9
23	83	80	17	21	4	5
29	92	91	25	30	5	8
41	81	87	15	15	3	3
42	136	134	47	46	7	10
44	227	221	47	43	11	5
45	122	114	41	36	4	6
46	150	133	39	30	4	5
47	40	42	8	8	1	0
49	45	49	10	14	2	0
51	202	209	82	75	10	6
56	8	8	3	3	1	0
57	117	95	51	31	8	9
63	172	181	62	75	13	12
64	36	12	11	2	2	3
65	23	37	9	11	2	1
67	23	29	7	5	2	2
71	104	108	46	34	8	10
72	65	77	30	32	6	7
73	452	479	225	236	39	49
74	97	94	32	34	7	11
75	160	159	15	11	3	5
76	86	76	27	20	7	7
77	7	5	2	1	0	0
91	28	28	3	3	1	1
96	0	0	0	0	0	0
97	8	5	1	0	0	0
TOTAL	4352	4359	1081	1024	187	209

The results in Tables 5 and 6 indicate that the CASEE SCIR logic produces the correct frequency of SCIR discrepancies for both R/R actions and RIP actions. It is believed that this verification is the initial phase to a total verification of the CASEE SCIR logic to be implemented in the near future. The purpose of this effort was to ensure that the flow of events which directly impacts on aircraft mission capability status, such as frequency of downing discrepancies is acceptable. However, due to the complex nature of the SCIR system and the lack of a representative SCIR data base a total verification of the SCIR logic is not presently possible. A numerical validation of the logic to assess whether the model produces readiness-related parameters by making direct comparison with 3-M data is beyond the scope of this study. Such an effort however should and could be implemented in the near future. At that time, the model would have been thoroughly tested by the user community and a SCIR data base for a current fleet operating aircraft would be available for the purpose of such a verification. It is anticipated that the capability to generate such a data base for any fleet aircraft tailored to the newly created SCIR version would exist during the first quarter of calendar year 1983. Implementation of a total verification of the CASEE SCIR logic could be accomplished shortly thereafter.

Launch Scheduling Routing Verification

The verification of the CASEE non-cyclic launch scheduling routine consisted of conducting several selected simulation runs with the objective of checking appropriate segments of the CASEE logic. Since the CASEE enhancement in this area also resulted in logic changes to a significant portion of the original CASEE cyclic launch scheduling routine, a verification of both the cyclic and non-cyclic logic was required.

As mentioned earlier, the primary difference between the non-cyclic versus the cyclic launch options was the implementation of the launch window and the feasibility of scheduling sorties without regard to carrier launch and recovery cycle constraints. In view of this, the first verification proceeded to develop an operational scenario which can be properly defined in both options with the objective of comparing the results to determine whether similar results could be obtained. A series of runs using an A-7E flight scenario was defined for this purpose. These runs were performed using a launch window set to zero and with a schedule which launches two hour sorties every two hours. The CASEE results for this scenario as defined in the cyclic and non-cyclic versions were significantly alike, indicating that no unique problems or inconsistencies exist in the two launch routines.

In order to test the launch window in the non-cyclic option, a small program was developed and incorporated into the CASEE runs to conduct internal checks and track launch times of each sortie. An examination of three 6 month runs showed that the launch window was functioning properly and did generate rescheduled sorties within the launch window where possible. As support constraints were further defined within the model (such as spares and manpower) the model responded with a corresponding increase in the number of sorties which were launched during the launch window.

Support Equipment Enhancement Verification

The RTS flow logic verification was conducted by performing an extensive functional logic check to ensure that repair transactions are correctly processed by the program under anticipated conditions. A dummy data base consisting of the radar components was developed prior to exercising the model logic. Numerous simulation runs were then conducted under varying conditions such as reduced spares levels, RTS operational availability and aircraft utilization levels to ensure proper operation of the key decision blocks within the RTS logic. Results of the analysis concluded that the RTS logic was properly functioning.

SUMMARY

All of the enhancements developed under this contract have accomplished the desired results. The comparison of output parameters affected by the newly implemented SCIR logic, non-cyclic launch routine and SE modification has demonstrated that each of them is properly integrated into CASEE. Detailed comparison of simulation output with actual Navy experience were not conducted, but only because a data base of the desired type of operation could not be defined and is not readily available in 3-M using the same aircraft type. As a consequence, the model was run at length and monitored to ensure that proper decisions were made in the simulation at key steps in the model logic.

The other candidates for enhancement noted in the Recommendation section of this report should be given every consideration for development in the immediate future. These additional enhancements would encompass the adaptation of the CASEE Version 4 Mod Ø (V4MØ) model to track weapon system readiness using the SCIR logic and the introduction of an improved model execution routine which uses a cumulative WRA failure probability distribution to determine the failed WRA, thus reducing computer resources requirements and runs cost.

CONCLUSION

The versatility and efficiency of CASEE have been considerably enhanced by this effort. However, the additional enhancements identified in this report should be pursued at the earliest possible date.

RECOMMENDATIONS

It is recommended that additional enhancements be developed and incorporated into the model at the earliest possible date. It is believed that the improvements listed below will respond to requirements for enhancing the V/STOL version of CASEE, used earlier in SBA applications, to increase the operating efficiency and its utility for Navy project support.

a. Implementation of SCIR logic into Version 4 Mod Ø.

b. Enhancement of Version 4 Mod Ø model in the maintenance action generation routine to reduce runtime and execution cost.

c. The combining of CASEE with a large simulation model of the detailed operations at a typical IMA avionics shop to provide an interactive evaluation of IMA proposed concepts.

d. An in-depth validation of the SCIR logic to ensure the model produces readiness statistics representative of those experienced by current operational aircraft.

APPENDIX A

VERSION 5 MOD 2 SOURCE LISTING

```
   GPSS/H  VM/370 RELEASE 1.0 (AY142)      10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00000010      1                       REALLOCATE XAC,600
*12/10/82      2                       REALLOCATE HLD,2970
 00000030      3                       REALLOCATE FAC,0
 00000040      4                       REALLOCATE STO,95
 00000050      5                       REALLOCATE QUE,30
 00000060      6                       REALLOCATE LOG,95
 00000070      7                       REALLOCATE T48,5
 00000080      8                       REALLOCATE FUN,30
 00000090      9                       REALLOCATE VAR,130
 00000100     10                       REALLOCATE BVR,60
 00000110     11                       REALLOCATE FSV,35
 00000120     12                       REALLOCATE HSV,50
 00000130     13                       REALLOCATE BSV,55
 00000140     14                       REALLOCATE LSV,0
 00000150     15                       REALLOCATE CHA,50
 00000160     16                       REALLOCATE GRP,25
 00000170     17                       REALLOCATE FMS,15
 00000180     18                       REALLOCATE HMS,165
 00000190     19                       REALLOCATE BMS,5
 00000200     20                       REALLOCATE LMS,0
*12/10/82     21                       REALLOCATE COM,700000
*12/10/82     22                       SIMULATE   200S
 00000230     23                       SIMULATE
 00000250     24                  *
*12/10/82     25                       RMULT      1143567596,605983241,1098714356,579834218,74322_
*12/10/82     26                                  4679,359679123,253456987,978675645,46537896?,153654789
*12/10/82     27                  *               -1143567596,-605983241,-1098714356,-579834218,-74322_
*12/10/82     28                  *               4679,-359679123,-253456987,-978675645,-4653789_
*12/10/82     29                  *               67,-1536547897
 00000260     30                  *
 00000270     31                  *
 00000280     32                  *          ****************************************
 00000290     33                  *          *                                      *
 00000300     34                  *          *   C A S E E   S I M U L A T I O N    M O D E L   *
*12/10/82     35                  *          *   VERSION 5  MOD 2A          16 NOVEMBER 1982   *
 00000320     36                  *          *                                      *
 00000330     37                  *          *                PREPARED FOR          *
 00000340     38                  *          *    NAVAL AIR SYSTEMS COMMAND, CODE AIR-5143     *
 00000350     39                  *          *          DEPARTMENT OF THE NAVY          *
 00000360     40                  *          *                   BY                 *
 00000370     41                  *          *              NORDEN SYSTEMS          *
 00000380     42                  *          *        NORWALK, CONNECTICUT  06856   *
 00000390     43                  *          *                                      *
 00000400     44                  *          ****************************************
 00000410     45                  *
 00000420     46                  *                    CLOCK UNIT = 0.1 HOUR
 00000430     47                  *
 00000440     48                  *
 00000450     49                  ***************************************************************************
 00000460     50                  *                  ***** DESCRIPTION OF RUN *****
*12/10/82     51                  *     THIS UPDATE DECK ILLUSTRATES THE USE OF CASEE TO SIMULATE NON-
*12/10/82     52                  *     CYCLIC (E.G. LAND BASED) OPERATIONS.
*12/10/82     53                  *
*12/10/82     54                  ******   USE WITH CASEE VERSION 5 MOD 1  ***** AND USE WITH A7MXL182 **
*12/10/82     55                  *
*12/10/82     56                  * THIS RUN USES INPUT DATA DERIVED USING PROCESSED 3-M DATA COLLECTED ON
```

```
GPSS/H  V4/37. RELEASE 1.0 (AY192)       16 DEC 82  10:40:30    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

12/10/82     57                 * THE A-7E AIRCRAFT DURING A SIX MONTH PERIOD IN 1977.  A TOTAL OF 7
12/10/82     58                 * ATLANTIC FLEET SQUADRONS WERE USED TO GENERATE THE MATRIX LIBRARY.
12/10/82     59                 * PROCESSING OF THE MATRIX LIBRARY WAS ACCOMPLISHED BY NORDEN SYSTEMS.
12/10/82     60                 * THE MATRIX LIBRARY CONSISTS OF 141 SUBSYSTEMS AND ANY WHA HAVING AT
12/10/82     61                 * LEAST 2 MAINTENANCE ACTIONS GENERATED AGAINST IT DURING THE SIX-MONTH
12/10/82     62                 * TIME FRAME.
00000460     63                 ********************************************************************
00000490     64                 * NUMERICAL ASSIGNMENT OF SUBSYSTEM MATRICES
00000500     65                 *       UNLIST
12/10/82     66                  AAA00 EQU        21,MH
12/10/82     67                  AAB00 EQU        22,MH
12/10/82     68                  AAC00 EQU        23,MH
12/10/82     69                  AAD00 EQU        24,MH
12/10/82     70                  ABCB1 EQU        25,MH
12/10/82     71                  ABCB6 EQU        26,MH
12/10/82     72                  ABCDA EQU        27,MH
12/10/82     73                  ABCD8 EQU        28,MH
12/10/82     74                  ABCDC EQU        29,MH
12/10/82     75                  ABCD1 EQU        30,MH
12/10/82     76                  ABCD5 EQU        31,MH
12/10/82     77                  ABCD6 EQU        32,MH
12/10/82     78                  ABCD6 EQU        33,MH
12/10/82     79                  ABCD9 EQU        34,MH
12/10/82     80                  ABC0C EQU        35,MH
12/10/82     81                  ABC09 EQU        36,MH
12/10/82     82                  AB100 EQU        37,MH
12/10/82     83                  ADA0C EQU        38,MH
12/10/82     84                  ADB00 EQU        39,MH
12/10/82     85                  ADD0C EQU        40,MH
12/10/82     86                  ADE00 EQU        41,MH
12/10/82     87                  ADF0C EQU        42,MH
12/10/82     88                  ADG00 EQU        43,MH
12/10/82     89                  AD10C EQU        44,MH
12/10/82     90                  AEA00 EQU        45,MH
12/10/82     91                  AEA11 EQU        46,MH
12/10/82     92                  AEA12 EQU        47,MH
12/10/82     93                  AEA14 EQU        48,MH
12/10/82     94                  AEA15 EQU        49,MH
12/10/82     95                  AEA21 EQU        50,MH
12/10/82     96                  AEA23 EQU        51,MH
12/10/82     97                  AEFA1 EQU        52,MH
12/10/82     98                  AEF29 EQU        53,MH
12/10/82     99                  AEG0C EQU        54,MH
12/10/82    100                  AEG56 EQU        55,MH
12/10/82    101                  AEG57 EQU        56,MH
12/10/82    102                  AEG58 EQU        57,MH
12/10/82    103                  AEG59 EQU        58,MH
12/10/82    104                  AFCY1 EQU        59,MH
12/10/82    105                  AFCY2 EQU        60,MH
12/10/82    106                  AFC15 EQU        61,MH
12/10/82    107                  AFC15 EQU        62,MH
12/10/82    108                  AFC22 EQU        63,MH
12/10/82    109                  AFC31 EQU        64,MH
12/10/82    110                  AFC34 EQU        65,MH
12/10/82    111                  AFC42 EQU        66,MH
12/10/82    112                  AFC51 EQU        67,MH
```

LINE#	STMT#	IF	DO	&LUCK#	*LOC	OPERATION	A,B,C,D,E,F,G	COMMENTS
* 12/10/82	113				AFC54	EQU	69,MH	
* 12/10/82	114				AFC72	EQU	70,MH	
* 12/10/82	115				AFDR7	EQU	71,MH	
* 12/10/82	116				AFD23	EQU	72,MH	
* 12/10/82	117				AFDA1	EQU	73,MH	
* 12/10/82	118				AFD8C	EQU	74,MH	
* 12/10/82	119				AFEY1	EQU	75,MH	
* 12/10/82	120				AFEY2	EQU	76,MH	
* 12/10/82	121				AFE34	EQU	77,MH	
* 12/10/82	122				AFE41	EQU	78,MH	
* 12/10/82	123				AFE43	EQU	79,MH	
* 12/10/82	124				AFG23	EQU	80,MH	
* 12/10/82	125				AGAD1	EQU	81,MH	
* 12/10/82	126				AGAR7	EQU	82,MH	
* 12/10/82	127				AGAX1	EQU	83,MH	
* 12/10/82	128				AGA16	EQU	84,MH	
* 12/10/82	129				AGA18	EQU	85,MH	
* 12/10/82	130				AGA3C	EQU	86,MH	
* 12/10/82	131				AGA34	EQU	87,MH	
* 12/10/82	132				AGA41	EQU	88,MH	
* 12/10/82	133				AGA43	EQU	89,MH	
* 12/10/82	134				AGBR4	EQU	90,MH	
* 12/10/82	135				AGBY1	EQU	91,MH	
* 12/10/82	136				AGB28	EQU	92,MH	
* 12/10/82	137				AGB3C	EQU	93,MH	
* 12/10/82	138				AGB38	EQU	94,MH	
* 12/10/82	139				AGB39	EQU	95,MH	
* 12/10/82	140				AGCAS	EQU	96,MH	
* 12/10/82	141				AGCA1	EQU	97,MH	
* 12/10/82	142				AGCA2	EQU	98,MH	
* 12/10/82	143				AGCA3	EQU	99,MH	
* 12/10/82	144				AGCA4	EQU	100,MH	
* 12/10/82	145				AGCA5	EQU	101,MH	
* 12/10/82	146				AGCA6	EQU	102,MH	
* 12/10/82	147				AGCR5	EQU	103,MH	
* 12/10/82	148				AGCX1	EQU	104,MH	
* 12/10/82	149				AGC00	EQU	105,MH	
* 12/10/82	150				AGC11	EQU	106,MH	
* 12/10/82	151				AGC46	EQU	107,MH	
* 12/10/82	152				AGC5A	EQU	108,MH	
* 12/10/82	153				AGC51	EQU	109,MH	
* 12/10/82	154				AGDX1	EQU	110,MH	
* 12/10/82	155				AGDY1	EQU	111,MH	
* 12/10/82	156				AGDY4	EQU	112,MH	
* 12/10/82	157				AGD00	EQU	113,MH	
* 12/10/82	158				AGD55	EQU	114,MH	
* 12/10/82	159				AGD8A	EQU	115,MH	
* 12/10/82	160				AGD8E	EQU	116,MH	
* 12/10/82	161				AGD8H	EQU	117,MH	
* 12/10/82	162				AGD8K	EQU	118,MH	
* 12/10/82	163				AGD8M	EQU	119,MH	
* 12/10/82	164				AGD8O	EQU	120,MH	
* 12/10/82	165				AGD87	EQU	121,MH	
* 12/10/82	166				AGD8H	EQU	122,MH	
* 12/10/82	167				AGD89	EQU	123,MH	
* 12/10/82	168				AGEA6	EQU	124,MH	

```
GPSS/H  VM/370 RELEASE 1.0 (AY142)      15 DEC 82  10:40:04    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

12/10/82   169                AGEB2 EQU        124,MH
12/10/82   170                AGEM6 EQU        125,MH
12/10/82   171                AGEM1 EQU        126,MH
12/10/82   172                AGEM6 EQU        127,MH
12/10/82   173                AGEOO EQU        128,MH
12/10/82   174                AGE1B EQU        129,MH
12/10/82   175                AGE1M EQU        130,MH
12/10/82   176                AGE3B EQU        131,MH
12/10/82   177                AGE3O EQU        132,MH
12/10/82   178                AGE4B EQU        133,MH
12/10/82   179                AGE4C EQU        134,MH
12/10/82   180                AGE4G EQU        135,MH
12/10/82   181                AGE4O EQU        136,MH
12/10/82   182                AGE52 EQU        137,MH
12/10/82   183                AGE54 EQU        138,MH
12/10/82   184                AGE56 EQU        139,MH
12/10/82   185                AGE62 EQU        140,MH
12/10/82   186                AGE63 EQU        141,MH
12/10/82   187                AGE64 EQU        142,MH
12/10/82   188                AGFR6 EQU        143,MH
12/10/82   189                AGFX3 EQU        144,MH
12/10/82   190                AGF3L EQU        145,MH
12/10/82   191                AGF3W EQU        146,MH
12/10/82   192                AGF31 EQU        147,MH
12/10/82   193                AGF6M EQU        148,MH
12/10/82   194                AGF63 EQU        149,MH
12/10/82   195                AGF65 EQU        150,MH
12/10/82   196                AGF66 EQU        151,MH
12/10/82   197                AGF7L EQU        152,MH
12/10/82   198                AGFB1 EQU        153,MH
12/10/82   199                AGGA1 EQU        154,MH
12/10/82   200                AGGB1 EQU        155,MH
12/10/82   201                AGGB8 EQU        156,MH
12/10/82   202                AGGX1 EQU        157,MH
12/10/82   203                AGGB5 EQU        158,MH
12/10/82   204                AIADO EQU        159,MH
12/10/82   205                AIFOO EQU        160,MH
12/10/82   206                AIGOO EQU        161,MH
0000052O   207               * NUMERICAL ASSIGNMENT OF AIR PLAN MATRICES
0000053O   208               *      LIST
0000054O   209               *      UNLIST
0000055O   210                APL11 EQU        1,MB
12/10/82   211                APL1F EQU        2,MB
0000057O   212               ********************************************************************************
0000058O   213               * NUMERICAL ASSIGNMENT OF OTHER ENTITIES
0000059O   214               *      LIST
0000060O   215               *      UNLIST
0000061O   216                APLA1 EQU        1(1),L      AIR PLAN CONTROL SYNC (NON-CYCLIC OPS)
0000062O   217                CASE  EQU        1,X8        CASE NO. FOR STATISTICAL TESTING
0000063O   218                COMPL EQU        2,X8        A/C COMPLEMENT
0000064O   219                NEG1  EQU        3,X8        -1
0000065O   220                RTM3  EQU        1,XH        32767
0000066O   221                ORDL1 EQU        1,2,S       ORDNANCE LOAD - SQUADRON #1
0000067O   222                ORDC1 EQU        2,2,S       ORDNANCE RECONFIGURE - SQUADRON #1
0000068O   223                POST1 EQU        3,2,S       POSTFLIGHT INSPECTION - SQUADRON #1
0000069O   224                PREF1 EQU        4,2,S       PREFLIGHT INSPECTION - SQUADRON #1
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GPSS/H  V4/370 RELEASE 1.0 (AY142)      10 DEC 82  10140804    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00000700    225                TURN1  EQU        5,3,S       TURNAROUND INSPECTION - SQUADRON #1
00000710    226                DAIL1  EQU        6,3,S       DAILY INSPECTION - SQUADRON #1
00000720    227                SKED1  EQU        7,3,S       CALENDAR/PHASED INSPECTION - SQUADRON #1
00000730    228                UNSR1  EQU        8,3,S       UNSCHED. MAINTENANCE - SQUADRON #1
00000740    229                RAMM1  EQU        12,C,Q      REPAIRS AWM - SQUADRON #1
00000750    230                WAD11  EQU        12,S        WORK CENTER 110 - SQUADRON #1 - 1ST SHIFT
00000760    231                WA911  EQU        13,S        WORK CENTER 120 - SQUADRON #1 - 1ST SHIFT
00000770    232                AME11  EQU        14,S        WORK CENTER 130 - SQUADRON #1 - 1ST SHIFT
00000780    233                CHK11  EQU        15,S        WORK CENTER 140 - SQUADRON #1 - 1ST SHIFT
00000790    234                TGT11  EQU        16,S        WORK CENTER 150 - SQUADRON #1 - 1ST SHIFT
00000800    235                WAT11  EQU        17,S        WORK CENTER 210 - SQUADRON #1 - 1ST SHIFT
00000810    236                WAE11  EQU        18,S        WORK CENTER 220 - SQUADRON #1 - 1ST SHIFT
00000820    237                WAJ11  EQU        19,S        WORK CENTER 230 - SQUADRON #1 - 1ST SHIFT
00000830    238                PHD11  EQU        20,S        WORK CENTER 240 - SQUADRON #1 - 1ST SHIFT
00000840    239                WAQ11  EQU        21,S        WORK CENTER 250 - SQUADRON #1 - 1ST SHIFT
00000850    240                LIN11  EQU        22,S        WORK CENTER 300 - SQUADRON #1 - 1ST SHIFT
00000860    241                WAD12  EQU        26,S        WORK CENTER 110 - SQUADRON #1 - 2ND SHIFT
00000870    242                WA912  EQU        27,S        WORK CENTER 120 - SQUADRON #1 - 2ND SHIFT
00000880    243                AME12  EQU        28,S        WORK CENTER 130 - SQUADRON #1 - 2ND SHIFT
00000890    244                CHK12  EQU        29,S        WORK CENTER 140 - SQUADRON #1 - 2ND SHIFT
00000900    245                TGT12  EQU        30,S        WORK CENTER 150 - SQUADRON #1 - 2ND SHIFT
00000910    246                WAT12  EQU        31,S        WORK CENTER 210 - SQUADRON #1 - 2ND SHIFT
00000920    247                WAE12  EQU        32,S        WORK CENTER 220 - SQUADRON #1 - 2ND SHIFT
00000930    248                WAJ12  EQU        33,S        WORK CENTER 230 - SQUADRON #1 - 2ND SHIFT
00000940    249                PHD12  EQU        34,S        WORK CENTER 240 - SQUADRON #1 - 2ND SHIFT
00000950    250                WAQ12  EQU        35,S        WORK CENTER 250 - SQUADRON #1 - 2ND SHIFT
00000960    251                LIN12  EQU        36,S        WORK CENTER 300 - SQUADRON #1 - 2ND SHIFT
00000970    252                INFT1  EQU        40,S        IN FLIGHT - SQUADRON #1
00000980    253                HDMS1  EQU        41,S        HANGAR DECK MAINT. SPACES - SQUADRON #1
00000990    254                WAD1   EQU        15,G,Q      WORK CENTER 110 - SQUADRON #1
00001000    255                WAM1   EQU        16,G,Q      WORK CENTER 120 - SQUADRON #1
00001010    256                AME1   EQU        17,G,Q      WORK CENTER 130 - SQUADRON #1
00001020    257                CHK1   EQU        18,G,Q      WORK CENTER 140 - SQUADRON #1
00001030    258                TGT1   EQU        19,G,Q      WORK CENTER 150 - SQUADRON #1
00001040    259                WAT1   EQU        20,G,Q      WORK CENTER 210 - SQUADRON #1
00001050    260                WAE1   EQU        21,G,Q      WORK CENTER 220 - SQUADRON #1
00001060    261                WAD1   EQU        22,G,Q      WORK CENTER 230 - SQUADRON #1
00001070    262                PHD1   EQU        23,G,Q      WORK CENTER 240 - SQUADRON #1
00001080    263                WAQ1   EQU        24,G,Q      WORK CENTER 250 - SQUADRON #1
00001090    264                LIN1   EQU        25,G,Q      WORK CENTER 300 - SQUADRON #1
00001100    265                DSCR1  EQU        1,C,G       CURRENT DISCREPANCIES - SQUADRON #1
00001110    266                ACMA1  EQU        2,C,G       A/C IN MAINTENANCE - SQUADRON #1
00001120    267                ACNM1  EQU        5,C         A/C NOT IN MAINTENANCE - SQUADRON #1
00001130    268                LINQ1  EQU        6,C         AWAITING LINE INSPECTION - SQUADRON #1
00001140    269                RIWM1  EQU        7,C         REPAIRS IN WORK - SQUADRON #1
00001150    270                RAMP1  EQU        8,C         REPAIRS AMP - SQUADRON #1
00001160    271                RDFR1  EQU        9,C         DEFERRED REPAIRS - SQUADRON #1
00001170    272                DSCU1  EQU        10,C        UNRESOLVED DISCREPANCIES - SQUADRON #1
00001180    273                TYPE1  EQU        5,G         A/C TYPE - SQUADRON #1
00001190    274                SQDR1  EQU        6,G         A/C THIS SQUADRON - SQUADRON #1
00001200    275                RPAR1  EQU        7,G         REPAIRS - SQUADRON #1
00001210    276                OPC1   EQU        8,G         OPC A/C - SQUADRON #1
00001220    277                DSCF1  EQU        1,T         INFLIGHT DISCREPANCIES - SQUADRON #1
00001230    278                OPC11  EQU        2,T         OPC A/C AVAILABLE AT START OF FLYING DAY -
00001240    279                *                              SQUADRON #1
00001250    280                TNMC1  EQU        3,T         NMC TIME DISTRIBUTION - SQUADRON #1
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:34    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0001260   261                UNSQ1  EQU        4,T          UNSCHED. MAINT. QUEUE TIME - SQUADRON #1
0001270   262                MISX1  EQU        1,MX         MISSION MATRIX - SQUADRON #1
0001280   263                UTIL1  EQU        2,MX         A/C DISCREPANCY/UTILIZATION SUMMARY -
0001290   264                *                                  SQUADRON #1
0001300   265                WKCD1  EQU        3,MX         ORG. WORK CENTER STATISTICS - SQUADRON #1
0001310   266                AWMR1  EQU        4,MX         AWM REASON SUMMARY - SQUADRON #1
0001320   267                SYST1  EQU        5,MX         SYSTEM MATRIX - SQUADRON #1
0001330   268                MCAP1  EQU        6,MX         A/C SCIR MISSION CAPABILITY - SQUADRON #1
0001340   269                SCIM1  EQU        7,MX         SCIR IMPACT BY EQC - A/C TYPE #1
0001350   270                CFR14  EQU        8,MX         CUM. F.R. - A/C TYPE #1 - GROUND CREW
0001360   271                CFR15  EQU        9,MX         CUM. F.R. - A/C TYPE #1 - AIR CREW
0001370   272                CFR16  EQU        10,MX        CUM. F.R. - A/C TYPE #1 - DAILY
0001380   273                CFR17  EQU        11,MX        CUM. F.R. - A/C TYPE #1 - CALENDAR/PHASED
0001390   274                CFR19  EQU        12,MX        CUM. F.R. - A/C TYPE #1 - IN FLIGHT
0001400   275                OPS    EQU        1,MH         DAILY OPERATIONS MATRIX
0001410   276                LTIMC  EQU        3,MH         LAUNCH TIMES - CYCLIC OPS
0001420   277                PMM1   EQU        14,MH        A/C PREP. & INSP. MATRIX - SQUADRON #1
0001430   278                INEV1  EQU        15,MH        INSPECTIONS BY EVENT - SQUADRON #1
0001440   279                PHAS1  EQU        16,MH        PHASED INSPECTION DEFINITION - SQUADRON #
0001450   280               *CAL11  EQU        16,MH        CALENDAR INSP. DEFINITION - SQUADRON #1
0001460   281                LTIM1  EQU        19,MH        LAUNCH TIMES - NON-CYCLIC OPS - SQDRN. #1
0001470   282                *
0001480   283                ********************************************************************************
0001490   284                *       LIST
0001500   285                *       UNLIST
0001510   286                *
0001520   287                *            ***************************************************
0001530   288                *            *                                                 *
0001540   289                *            *          DESCRIPTION OF CASEE ENTITIES          *
0001550   290                *            *                                                 *
0001560   291                *            ***************************************************
0001570   292                *
0001580   293                ********************************************************************************
0001590   294                * MATRICES
0001600   295                ****** NOTE: ALL MATRICES ARE CASEE INPUTS UNLESS OTHERWISE INDICATED
0001610   296                ********************************************************************************
0001620   297                *
0001630   298                 EXEC  MATRIX     MH,12,1        EXECUTIVE CONTROL MATRIX
0001640   299                * ROW 1 = NUMBER OF SQUADRONS
0001650   300                * ROW 2 = MODEL OPERATIONAL CYCLE (DAYS)
0001660   301                * ROW 3 = MODEL OUTPUT CYCLE (DAYS)
0001670   302                *      IF UNDEFINED, NO INTERMEDIATE OUTPUT WILL BE PRODUCED
0001680   303                * ROW 4 = LAUNCH OPERATIONS MODE
0001690   304                *       1 = CYCLIC, E.G. CARRIER
0001700   305                *       2 = NON-CYCLIC, E.G. SHORE-BASED
0001710   306                * ROW 5 = MINIMUM RESUPPLY DELAY (DAYS)
0001720   307                * ROW 6 = AVERAGE RESUPPLY (DAYS)
0001730   308                * ROW 7 = NUMBER OF DIFFERENT AIRCRAFT TYPES BEING SIMULATED
0001740   309                * ROW 8 = NOT USED
0001750   310                ***** THE FOLLOWING TWO ROWS APPLY TO CYCLIC OPS ONLY
0001760   311                * ROW 9 = LEAD TIME (CLOCK UNITS) FROM START OF FLIGHT QUARTERS TO FIRST
0001770   312                *          LAUNCH OF THE DAY
0001780   313                * ROW 10 = TIME (CLOCK UNITS) FROM FINAL RECOVERY OF THE DAY TO END OF
0001790   314                *          FLIGHT QUARTERS
0001800   315                * ROW 11 = MINIMUM ORDER & SHIPPING TIME (DAYS) FOR CONDEMNED NCM ITEMS
0001810   316                * ROW 12 = AVERAGE ORDER & SHIPPING TIME (DAYS) FOR CONDEMNED NCM ITEMS
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GPSS/H  V4/370 RELEASE 1.0 (AY142)      10 DEC 82  10:40:04    FILE: A7ENCUPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00001820   337                  *
00001830   338                  *
00001840   339                  *
00001850   340                  *OPS   MATRIX     MH,NROWS,NCOLS          DAILY OPERATIONS MATRIX
00001860   341                  * NROWS = NUMBER OF SQUADRONS BEING SIMULATED + 11
00001870   342                  * NCOLS = MODEL OPERATIONAL CYCLE (DAYS)
00001880   343                  *
00001890   344                  *   NOTE:  ALL STARTING TIMES ARE EXPRESSED AS MILITARY TIME (E.G.
00001900   345                  *      NOON = 1200).  USE 2400 FOR MIDNIGHT.
00001910   346                  * ROW 1 = NUMBER OF DAILY SHIFTS - ORGANIZATIONAL
00001920   347                  * ROW 2 = FIRST (OR ONLY) SHIFT STARTING TIME - ORGANIZATIONAL
00001930   348                  * ROW 3 = FIRST (OR ONLY) SHIFT DURATION (CLOCK UNITS) - ORGANIZATIONAL
00001940   349                  * ROW 4 = SECOND SHIFT DURATION (CLOCK UNITS) - ORGANIZATIONAL
00001950   350                  * ROW 5 = SHIFT NUMBER IF ONLY ONE SHIFT - ORGANIZATIONAL
00001960   351                  *         NOTE: IF NOT = 2, FIRST SHIFT IS ASSUMED
00001970   352                  * ROW 6 = NUMBER OF DAILY SHIFTS - INTERMEDIATE
00001980   353                  * ROW 7 = FIRST SHIFT STARTING TIME - INTERMEDIATE
00001990   354                  * ROW 8 = FIRST SHIFT DURATION - INTERMEDIATE
00002000   355                  * ROW 9 = SECOND SHIFT DURATION - INTERMEDIATE
00002010   356                  *****  NOTE: THE FOLLOWING TWO ROWS APPLY TO CYCLIC OPS ONLY:
00002020   357                  * ROW 10 = DURATION (CLOCK UNITS) OF MAINTENANCE RESPOT QUARTERS FOR
00002030   358                  *      NON-FLYING DAYS.  IF ZERO NO MAINTENANCE RESPOT QUARTERS WILL BE
00002040   359                  *      SCHEDULED THAT DAY.
00002050   360                  * ROW 11 = LAUNCH EVENT NUMBER FOR CHECK FLIGHTS (TYPICALLY = 2)
00002060   361                  * ROW 12 = AIR PLAN - SQUADRON NO. 1
00002070   362                  * ROW 13 = AIR PLAN - SQUADRON NO. 2
00002080   363                  * ETC.
00002090   364                  *
00002100   365                  *
00002110   366                  *
00002120   367                  *COMPL MATRIX     MH,25,NCOLS        SQUADRON DEFINITION MATRIX
00002130   368                  * NCOLS = NUMBER OF SQUADRONS BEING SIMULATED
00002140   369                  *
00002150   370                  * ROW 1 = ORGANIZATIONAL UNIT IDENT.
00002160   371                  * ROW 2 = A/C TYPE
00002170   372                  * ROW 3 = NUMBER OF A/C
00002180   373                  * ROW 4 = MISSION SCHEDULING POLICY
00002190   374                  *         1 = OPC ONLY
00002200   375                  *         2 = PMC SELECTIVE
00002210   376                  *****  NOTE:  THE FOLLOWING ROW APPLIES TO CYCLIC OPS ONLY
00002220   377                  * ROW 5 = SLACK TIME REQUIREMENT (CLOCK UNITS) FOR IN-CYCLE FLIGHT DECK
00002230   378                  *         MAINTENANCE.  THIS IS THE TIME BEFORE THE NEXT LAUNCH BY WHICH
00002240   379                  *         REPAIR MUST BE COMPLETED IN ORDER TO MAKE THE LAUNCH. IF THIS
00002250   380                  *         ROW = 0, THE IN-CYCLE MAINTENANCE OPTION IS NOT OPERATIVE.
00002260   381                  * ROW 6 = CANNIBALIZATION POLICY
00002270   382                  *         0 = NO CANNIBALIZATION PERMITTED
00002280   383                  *       OTHERWISE CANNIBALIZE ONLY NMC A/C HAVING SCIR-REPATED AMP
00002290   384                  *       DISCREPANCIES NUMBERING AT LEAST THIS ROW ENTRY BUT NO MORE THAN
00002300   385                  *       THE ROW 7 ENTRY.
00002310   386                  * ROW 7 = MAXIMUM NUMBER OF ALLOWABLE SCIR-RELATED AMP DISCREPANCIES FOR
00002320   387                  *       CANNIBALIZATION VICTIM A/C
00002330   388                  *             NOTE: IF ROW 7 = 0, THE DEFAULT WILL BE NO UPPER LIMIT.
00002340   389                  * ROW 8 = CANNIBALIZATION SUSCEPTIBILITY OPTION FLAG
00002350   390                  *         (SEE COLUMN 40 OF SUBSYSTEM MATRICES)
00002360   391                  *         0 = NOT USING CANNIBALIZATION SUSCEPTIBILITY OPTION
00002370   392                  *         1 = USING CANNIBALIZATION SUSCEPTIBILITY OPTION
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       15 DEC 82  10:40:04    FILE: A7ENCUPS

  LINE#  STMT#  IF GO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00002380    393                 * ROW 9 = MAXIMUM NUMBER OF A/C PERMITTED SIMULTANEOUSLY IN SCHEDULED
00002390    394                 *       MAINTENANCE.  IF 0, NO LIMITATION.
00002400    395                 * ROW 10 = TIME (HOURS) UNTIL FIRST CALENDAR INSPECTION (APPLICABLE ONLY
00002410    396                 *      TO CALENDAR MAINTENANCE CONCEPT)
00002420    397                 * ROW 11 = MX INDEX - JKG. WORK CENTER STATISTICS (WKCU_)
00002430    398                 * ROW 12 = MH INDEX - INSPECTIONS BY EVENT (INEV_)
00002440    399                 * ROW 13 = MX INDEX - MISSION STATISTICS (MISX_)
00002450    400                 * ROW 14 = MX INDEX - A/C UTILIZATION SUMMARY (UTIL_)
00002460    401                 * ROW 15 = MX INDEX - AWM REASON SUMMARY
00002470    402                 ***** NOTE: THE FOLLOWING TWO ROWS APPLY TO CYCLIC OPS ONLY:
00002480    403                 * ROW 16 = AVERAGE RESPOT TIME (CLOCK UNITS)
00002490    404                 * ROW 17 = MINIMUM RESPOT TIME (CLOCK UNITS)
00002500    405                 * ROW 18 = MEAN SUPPLY RESPONSE TIME (CLOCK UNITS) - NORMAL MAINTENANCE
00002510    406                 * ROW 19 = MEAN SUPPLY RESPONSE TIME (CLOCK UNITS) - IN-CYCLE MAINT.
00002520    407                 *      (CYCLIC OPS ONLY)
00002530    408                 * ROW 20 = INITIALLY OUTFITTED SPARES SWITCH
00002540    409                 *       0 = INITIALLY OUTFITTED SPARES DETERMINED BY ROW 21 OF THIS
00002550    410                 *            MATRIX.
00002560    411                 *       1 = INITIALLY OUTFITTED SPARES ENTERED IN COLUMN 41 OF
00002570    412                 *            SUBSYSTEM MATRICES EITHER MANUALLY OR BY USER-FURNISHED
00002580    413                 *            LOADING PROGRAM.
00002590    414                 * ROW 21 = INITIALLY OUTFITTED SPARES PER WRA (ASSUMING SAME FOR
00002600    415                 *       EACH WRA - ROW 20=0)
00002610    416                 * ROW 22 = MX INDEX - SCIR MISSION CAPABILITY SUMMARY (MCAP_)
00002620    417                 * ROW 23 = MH INDEX - LAUNCH TIMES (LTIM_) - (NON-CYCLIC OPS ONLY)
00002630    418                 * ROW 24 = LEAD TIME (CLOCK UNITS) FROM A/C PREPARATION CALL TO SCHEDULE
00002640    419                 *      LAUNCH
00002650    420                 * ROW 25 = LEAD TIME (CLOCK UNITS) FROM DAILY INSPECTION CALL TO FIRST
00002660    421                 *       LAUNCH OF THE DAY
00002670    422                 *
00002680    423                 *
00002690    424                 *
00002700    425                 *TYPE  MATRIX     MH,41,NCOLS       A/C TYPE/MODEL/SERIES DEFINITION
00002710    426                 * NCOLS = NUMBER OF DIFFERENT T/M/S AIRCRAFT BEING SIMULATED
00002720    427                 *
00002730    428                 * ROW 1 = TOTAL NUMBER OF SUBSYSTEM MATRICES THIS A/C TYPE
00002740    429                 * ROW 2 = MX INDEX - SYSTEM (SYST_)
00002750    430                 * ROW 3 = MX INDEX - SCIR IMPACT SUMMARY BY EOC (SCIM_)
00002760    431                 * ROW 4 = MH INDEX - A/C PREPARATION & INSPECTION (PMH_)
00002770    432                 * ROW 5 = RUN-TIME MODIFIER FLAG (SEE MX$SYST_, COLS 14-21)
00002780    433                 *       0 = MODIFIER OPTION NOT OPERATIVE
00002790    434                 *       1 = OPTION OPERATIVE
00002800    435                 * ROW 6 = SCHEDULED MAINTENANCE CONCEPT
00002810    436                 *       1 = CALENDAR INSPECTION
00002820    437                 *       2 = PHASED INSPECTION
00002830    438                 * ROW 7 = MH INDEX - SCHEDULED INSPECTION (CALI_ OR PHAS_)
00002840    439                 ****** THE FOLLOWING TWO ROWS APPLY TO CALENDAR INSPECTION
00002850    440                 * ROW 8 = CALENDAR INSPECTION INTERVAL - WEEKS
00002860    441                 * ROW 9 = AVERAGE DURATION OF CALENDAR INSPECTION - HOURS
00002870    442                 ***** THE FOLLOWING THREE ROWS APPLY TO PHASED INSPECTION
00002880    443                 * ROW 10 = PHASED INSPECTION INTERVAL - FLIGHT HOURS
00002890    444                 * ROW 11 = PERCENT TOLERANCE IN PHASED INSPECTION INTERVAL
00002900    445                 * ROW 12 = NUMBER OF PHASES IN PHASED INSPECTION CYCLE
00002910    446                 * ROW 13 = DAILY INSPECTION NON-FLYING TIME LIMIT (HOURS)
00002920    447                 * ROW 14 = MX INDEX - CUMULATIVE MAINT. ACTION RATES - GROUND CREW
00002930    448                 *          INSPECTION
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GPSS/H  V4/370 RELEASE 1.5 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

  LINE#  STMT#  IF CO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00002940    449                 * ROW 15 = MX INDEX - CUMULATIVE MAINT. ACTION RATES - AIR CREW
00002950    450                 *          INSPECTION
00002960    451                 * ROW 16 = MX INDEX - CUMULATIVE MAINT. ACTION RATES - DAILY INSPECTION
00002970    452                 * ROW 17 = MX INDEX - CUMULATIVE MAINT. ACTION RATES - CALENDAR/PHASED
00002980    453                 *          INSPECTION
00002990    454                 * ROW 18 = MX INDEX - CUMULATIVE MAINT. ACTION RATES - IN FLIGHT
00003000    455                 * ROW 19 = AVERAGE DURATION (CLOCK UNITS) OF POST-MAINTENANCE CHECK
00003010    456                 *       FLIGHTS
00003020    457                 * ROW 20 = NUMBER OF PRIMARY MISSION TYPES THIS TMS A/C
00003030    458                 * ROWS 21-40 = EDC MISSION CODES FOR PRIMARY MISSION TYPES 1-20
00003040    459                 *       RESPECTIVELY
00003050    460                 *       EDC MISSION CODE       ENTRY
00003060    461                 *             A                  1
00003070    462                 *             B                  2
00003080    463                 *             C                  3
00003090    464                 *             D                  4
00003100    465                 *             E                  5
00003110    466                 *             F                  6
00003120    467                 *             G                  7
00003130    468                 *             H                  8
00003140    469                 *             J                 10
00003150    470                 *             K                 11
00003160    471                 *             L                 12
00003170    472                 * ROW 41 = TOTAL NUMBER OF VALID EDC'S (NOT INCLUDING Z83-Z93)
00003180    473                 *
00003190    474                 *
00003200    475                 *
00003210    476                 *GRP   MATRIX     MH,26,NCOLS       LOOKUP MATRIX - GROUPS
00003220    477                 * NCOLS = NUMBER OF SQUADRONS BEING SIMULATED
00003230    478                 *
00003240    479                 * ROW 1 = CURRENT DISCREPANCIES THIS SQUADRON
00003250    480                 * ROW 2 = A/C IN MAINTENANCE THIS SQUADRON
00003260    481                 * ROWS 3-5 = NOT USED
00003270    482                 * ROW 6 = A/C TYPE
00003280    483                 * ROW 7 = SQUADRON IDENT.
00003290    484                 * ROW 8 = CURRENT REPAIRS THIS SQUADRON
00003300    485                 * ROW 9 = UPC A/C THIS SQUADRON
00003310    486                 * ROWS 10-12 = NOT USED
00003320    487                 * ROW 13 = WORK CENTER 110 (AD) - POWER PLANT
00003330    488                 * ROW 14 = WORK CENTER 120 (AM) - AIRFRAME
00003340    489                 * ROW 15 = WORK CENTER 130 (AME) - AME/P.R.
00003350    490                 * ROW 16 = WORK CENTER 140 - CHECK CREW
00003360    491                 * ROW 17 = WORK CENTER 150 - TARGET
00003370    492                 * ROW 18 = WORK CENTER 210 (AT) - ELECTRONICS
00003380    493                 * ROW 19 = WORK CENTER 220 (AE) - ELECTRICAL
00003390    494                 * ROW 20 = WORK CENTER 230 (AO) - ORDNANCE
00003400    495                 * ROW 21 = WORK CENTER 240 - PHOTO/RECON
00003410    496                 * ROW 22 = WORK CENTER 250 (AQ) - FIRE CONTROL
00003420    497                 * ROW 23 = WORK CENTER 300 - LINE
00003430    498                 *
00003440    499                 *
00003450    500                 *
00003460    501                 *CHA   MATRIX     MH,15,NCOLS       LOOKUP MATRIX - USER CHAINS
00003470    502                 * NCOLS = NUMBER OF SQUADRONS BEING SIMULATED
00003480    503                 *
00003490    504                 * ROW 1 = CURRENT DISCREPANCIES THIS SQUADRON
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   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS
 00003500    505                    * ROW 2 = A/C IN MAINTENANCE
 00003510    506                    * ROWS 3-5 - NOT USED
 00003520    507                    * ROW 6 = A/C NOT IN MAINTENANCE
 00003530    508                    * ROW 7 - NOT USED
 00003540    509                    * ROW 8 = A/C AWAITING LINE INSPECTION
 00003550    510                    * ROW 9 = REPAIRS IN WORK
 00003560    511                    * ROW 10 = RLPAIRS AWP
 00003570    512                    * ROW 11 = DEFERRED RLPAIRS
 00003580    513                    * ROW 12 = RePAIRS AWM
 12/10/82    514                    * ROW 13 = UNRESOLVED DISCREPANCIES
 00003600    515                    *
 00003610    516                    *
 00003620    517                    *
 00003630    518                    *QUE   MATRIX     MH,29,NCOLS       LOOKUP MATRIX - QUEUES
 00003640    519                    * NCOLS = NUMBER OF SQUADRONS BEING SIMULATED
 00003650    520                    *
 00003660    521                    * ROW 1 = ORDNANCE LOAD
 00003670    522                    * ROW 2 = ORDNANCE CONFIGURATION
 00003680    523                    * ROW 3 = POSTFLIGHT INSPECTION
 00003690    524                    * ROW 4 = PREFLIGHT INSPECTION
 00003700    525                    * ROW 5 = TURNAROUND INSPECTION
 00003710    526                    * ROW 6 = DAILY INSPECTION
 00003720    527                    * ROW 7 = CALENDAR/PHASED INSPECTION
 00003730    528                    * ROW 8 = UNSCHEDULED MAINTENANCE
 00003740    529                    * ROWS 9-11 - NOT USED
 00003750    530                    * ROW 12 = REPAIRS AWAITING MAINTENANCE
 00003760    531                    * ROWS 13-15 - NOT USED
 00003770    532                    * ROW 16 = WORK CENTER 110 (AD) - POWER PLANT
 00003780    533                    * ROW 17 = WORK CENTER 120 (AM) - AIRFRAME
 00003790    534                    * ROW 18 = WORK CENTER 130 (AME) - AME/P.R.
 00003800    535                    * ROW 19 = WORK CENTER 140 - CHECK CREW
 00003810    536                    * ROW 20 = WORK CENTER 150 - TARGET
 00003820    537                    * ROW 21 = WORK CENTER 210 (AT) - ELECTRONICS
 00003830    538                    * ROW 22 = WORK CENTER 220 (AE) - ELECTRICAL
 00003840    539                    * ROW 23 = WORK CENTER 230 (AO) - ORDNANCE
 00003850    540                    * ROW 24 = WORK CENTER 240 - PHOTO/RECON
 00003860    541                    * ROW 25 = WORK CENTER 250 (AQ) - FIRE CONTROL
 00003870    542                    * ROW 26 = WORK CENTER 300 - LINE
 00003880    543                    *
 00003890    544                    *
 00003900    545                    *
 00003910    546                    *STO   MATRIX     MH,99,NCOLS       LOOKUP MATRIX - STORAGES
 00003920    547                    * NCOLS = NUMBER OF SQUADRONS BEING SIMULATED
 00003930    548                    *
 00003940    549                    * ROWS 1-8 SAME AS FOR MH$QUE
 00003950    550                    * ROW 12 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 110
 00003960    551                    * ROW 13 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 120
 00003970    552                    * ROW 14 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 130
 00003980    553                    * ROW 15 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 140
 00003990    554                    * ROW 16 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 150
 00004000    555                    * ROW 17 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 210
 00004010    556                    * ROW 18 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 220
 00004020    557                    * ROW 19 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 230
 00004030    558                    * ROW 20 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 240
 00004040    559                    * ROW 21 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 250
 00004050    560                    * ROW 22 = 1ST SHIFT MANPOWER (X1D) - WORK CENTER 300
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GPSS/H  V4/370 RELEASE 1.0 (AY142)      10 DEC 82  10:40:04    FILE: A7ENCOPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00004060   561                 * ROWS 23-25 - NOT USED
00004070   562                 * ROW 26 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 110
00004080   563                 * ROW 27 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 120
00004090   564                 * ROW 28 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 130
00004100   565                 * ROW 29 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 140
00004110   566                 * ROW 30 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 150
00004120   567                 * ROW 31 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 210
00004130   568                 * ROW 32 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 220
00004140   569                 * ROW 33 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 230
00004150   570                 * ROW 34 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 240
00004160   571                 * ROW 35 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 250
00004170   572                 * ROW 36 = 2ND SHIFT MANPOWER (X10) - WORK CENTER 300
00004180   573                 * ROWS 37-39 - NOT USED
00004190   574                 * ROW 40 = A/C IN FLIGHT
00004200   575                 * ROW 41 = HANGAR DECK MAINTENANCE SPACES THIS SQUADRON (CYCLIC OPS
00004210   576                 *      ONLY)
00004220   577                 *
00004230   578                 *
00004240   579                 *
00004250   580                 * TAB  MATRIX     MH,6,NCOLS        LOOKUP MATRIX - TABLES
00004260   581                 * NCOLS = NUMBER OF SQUADRONS BEING SIMULATED
00004270   582                 *
00004280   583                 * ROW 1 = INFLIGHT DISCREPANCY DISTRIBUTION
00004290   584                 * ROW 2 = UPC A/C AVAILABLE AT START OF FLYING DAY
00004300   585                 * ROW 3 = NMC TIME
00004310   586                 * ROW 4 = UNSCHEDULED MAINTENANCE QUEUE TIME
00004320   587                 *
00004330   588                 *
00004340   589                 *
00004350   590                 *APLMN MATRIX     MB,NROWS,30       DAILY AIR PLAN
00004360   591                 * M = SQUADRON I.D.
00004370   592                 * N = AIR PLAN I.D.  N MAY RANGE FROM 0 TO 9 AND THENCE FROM A TO Z,
00004380   593                 *   MAKING A MAXIMUM TOTAL OF 36 DIFFERENT AIR PLANS FOR EACH SQUADRON.
00004390   594                 *
00004400   595                 * NROWS = NUMBER OF LAUNCH EVENTS
00004410   596                 *
00004420   597                 * ROW 1 = DATA FOR LAUNCH EVENT NO. 1
00004430   598                 * ROW 2 = DATA FOR LAUNCH EVENT NO. 2
00004440   599                 * ETC.
00004450   600                 * COLS 1-5 = MISSION TYPE IN ORDER OF INCREASING PRIORITY
00004460   601                 * COLS 6-10 = MISSION DURATION ASSOCIATED WITH COLS 1-5 RESPECTIVELY
00004470   602                 *           IF POSITIVE NUMBER, DURATION IS IN CLOCK UNITS
00004480   603                 *                (USE FOR NON-CYCLIC OPS AND FOR THE LAST LAUNCH OF
00004490   604                 *                   THE DAY FOR CYCLIC OPS)
00004500   605                 *           IF NEGATIVE NUMBER = DURATION IS IN DECK CYCLES
00004510   606                 *                (USE ONLY FOR CYCLIC OPS FOR LAUNCHES OTHER THAN THE
00004520   607                 *                   LAST LAUNCH OF THE DAY)
00004530   608                 * COLS 11-15 = NUMBER OF ALERT A/C ASSOCIATED WITH COLS 1-5 RESPECTIVELY
00004540   609                 * COLS 16-20 = NUMBER OF STANDBY A/C ASSOCIATED WITH COLS 1-5
00004550   610                 *      RESPECTIVELY
00004560   611                 * COLS 21-25 = MINIMUM NUMBER OF A/C TO AVOID MISSION CANCELLATION
00004570   612                 *      ASSOCIATED WITH COLS 1-5 RESPECTIVELY
00004580   613                 * COLS 26-30 = LAUNCH WINDOW IN CLOCK UNITS ASSOCIATED WITH COLS 1-5
00004590   614                 *      RESPECTIVELY (USE FOR NON-CYCLIC OPS ONLY)
00004600   615                 *
00004610   616                 *
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   GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 92  10:40:04     FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00000620    617                 *LTIMC  MATRIX     MH,NROWS,NCOLS    LAUNCH TIMES - CYCLIC OPS
00000630    618                 * NROWS = MAXIMUM NUMBER OF DAILY LAUNCH EVENTS + 1
00000640    619                 * NCOLS = MODEL OPERATIONAL CYCLE (DAYS)
00000650    620                 *
00000660    621                 * ROW 1 = TOTAL LAUNCH EVENTS THIS DAY
00000670    622                 *****  NOTE:  ALL LAUNCH TIMES ARE EXPRESSED AS MILITARY TIME (E.G.
00000680    623                 *       NOON = 1200).
00000690    624                 ***** ALSO NOTE:  USE 2400 FOR MIDNIGHT.  IF THE FLYING DAY EXTENDS PAST
00000700    625                 *       MIDNIGHT, ADD 2400 TO TIMES OF POST-MIDNIGHT LAUNCHES (E.G. 0130
00000710    626                 *       = 2530).
00000720    627                 * ROW 2 = TIME OF DAY OF LAUNCH EVENT NO. 1
00000730    628                 * ROW 3 = TIME OF DAY OF LAUNCH EVENT NO. 2
00000740    629                 * ROW 4 = TIME OF DAY OF LAUNCH EVENT NO. 3
00000750    630                 * ETC.
00000760    631                 *
00000770    632                 *
00000780    633                 *
00000790    634                 *LTIM_  MATRIX     MH,NROWS,NCOLS    LAUNCH TIMES BY SQUADRON -
00000800    635                 *                                    NON-CYCLIC OPS
00000810    636                 *
00000820    637                 * FORMAT SAME AS FOR MHSLTIMC
00000830    638                 *
00000840    639                 *
00000850    640                 *
00000860    641                 *PMH_   MATRIX     MH,NROWS,3        A/C PREPARATION & INSPECTION
00000870    642                 * NROWS = NUMBER OF PRIMARY MISSION TYPES + 5 THIS A/C TYPE
00000880    643                 *
00000890    644                 * COL 1 = WORK CENTER
00000900    645                 * COL 2 = MANPOWER (X10) REQUIRED
00000910    646                 * COL 3 = AVERAGE EMT REQUIRED
00000920    647                 *
00000930    648                 * ROW 1 = GROUND CREW (PREFLIGHT)
00000940    649                 * ROW 2 = AIR CREW INSPECTION
00000950    650                 * ROW 3 = GROUND CREW (TURNAROUND)
00000960    651                 * ROW 4 = DAILY INSPECTION
00000970    652                 * ROW 5 = CALENDAR INSPECTION
00000980    653                 * ROW 6 = ORDNANCE LOAD - MISSION TYPE #1
00000990    654                 * ROW 7 = ORDNANCE LOAD - MISSION TYPE #2
00005000    655                 *    ETC
00005010    656                 *
00005020    657                 *
00005030    658                 *
00005040    659                 *INEV_  MATRIX     MH,9,2            INSPECTIONS & PREPARATIONS BY EVENT
00005050    660                 * COL 1 = PRIORITY FOR LINE INSPECTION (DAILY, PREFLIGHT, TURNAROUND)
00005060    661                 *        1 = HIGHEST, 3 = LOWEST
00005070    662                 * COL 2 = NUMBER OF TIMES THIS TYPE EVENT OCCURRED (OUTPUT)
00005080    663                 *
00005090    664                 * ROW 1 = LOAD ORDNANCE
00005100    665                 * ROW 2 = GROUND CREW INSPECTION (PREFLIGHT)
00005110    666                 * ROW 3 = AIRCREW INSPECTION
00005120    667                 * ROW 4 = GROUND CREW INSPECTION (TURNAROUND)
00005130    668                 * ROW 5 = DAILY INSPECTION
00005140    669                 * ROW 6 = CALENDAR/PHASED INSPECTION
00005150    670                 * ROW 7 = RECONFIGURE ORDNANCE (SUBSET OF ROW 1)
00005160    671                 * ROW 8 = UNSCHEDULED MAINTENANCE (EXCLUDING CANNIBALIZATION)
00005170    672                 * ROW 9 = CANNIBALIZATION
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GPSS/H  V4/370 RELEASE 1.0 (AY162)       10 DEC 92  10:40:04    FILE: A7ENCUPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00005180   673                  *
00005190   674                  *
00005200   675                  *
00005210   676                  *CALL_ MATRIX     MH,11,3          CALENDAR INSPECTION
00005220   677                  * COL 1 = WORK CENTER I.D.
00005230   678                  * COL 2 = MANPOWER REQUIRED (X10)
00005240   679                  * COL 3 = AVERAGE EMT (CLOCK UNITS)
00005250   680                  *
00005260   681                  *
00005270   682                  *
00005280   683                  *PHAS_ MATRIX     MH,14,21    PHASED INSPECTION DEFINITION
00005290   684                  * ROW 1-11, COL 1 = ORGANIZATIONAL WORK CENTER I.D.
00005300   685                  * ROW 1-11, COL 2-11 = AVERAGE MANPOWER (X10) FOR PHASES 1-10
00005310   686                  *       RESPECTIVELY
00005320   687                  * ROW 1-11, COL 12-21 = AVERAGE EMT (CLOCK UNITS) FOR PHASES 1-10
00005330   688                  *       RESPECTIVELY
00005340   689                  * ROW 12, COL 2-11 = MINIMUM A/C INSPECTION TIME (CLOCK UNITS) FOR
00005350   690                  *       PHASES 1-10 RESPECTIVELY
00005360   691                  * ROW 13 - NOT USED
00005370   692                  * ROW 14, COL 2-11 = CHECK FLIGHT REQUIREMENT FOR PHASES 1-10
00005380   693                  *       RESPECTIVELY.  (1 = CHECK FLIGHT REQUIRED THIS PHASE)
00005390   694                  *
00005400   695                  *
00005410   696                  *
00005420   697                  *MISX_ MATRIX     MX,21,NCOLS      MISSION STATISTICS (OUTPUT)
00005430   698                  * NCOLS = NUMBER OF PRIMARY MISSION TYPES + 2 THIS A/C TYPE
00005440   699                  *
00005450   700                  * COLS = PRIMARY MISSION TYPES, NEXT TO LAST COL = CHECK FLIGHT
00005460   701                  * LAST COL = TOTALS
00005470   702                  *
00005480   703                  * ROW 1 = NUMBER OF MISSIONS CALLED
00005490   704                  * ROW 2 = NUMBER OF TIMES MISSION REQUIREMENTS NOT MET
00005500   705                  * ROW 3 = NUMBER OF TIMES NO A/C AVAILABLE WHEN CALLED
00005510   706                  * ROW 4 = NUMBER OF SORTIES CALLED
00005520   707                  * ROW 5 = NUMBER OF A/C MISSION CAPABLE WHEN CALLED
00005530   708                  * ROW 6 = NUMBER OF SORTIES LAUNCHED
00005540   709                  * ROW 7 = NUMBER OF SORTIES COMPLETED WITHOUT INFLIGHT MAINT. ACTIONS
00005550   710                  * ROW 8 = TOTAL FLYING TIME
00005560   711                  * ROW 9 = TIMES NO STANDBY A/C AVAILABLE WHEN CALLED
00005570   712                  * ROW 10 = MISSIONS FLOWN WITH REDUCED NUMBER OF A/C
00005580   713                  * ROW 11 = NUMBER OF SORTIES FLOWN BY STANDBY A/C
00005590   714                  * ROW 12 = MISSIONS CANCELLED - INSUFFICIENT A/C AVAILABLE
00005600   715                  * ROW 13 = NUMBER OF GROUND ABORTS
00005610   716                  * ROW 14 = NUMBER OF AIR ABORTS
00005620   717                  * ROW 15 = NUMBER OF A/C UPC AT RECOVERY
00005630   718                  * ROW 16 = NUMBER OF A/C FMC AT RECOVERY
00005640   719                  * ROW 17 = NUMBER OF A/C PMC AT RECOVERY
00005650   720                  * ROW 18 = NUMBER OF A/C NMC AT RECOVERY
00005660   721                  * ROW 19 = NUMBER OF A/C UPC AT LAUNCH
00005670   722                  ***** THE FOLLOWING TWO ROWS APPLY ONLY TO NON-CYCLIC OPS
00005680   723                  * ROW 20 = NUMBER OF DELAYED LAUNCH EVENTS
00005690   724                  * ROW 21 = NUMBER OF MISSIONS CANCELLED DUE TO EXPIRATION OF LAUNCH
00005700   725                  *       WINDOW
00005710   726                  *
00005720   727                  *
00005730   728                  *
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GPSS/H  VM/37  RELEASE 1.5 (AY192)       10 DEC 92  10:40:30    FILE: A7ENCOPS

LINE#  STMT#  IF  DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00005740   729                 *UTIL_ MATRIX     MX,NROWS,13       A/C UTILIZTION SUMMARY (OUTPUT)
00005750   730                 * NROWS = NUMBER OF A/C + 1 THIS ORG. UNIT
00005760   731                 *
00005770   732                 * ROWS = INDIVIDUAL A/C
00005780   733                 * LAST ROW = TOTALS
00005790   734                 *
00005800   735                 * COL 1 = A/C TAIL NUMBER
00005810   736                 * COL 2 = PMCM TIME
00005820   737                 * COL 3 = PMCS TIME
00005830   738                 * COL 4 = PMCM TIME
00005840   739                 * COL 5 = PMCS TIME
00005850   740                 * COL 6 = NMCM (SCH) TIME
00005860   741                 * COL 7 = NMCM (UNSCH) TIME
00005870   742                 * COL 8 = NMCS TIME
00005880   743                 * COL 9 = BTS TIME
00005890   744                 * COL 10 = FLIGHT TIME
00005900   745                 * COL 11 = NUMBER OF FLIGHTS
00005910   746                 * COL 12 = SCIR TIME - MAINTENANCE
00005920   747                 * COL 13 = SCIR TIME - SUPPLY
00005930   748                 *
00005940   749                 *
00005950   750                 *
00005960   751                 *MCAP_ MATRIX     MX,NROWS,13       MISSION CAPABILITY SUMMARY (OUTPUT)
00005970   752                 * NROWS = NUMBER OF A/C + 1 THIS SQUADRON
00005980   753                 * LAST ROW = TOTALS
00005990   754                 *
00006000   755                 * COL 1 = A/C TAIL NUMBER
00006010   756                 * COL 2 = MISSION CAPABILITY TIME = MISSION CODE B
00006020   757                 * COL 3 = MISSION CAPABILITY TIME = MISSION CODE C
00006030   758                 * COL 4 = MISSION CAPABILITY TIME = MISSION CODE D
00006040   759                 * COL 5 = MISSION CAPABILITY TIME = MISSION CODE E
00006050   760                 * COL 6 = MISSION CAPABILITY TIME = MISSION CODE F
00006060   761                 * COL 7 = MISSION CAPABILITY TIME = MISSION CODE G
00006070   762                 * COL 8 = MISSION CAPABILITY TIME = MISSION CODE H
00006080   763                 * COL 9 = MISSION CAPABILITY TIME = MISSION CODE J
00006090   764                 * COL 10 = MISSION CAPABILITY TIME = MISSION CODE K
00006100   765                 * COL 11 = MISSION CAPABILITY TIME = MISSION CODE L
00006110   766                 * COL 12 = MISSION CAPABILITY TIME = MISSION CODE Z
00006120   767                 * COL 13 = CURRENT MISSION CAPABILITY
00006130   768                 *
00006140   769                 *
00006150   770                 *
00006160   771                 *AMMR_ MATRIX     MX,NROWS,41       A/C AMM REASON SUMMARY (OUTPUT)
00006170   772                 * NROWS = NUMBER OF A/C + 1 THIS SQUADRON
00006180   773                 *
00006190   774                 * ROWS = INDIVIDUAL A/C
00006200   775                 * LAST ROW = TOTALS
00006210   776                 *
00006220   777                 * COL 1 = A/C TAIL NUMBER
00006230   778                 * COL 2 = NMCMS/AMM-1 (GSE)
00006240   779                 * COL 3 = NMCMS/AMM-2 (SPARES/FACILITIES)
00006250   780                 * COL 4 = NMCMS/AMM-3 (BACKLOG)
00006260   781                 * COL 5 = NMCMS/AMM-4 (OFF-SHIFT HOURS)
00006270   782                 * COL 6 = NMCMS/AMM-5 (OTH R)
00006280   783                 * COL 7 = NMCMS/AMM-6 (AWAITING AIMD MAINTENANCE)
00006290   784                 * COL 8 = NMCMS/AMM-7 (FLIGHT OPERATIONS/OPERATIONAL UTILIZATION)
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GPSS/H  V4/370 RELEASE 1.3 (AY142)       15 DEC 82  10:40:08.74    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00006300   765                    * COL 9 = NMCMS/AWM-9 (AWAITING OTHER SHOPS OR MAINTENANCE ACTIONS)
00006310   766                    * COL 10 = NMCMS/AWM-0 (COMPUTER GENERATED)
00006320   767                    * COL 11 = TOTAL NMCMS ELAPSED TIME
00006330   768                    * COL 12 = NMCMU/AWM-1 (GSE)
00006340   769                    * COL 13 = NMCMU/AWM-2 (SPACES/FACILITIES)
00006350   770                    * COL 14 = NMCMU/AWM-3 (BACKLOG)
00006360   771                    * COL 15 = NMCMU/AWM-4 (OFF-SHIFT HOURS)
00006370   772                    * COL 16 = NMCMU/AWM-5 (OTHER)
00006380   773                    * COL 17 = NMCMU/AWM-6 (AWAITING AIMD MAINTENANCE)
00006390   774                    * COL 18 = NMCMU/AWM-7 (FLIGHT OPERATIONS/OPERATIONAL UTILIZATION)
00006400   775                    * COL 19 = NMCMU/AWM-8 (AWAITING OTHER SHOPS OR MAINTENANCE ACTIONS)
00006410   776                    * COL 20 = NMCMU/AWM-0 (COMPUTER GENERATED)
00006420   777                    * COL 21 = TOTAL NMCMU ELAPSED TIME
00006430   778                    * COL 22 = PMCM/AWM-1 (GSE)
00006440   779                    * COL 23 = PMCM/AWM-2 (SPACES/FACILITIES)
00006450   780                    * COL 24 = PMCM/AWM-3 (BACKLOG)
00006460   781                    * COL 25 = PMCM/AWM-4 (OFF-SHIFT HOURS)
00006470   782                    * COL 26 = PMCM/AWM-5 (OTHER)
00006480   783                    * COL 27 = PMCM/AWM-6 (AWAITING AIMD MAINTENANCE)
00006490   784                    * COL 28 = PMCM/AWM-7 (FLIGHT OPERATIONS/OPERATIONAL UTILIZATION)
00006500   785                    * COL 29 = PMCM/AWM-8 (AWAITING OTHER SHOPS OR MAINTENANCE ACTIONS)
00006510   786                    * COL 30 = PMCM/AWM-0 (COMPUTER GENERATED)
00006520   787                    * COL 31 = TOTAL PMCM ELAPSED TIME
00006530   788                    * COL 32 = FMCM/AWM-1 (GSE)
00006540   789                    * COL 33 = FMCM/AWM-2 (SPACES/FACILITIES)
00006550   790                    * COL 34 = FMCM/AWM-3 (BACKLOG)
00006560   791                    * COL 35 = FMCM/AWM-4 (OFF-SHIFT HOURS)
00006570   792                    * COL 36 = FMCM/AWM-5 (OTHER)
00006580   793                    * COL 37 = FMCM/AWM-6 (AWAITING AIMD MAINTENANCE)
00006590   794                    * COL 38 = FMCM/AWM-7 (FLIGHT OPERATIONS/OPERATIONAL UTILIZATION)
00006600   795                    * COL 39 = FMCM/AWM-8 (AWAITING OTHER SHOPS OR MAINTENANCE ACTIONS)
00006610   796                    * COL 40 = FMCM/AWM-0 (COMPUTER GENERATED)
00006620   797                    * COL 41 = TOTAL FMCM ELAPSED TIME
00006630   798                    *
00006640   799                    *
00006650   800                    *
00006660   801                    *WRCD_ MATRIX     MX,17,23          ORG. WORK CENTER STATISTICS (OUTPUT)
00006670   802                    ***** NOTE: DOES NOT INCLUDE ITEMS CURRENTLY IN PROCESS
00006680   803                    * ROWS 1-16 = INDIVIDUAL WORK CENTERS
00006690   804                    * ROW 17 = TOTALS
00006700   805                    *
00006710   806                    * COL 1 = WORK CENTER I.D.
00006720   807                    * COLS 2-3 NOT USED
00006730   808                    * COL 4 = UNSCHED. MAINT. ACTIONS (EXCLUDING CANNIBALIZATION REMOVALS)
00006740   809                    * COL 5 = CANNIBALIZATION REMOVALS
00006750   810                    * COL 6 = TOTAL UNSCHEDULED MAINTENANCE ACTIONS
00006760   811                    * COL 7 = SUPPORT ACTIONS, OPERATIONAL
00006770   812                    * COL 8 = SUPPORT ACTIONS, INSPECTION
00006780   813                    * COL 9 = SUPPORT ACTIONS, OTHER
00006790   814                    * COL 10 = TOTAL SUPPORT ACTIONS
00006800   815                    * COL 11 = CALENDAR OR PHASED INSPECTIONS
00006810   816                    * COL 12 = NOT USED
00006820   817                    * COL 13 = TOTAL ITEMS PROCESSED
00006830   818                    * COL 14 = DIRECT MMH (A10) - UNSCHED MAINT. (EXCLUDING
00006840   819                    *              CANNIBALIZATIONAL REMOVALS)
00006850   820                    * COL 15 = DIRECT MMH (A10) - CANNIBALIZATION REMOVALS
```

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GPSS/H  VM/37: RELEASE 1.6 (AV162)       16 DEC 82  10:40:34    FILE: A72ENCUPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00006860    841                 * COL 16 = DIRECT MMH (X10) - TOTAL UNSCHEDULED MAINTENANCE
00006870    842                 * COL 17 = DIRECT MMH (X10) - SUPPORT ACTIONS, OPERATIONAL
00006880    843                 * COL 18 = DIRECT MMH (X10) - SUPPORT ACTIONS, INSPECTION
00006890    844                 * COL 19 = DIRECT MMH (X10) - SUPPORT ACTIONS, OTHER
00006900    845                 * COL 20 = DIRECT MMH (X10) - TOTAL SUPPORT ACTIONS
00006910    846                 * COL 21 = DIRECT MMH (X10) - CALENDAR OR PHASED INSPECTIONS
00006920    847                 * COL 22 = NOT USED
00006930    848                 * COL 23 = TOTAL DIRECT MMH (X10)
00006940    849                 *
00006950    850                 *
00006960    851                 *
00006970    852                  AIMD  MATRIX     MA,30,9          AIMD STATISTICS (OUTPUT)
00006980    853                 ***** NOTE: DOES NOT INCLUDE ITEMS CURRENTLY IN PROCESS
00006990    854                 * ROWS 1-27 = INDIVIDUAL WORK CENTERS
00007000    855                 * ROW 30 = TOTALS
00007010    856                 *
00007020    857                 * COL 1 = WORK CENTER I.D.
00007030    858                 * COLS 2-3 NOT USED
00007040    859                 * COL 4 = ITEMS HAVING NO REPAIR REQUIRED
00007050    860                 * COL 5 = ITEMS REPAIRED
00007060    861                 * COL 6 = ITEMS BCM 1-8
00007070    862                 * COL 7 = ITEMS BCM 9
00007080    863                 * COL 8 = TOTAL ITEMS PROCESSED
00007090    864                 * COL 9 = TOTAL DIRECT MMH (X10)
00007100    865                        INITIAL    MX$AIMD(1,1),410/MX$AIMD(2,1),420/MX$AIMD(3,1),430
00007110    866                        INITIAL    MX$AIMD(4,1),440/MX$AIMD(5,1),450/MX$AIMD(6,1),460
00007120    867                        INITIAL    MX$AIMD(7,1),510/MX$AIMD(8,1),520/MX$AIMD(9,1),530
00007130    868                        INITIAL    MX$AIMD(10,1),540/MX$AIMD(11,1),550/MX$AIMD(12,1),560
00007140    869                        INITIAL    MX$AIMD(13,1),570/MX$AIMD(14,1),610/MX$AIMD(15,1),620
00007150    870                        INITIAL    MX$AIMD(16,1),630/MX$AIMD(17,1),640/MX$AIMD(18,1),650
00007160    871                        INITIAL    MX$AIMD(19,1),660/MX$AIMD(20,1),670/MX$AIMD(21,1),680
00007170    872                        INITIAL    MX$AIMD(22,1),690/MX$AIMD(23,1),710/MX$AIMD(24,1),720
00007180    873                        INITIAL    MX$AIMD(25,1),810/MX$AIMD(26,1),820/MX$AIMD(27,1),830
00007190    874                        INITIAL    MX$AIMD(28,1),111
00007200    875                 *
00007210    876                 *
00007220    877                 *
00007230    878                 ***** SUBSYSTEM MATRICES *****
00007240    879                 * NOTE: EACH MAINTENANCE-SIGNIFICANT SUBSYSTEM IS DEFINED BY AN
00007250    880                 *   81-COLUMN HALFWORD MATRIX WITH ONE ROW PER MAINTENANCE-SIGNIFICANT
00007260    881                 *   WRA.
00007270    882                 * ROWS = INDIVIDUAL WRAS
00007280    883                 *
00007290    884                 * COLUMNS 1-42 CONTAIN INPUT DATA.  COLUMNS 43-81 CONTAIN OUTPUT DATA.
00007300    885                 *
00007310    886                 * COLS 1-3
00007320    887                 *      NOTE:  COLUMNS 1-3 ARE NOT USED BY THE PROGRAM.  HOWEVER IT IS
00007330    888                 *             STRONGLY RECOMMENDED THAT THESE COLUMNS BE APPROPRIATELY
00007340    889                 *             INITIALIZED IN ORDER TO PROVIDE A VISUAL CROSS REFERENCE
00007350    890                 *             TO THE ACTUAL WRA I.D. CODES.  THE FOLLOWING SCHEME IS
00007360    891                 *             SUGGESTED TO REPRESENT THE ALPHANUMERIC WORK UNIT CODES IN
00007370    892                 *             THE INTEGER NUMERIC FORMAT REQUIRED BY THE GPSS PROGRAM:
00007380    893                 *
00007390    894                 *                 COL 1     COL 2     COL 3
00007400    895                 *                 ABCC      DDEE      FFGG
00007410    896                 *
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LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00007420   897                    *       WHERE
00007430   898                    *         A & B ARE SINGLE CHARACTER NUMERIC DIGITS CORRESPONDING TO THE
00007440   899                    *              FIRST AND SECOND NUMERIC CHARACTERS RESPECTIVELY OF THE
00007450   900                    *              WORK UNIT CODE.
00007460   901                    *         CC THROUGH GG ARE TWO DIGIT NUMBERS REPRESENTING THE THIRD
00007470   902                    *              THROUGH THE SEVENTH ALPHANUMERIC CHARACTERS RESPECTIVELY OF
00007480   903                    *              THE WORK UNIT CODE.
00007490   904                    *
00007500   905                    *                   WUC CHARACTER      CC-GG REPRESENTATION
00007510   906                    *                         0                  00
00007520   907                    *                         1                  01
00007530   908                    *                         2                  02
00007540   909                    *                         *                  **
00007550   910                    *                         9                  09
00007560   911                    *                         A                  10
00007570   912                    *                         B                  11
00007580   913                    *                         *                  **
00007590   914                    *                         Z                  35
00007600   915                    *
* 12/10/82 916                    ***** NOTE: FOR COLUMNS 4-9 THE MAINTENANCE ACTION PROBABILITIES ARE
* 12/10/82 917                    *       X10,000.
00007630   918                    * COL 4 = MAINTENANCE ACTION PROBABILITY - GROUND CREW INSPECTION
00007640   919                    * COL 5 = MAINTENANCE ACTION PROBABILITY - AIR CREW INSPECTION
00007650   920                    * COL 6 = MAINTENANCE ACTION PROBABILITY - DAILY INSPECTION
00007660   921                    * COL 7 = MAINTENANCE ACTION PROBABILITY - CALENDAR/PHASED INSPECTION
00007670   922                    * COL 8 = MAINTENANCE ACTION PROBABILITY - BAD PART FROM SUPPLY
00007680   923                    * COL 9 = MAINTENANCE ACTION RATE (X10,000) - IN FLIGHT
00007690   924                    * COL 10 - NOT USED
00007700   925                    * COL 11 = AIR ABORT PROBABILITY (X1000)
00007710   926                    * COL 12 = WORK CENTER - ORGANIZATIONAL, PRIMARY
00007720   927                    * COL 13 = MANPOWER (X10) - ORGANIZATIONAL, PRIMARY
00007730   928                    * COL 14 = SKILL CODE - ORGANIZATIONAL, PRIMARY (NOT USED THIS VERSION)
00007740   929                    * COL 15 = PROBABILITY (X1000) OF REQUIRING ALTERNATE WORK CENTER
00007750   930                    * COL 16 = WORK CENTER - ORGANIZATIONAL, ALTERNATE
00007760   931                    * COL 17 - NOT USED
00007770   932                    * COL 18 = SKILL CODE - ORGANIZATIONAL, ALTERNATE (NOT USED THIS
00007780   933                    *       VERSION)
00007790   934                    * COL 19 = WORK CENTER - INTERMEDIATE
00007800   935                    * COL 20 = MANPOWER (X10) - INTERMEDIATE
00007810   936                    * COL 21 = SKILL CODE - INTERMEDIATE (NOT USED THIS VERSION)
00007820   937                    * COL 22 = MEAN TIME TO REPAIR - ORGANIZATIONAL LEVEL
00007830   938                    * COL 23 = MEAN TIME TO REPAIR - INTERMEDIATE LEVEL
00007840   939                    * COL 24 = PROBABILITY (X1000) OF REMOVE AND REPLACE
00007850   940                    * COL 25 = PROBABILITY (X1000) OF BCM, CODE 1-8
00007860   941                    * COL 26 = PROBABILITY (X1000) OF BCM, CODE 9
00007870   942                    * COL 27 = PROBABILITY (X1000) OF NO REPAIR REQUIRED (ORG. LEVEL)
00007880   943                    * COL 28 = PROBABILITY (X1000) OF NO REPAIR REQUIRED (INT. LEVEL)
00007890   944                    * COL 29 = POST-MAINTENANCE TEST FLIGHT REQUIREMENT CODE
00007900   945                    *          1 = TEST FLIGHT REQUIRED
00007910   946                    * COL 30 = PROBABILITY (X1000) OF BEING THROWAWAY ITEM AT ORG. LEVEL
00007920   947                    ***** NOTE:  THE FOLLOWING TWO COLUMNS APPLY TO CYCLIC OPS ONLY
00007930   948                    * COL 31 = PROBABILITY (X1000) THAT REPAIR CAN BE DONE ON FLIGHT DECK
00007940   949                    * COL 32 = PROBABILITY (X1000) THAT IN-CYCLE FLIGHT DECK MAINTENANCE
00007950   950                    *       CAN BE PERFORMED
00007960   951                    * COL 33 = SUBSYSTEM (MESM) EOC
00007970   952                    ***** THE FOLLOWING FOUR COLUMNS APPLY TO REMOVE AND REPLACE MAINTENANCE
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GPSS/H  V4/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00007980    953                *            ACTIONS:
00007990    954                * COL 34 = PROBABILITY (X1.00) OF DISCREPANCY HAVING SUBSYSTEM EOC WHEN
00008000    955                *              RECEIVED
00008010    956                * COL 35 = PROBABILITY (X1.00) OF DISCREPANCY HAVING AUO EOC WHEN
00008020    957                *              RECEIVED
00008030    958                * COL 36 = PROBABILITY (X1.00) OF SCIR-RELATED DISCREPANCY HAVING
00008040    959                *              ALTERNATE EOC IN WORK
00008050    960                * COL 37 = ALTERNATE EOC, IF ANY
00008060    961                ***** THE FOLLOWING FOUR COLUMNS APPLY TO REPAIR-IN-PLACE MAINTENANCE
00008070    962                *            ACTIONS:
00008080    963                * COL 38 = PROBABILITY (X1.00) OF DISCREPANCY HAVING SUBSYSTEM EOC WHEN
00008090    964                *              RECEIVED
00008100    965                * COL 39 = PROBABILITY (X1.00) OF DISCREPANCY HAVING AUO EOC WHEN
00008110    966                *              RECEIVED
00008120    967                * COL 40 = PROBABILITY (X1.00) OF SCIR-RELATED DISCREPANCY HAVING
00008130    968                *              ALTERNATE EOC IN WORK
00008140    969                * COL 41 = ALTERNATE EOC, IF ANY
00008150    970                *            THESE EOC'S ARE REPERESENTED AS FOLLOWS:
00008160    971                *            1ST TWO DIGITS = MISSION IMPACT CODE (FIRST CHARACTER OF
00008170    972                *              ACTUAL EOC
00008180    973                *            0 = NONE
00008190    974                *            2 = MISSION CODE B
00008200    975                *            3 = MISSION CODE C
00008210    976                *            4 = MISSION CODE D
00008220    977                *            5 = MISSION CODE E
00008230    978                *            6 = MISSION CODE F
00008240    979                *            7 = MISSION CODE G
00008250    980                *            8 = MISSION CODE H
00008260    981                *           10 = MISSION CODE J
00008270    982                *           11 = MISSION CODE K
00008280    983                *           12 = MISSION CODE L
00008290    984                *           26 = MISSION CODE Z
00008300    985                *            3RD & 4TH DIGITS = 2ND & 3RD DIGITS RESPECTIVELY OF ACTUAL EOC
00008310    986                *                EXAMPLE:  2642 = Z42
00008320    987                * COL 42 = CANNIBALIZATION SUSCEPTIBILITY FLAG
00008330    988                *           1 = THIS WRA MAY NOT BE CANNIBALIZED
00008340    989                *           0 = THIS WRA MAY BE CANNIBALIZED
00008350    990                *           1 = THIS WRA MAY NOT BE CANNIBALIZED
00008360    991                * COL 43 = INITIALLY OUTFITTED SPARES
00008370    992                * COL 44 = SPARES CURRENTLY RFI
00008380    993                * COL 45 = MINIMUM SPARES RFI
00008390    994                * COL 46 = NOT AVAILABLE FOR CANNIBALIZATION FLAG (PAGE CAN6)
00008400    995                ***** NOTE:  COLUMNS 47-54 DO NOT INCLUDE CANNIBALIZATION REMOVALS AND
00008410    996                *      REPLACEMENTS
00008420    997                * COL 47 = TOTAL DISCREPANCIES
00008430    998                * COL 48 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = GROUND CREW
00008440    999                *      INSPECTION
00008450   1000                * COL 49 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = AIRCREW INSPECTION
00008460   1001                * COL 50 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = DAILY INSPECTION
00008470   1002                * COL 51 = ORG. MAINT.ACTIONS - WHEN DISCOVERED = CALENDAR/PHASED INSP.
00008480   1003                * COL 52 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = BAD PART FROM SUPPLY
00008490   1004                * COL 53 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = IN FLIGHT
00008500   1005                * COL 54 = TOTAL MAINTENANCE ACTIONS - ORGANIZATIONAL
00008510   1006                * COL 55 = TOTAL ELAPSED MAINTENANCE TIME - ORGANIZATIONAL
00008520   1007                * COL 56 = TOTAL DIRECT MAN-HOURS - ORGANIZATIONAL
00008530   1008                * COL 57 = NUMBER OF WRA MAINTENANCE ACTIONS - ORGANIZATIONAL
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GPSS/H  VM/370 RELEASE 1.0 (AY102)      10 DEC 82  10:40:04    FILE: A7ENCUPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00008540  1009                    * COL 58 = TOTAL MAINTENANCE ACTIONS - INTERMEDIATE
00008550  1010                    * COL 59 = TOTAL ELAPSED MAINTENANCE TIME - INTERMEDIATE
00008560  1011                    * COL 60 = TOTAL DIRECT MAN-HOURS - INTERMEDIATE
00008570  1012                    * COL 61 = NUMBER OF CANNIBALIZATION REMOVALS
00008580  1013                    * COL 62 = NUMBER OF NRK ACTIONS - INTERMEDIATE
00008590  1014                    * COL 63 = NUMBER OF SUPPLY ACTIONS
00008600  1015                    * COL 64 = NUMBER OF TIMES SPARE NOT AVAILABLE FROM SUPPLY
00008610  1016                    * COL 65 = NUMBER OF BAD PARTS RECEIVED FROM SUPPLY
00008620  1017                    * COL 66 = NUMBER OF TIMES BCM, CODES 1-8
00008630  1018                    * COL 67 = NUMBER OF TIMES BCM, CODE 9
00008640  1019                    * COL 68 = NUMBER OF REPLACEMENTS AFTER CANNIBALIZATION
00008650  1020                    * COLS 69-70 - NOT USED
00008660  1021                    * COL 71 = SCIR IMPACT TIME - NMCS
00008670  1022                    * COL 72 = SCIR IMPACT TIME - NMCM
00008680  1023                    * COL 73 = SCIR IMPACT TIME - PMCS
00008690  1024                    * COL 74 = SCIR IMPACT TIME - PMCM
00008700  1025                    * COL 75 = SCIR DISCREPANCY TIME - NMCS
00008710  1026                    * COL 76 = SCIR DISCREPANCY TIME - NMCM
00008720  1027                    * COL 77 = SCIR DISCREPANCY TIME - PMCS
00008730  1028                    * COL 78 = SCIR DISCREPANCY TIME - PMCM
00008740  1029                    * COL 79 = SCIR DISCREPANCY AWM TIME
00008750  1030                    * COL 80 = NUMBER OF MAINTENANCE ACTIONS WITH SUBSYSTEM EOC WHEN
00008760  1031                    *            RECEIVED
00008770  1032                    * COL 81 = NUMBER OF MA'S WITH EOC CODE 'ACO' EOC CODE WHEN RECEIVED
00008780  1033                    *
00008790  1034                    *
00008800  1035                    *
00008810  1036                    *SYST_ MATRIX     MX,NROWS,61       SYSTEM MATRIX
00008820  1037                    * NROWS = NUMBER OF SUBSYSTEM MATRICES
00008830  1038                    *
00008840  1039                    * INPUT COLUMNS:  2-3, 11-12, 14-23
00008850  1040                    * OUTPUT COLUMNS:  4-9, 27-61
00008860  1041                    *
00008870  1042                    * COL 2 = SUBSYSTEM HALFWORD MATRIX INDEX
00008880  1043                    * COL 3 = NUMBER OF RUNS IN SUBSYSTEM MM
00008890  1044                    * COLS 4-9 = SAME AS IN SUBSYSTEM MATRICES
00008900  1045                    * COL 11 = SUBSYSTEM MISDIAGNOSIS SUSCEPTIBILITY MODE
00008910  1046                    *        0 = SUBSYSTEM IS NOT SUBJECT TO MISDIAGNOSIS
00008920  1047                    *        1 = SUBSYSTEM IS SUBJECT TO MISDIAGNOSIS
00008930  1048                    * COLS 12-13 - NOT USED
00008940  1049                    * COLS 14-23:
00008950  1050                    *           ANY NONZERO POSITIVE INTEGER INITIALIZED IN COLUMNS 14-19
00008960  1051                    *         OF MX$SYST_ WILL BE INTERPRETED AS A PERCENTAGE MODIFIER OF
00008970  1052                    *         ALL NRA MAINTENANCE ACTION EVENT PROBABILITIES FOR THE
00008980  1053                    *         CORRESPONDING SUBSYSTEM AND EVENT.  ANY NONZERO POSITIVE
00008990  1054                    *         INTIGER INITIALIZED IN COLUMNS 20-21 WILL BE INTERPRETED AS A
00009000  1055                    *         PERCENTAGE MODIFIER OF ALL NRA MEAN EMT'S FOR THE
00009010  1056                    *         CORRESPONDING ORGANIZATIONAL OR INTERMEDIATE LEVEL MAINTENANCE
00009020  1057                    *         AND SUBSYSTEMS.
00009030  1058                    *           ANY NONZERO NEGATIVE INTEGER INITIALIZED IN COLUMNS 14-21
00009040  1059                    *         WILL BE INTERPRETED AS A 0 PERCENT MODIFIER, RESULTING IN ZERO
00009050  1060                    *         VALUES FOR THE CORRESPONDING NRA DATA ELEMENTS.
00009060  1061                    *           ANY VALUE NOT INITIALIZED IN COLUMNS 14-21 (OR INITIALIZED
00009070  1062                    *         TO  ) WILL BE INTERPRETED AS A 100 PERCENT MODIFIER, RESULTING
00009080  1063                    *         IN NO MODIFICATION OF THE CORRSPONDING NRA DATA ELEMENTS.
00009090  1064                    *           THE SAME APPLIES TO COLUMNS 22 AND 23, WHICH CONTAIN THE
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   GPSS/H  V4/37.0 RELEASE 1.3 (AY142)      13 DEC 82  10:40:31.4    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00009100   1065                *        RUN TIME MODIFIERS FOR IMA TURNAROUND TIME AND RESUPPLY DELAY
 00009110   1066                *        RESPECTIVELY, EXCEPT THAT THESE MODIFIERS ARE APPLIED TO EACH
 00009120   1067                *        CALCULATED VALUE, RATHER THAN TO THE MEAN INPUT VALUE.
 00009130   1068                *
 00009140   1069                * NOTE:  ROW 5 OF MHSTYPE MUST BE = 1 FOR THIS OPTION TO BE IN EFFECT
 00009150   1070                * COL 14 = RUN TIME PERCENTAGE MODIFIER - MAINTENANCE ACTION PROBABILITY
 00009160   1071                *        GROUND CREW INSPECTION
 00009170   1072                * COL 15 = RUN TIME PERCENTAGE MODIFIER - MAINTENANCE ACTION PROBABILITY
 00009180   1073                *        AIRCREW INSPECTION
 00009190   1074                * COL 16 = RUN TIME PERCENTAGE MODIFIER - MAINTENANCE ACTION PROBABILITY
 00009200   1075                *        DAILY INSPECTION
 00009210   1076                * COL 17 = RUN TIME PERCENTAGE MODIFIER - MAINTENANCE ACTION PROBABILITY
 00009220   1077                *        CALENDAR/PHASED INSPECTION
 00009230   1078                * COL 18 = RUN TIME PERCENTAGE MODIFIER - MAINTENANCE ACTION PROBABILITY
 00009240   1079                *        BAD PART FROM SUPPLY
 00009250   1080                * COL 19 = RUN TIME PERCENTAGE MODIFIER - MAINTENANCE ACTION RATE
 00009260   1081                *        IN FLIGHT
 00009270   1082                * COL 20 = RUN TIME PERCENTAGE MODIFIER - MEAN EMT - ORGANIZATIONAL
 00009280   1083                * COL 21 = RUN TIME PERCENTAGE MODIFIER - MEAN EMT - INTERMEDIATE
 00009290   1084                * COL 22 = RUN TIME PERCENTAGE MODIFIER - IMA TURNAROUND TIME
 00009300   1085                * COL 23 = RUN TIME PERCENTAGE MODIFIER - RESUPPLY DELAY
 00009310   1086                * COL 27 = TOTAL DISCREPANCIES
 00009320   1087                * NOTE:  COLUMNS 28-39 DO NOT INCLUDE CANNIBALIZATION REMOVALS AND
 00009330   1088                *      REPLACEMENTS
 00009340   1089                * COL 28 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = GROUND CREW INSP.
 00009350   1090                * COL 29 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = AIRCREW INSP.
 00009360   1091                * COL 30 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = DAILY INSP.
 00009370   1092                * COL 31 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = CALENDAR/PHASED INSP.
 00009380   1093                * COL 32 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = BAD PART FROM SUPPLY
 00009390   1094                * COL 33 = ORG. MAINT. ACTIONS - WHEN DISCOVERED = IN FLIGHT
 00009400   1095                * COL 34 = TOTAL ORGANIZATIONAL MAINTENANCE ACTIONS
 00009410   1096                * COL 35 = TOTAL ELAPSED MAINTENANCE TIME - ORGANIZATIONAL
 00009420   1097                * COL 36 = TOTAL DIRECT MAN HOURS - ORGANIZATIONAL
 00009430   1098                * COL 37 = NUMBER OF NRK MAINTENANCE ACTIONS - ORGANIZATIONAL
 00009440   1099                * COL 38 = TOTAL MAINTENANCE ACTIONS - INTERMEDIATE
 00009450   1100                * COL 39 = TOTAL ELAPSED MAINTENANCE TIME - INTERMEDIATE
 00009460   1101                * COL 40 = TOTAL DIRECT MAN HOURS - INTERMEDIATE
 00009470   1102                * COL 41 = NUMBER OF CANNIBALIZATION REMOVALS
 00009480   1103                * COL 42 = NUMBER OF NRK MAINTENANCE ACTIONS - INTERMEDIATE
 00009490   1104                * COL 43 = NUMBER OF SUPPLY ACTIONS
 00009500   1105                * COL 44 = NUMBER OF TIMES SPARE NOT AVAILABLE FROM SUPPLY
 00009510   1106                * COL 45 = NUMBER OF BAD PARTS RECEIVED FROM SUPPLY
 00009520   1107                * COL 46 = NUMBER OF BCM ACTIONS - CODES 1-8
 00009530   1108                * COL 47 = NUMBER OF BCM ACTIONS - CODE 9
 00009540   1109                * COL 48 = NUMBER OF REPLACEMENTS AFTER CANNIBALIZATION
 00009550   1110                * COL 49-50 -  NOT USED
 00009560   1111                * COL 51 = SCIR IMPACT TIME - NMCS
 00009570   1112                * COL 52 = SCIR IMPACT TIME - NMCM
 00009580   1113                * COL 53 = SCIR IMPACT TIME - PMCS
 00009590   1114                * COL 54 = SCIR IMPACT TIME - PMCM
 00009600   1115                * COL 55 = SCIR DISCREPANCY TIME - NMCS
 00009610   1116                * COL 56 = SCIR DISCREPANCY TIME - NMCM
 00009620   1117                * COL 57 = SCIR DISCREPANCY TIME - PMCS
 00009630   1118                * COL 58 = SCIR DISCREPANCY TIME - PMCM
 00009640   1119                * COL 59 = SCIR DISCREPANCY AWM TIME
 00009650   1120                * COL 60 = NUMBER OF MAINTENANCE ACTIONS WITH SUBSYSTEM EOL WHEN
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GPSS/H  V4/37.0 RELEASE 1.0 (AY162)       10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00009660   1121                 *              RECEIVED
 00009670   1122                 * COL 61 = NUMBER OF MA'S WITH EOC CODE 'AUO' EUC CODE WHEN RECEIVED
 00009680   1123                 *
 00009690   1124                 *
 00009700   1125                 *
 00009710   1126                 *SYSUM MATRIX     MX,NROWS,61       SYSTEM SUMMARY (OUTPUT)
 00009720   1127                 * NROWS = NUMBER OF SQUADRONS
 00009730   1128                 * COLS 4-9 AND 27-61 HAVE SAME MEANINGS AS IN MX$SYST_
 00009740   1129                 *
 00009750   1130                 *
 00009760   1131                 *
 00009770   1132                 *SCIM_ MATRIX     MX,NROWS,8        SCIR IMPACT SUMMARY BY EOC
 00009780   1133                 *
 00009790   1134                 * NROWS = NUMBER OF EOC'S THIS A/C TYPE
 00009800   1135                 *
 00009810   1136                 *    INPUT COLUMNS:
 00009820   1137                 * COL 1 = EOC (FOR CODING INFORMATION SEE DESCRIPTION OF COLUMNS 37 &
 00009830   1138                 *      38 OF SUBSYSTEM MATRICES
 00009840   1139                 *    OUTPUT COLUMNS:
 00009850   1140                 * COL 2 = SCIR IMPACT TIME - MAINTENANCE
 00009860   1141                 * COL 3 = SCIR IMPACT TIME - SUPPLY
 00009870   1142                 * COL 4 = SUBSYSTEM NOT AVAILABLE TIME - MAINTENANCE
 00009880   1143                 * COL 5 = SUBSYSTEM NOT AVAILABLE TIME - SUPPLY
 00009890   1144                 * COL 6 = SCIR DISCREPANCY TIME - MAINTENANCE
 00009900   1145                 * COL 7 = SCIR DISCREPANCY TIME - SUPPLY
 00009910   1146                 * COL 8 = SCIR DISCREPANCY AMM TIME
 00009920   1147                 *
 00009930   1148                 *
 00009940   1149                 *
 00009950   1150                 ***** CUMULATIVE MAINTENANCE ACTION RATE MATRICES *****
 00009960   1151                 *CFR_4 MATRIX     MX,NROWS,3  GROUND CREW INSPECTION
 00009970   1152                 *CFR_5 MATRIX     MX,NROWS,3  AIR CREW INSPECTION
 00009980   1153                 *CFR_6 MATRIX     MX,NROWS,3  DAILY INSPECTION
 00009990   1154                 *CFR_7 MATRIX     MX,NROWS,3  CALENDAR/PHASED INSPECTION
 00010000   1155                 *CFR_9 MATRIX     MX,NROWS,3  IN FLIGHT
 00010010   1156                 * NOTE:  A SET OF SUCH MATRICES ARE REQUIRED FOR EACH A/C TYPE BEING
 00010020   1157                 *       SIMULATED
 00010030   1158                 *
 00010040   1159                 *         *_* REFERS TO THE A/C TYPE NUMBER (E.G. *1*)
 00010050   1160                 *         NROWS = AT LEAST EQUAL TO THE TOTAL NUMBER OF NONZERO
 00010060   1161                 *                 NONZERO MAINTENANCE ACTION PROBABILITY MRA'S THIS A/C
 00010070   1162                 *                 TYPE THIS EVENT.  REFER TO COLS 4, 5, 6, 7 & 9
 00010080   1163                 *                 RESPECTIVELY OF THE APPROPRIATE SUBSYSTEM MATRICES
 00010090   1164                 *                 DEFINED FOR THIS A/C TYPE.
 00010100   1165                 *         THESE MATRICES ARE AUTOMATICALLY LOADED DURING MODEL EXECUTION
 00010110   1166                 *
 00010120   1167                 *
 00010130   1168                 *
 00010140   1169                 * THE FOLLOWING MATRIX IS NEITHER INPUT NOR OUTPUT.  IT IS USED
 00010150   1170                 *       INTERNALLY BY THE PROGRAM.
 00010160   1171                  NZSUM MATRIX     MH,10,9
*12/10/82   1172                  SCIT  MATRIX     MX,1,8      *ISI*  SCIM MATRIX SUMMATION - SCIT
*12/10/82   1173                 *  COL. NO. 1 IS EMPTY
*12/10/82   1174                 *  COL. NO. 2 IS TOTAL SCIR IMPACT TIME - MAINTENANCE
*12/10/82   1175                 *  COL. NO. 3 IS TOTAL SCIR IMPACT TIME - SUPPLY
*12/10/82   1176                 *  COL. NO. 4 IS TOTAL SUBSYSTEM NOT AVAILABLE TIME - MAINT.
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   GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

____LINE# STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

* 12/10/82  1177                *  COL. NO. 5 IS TOTAL SUBSYSTEM NOT AVAILABLE TIME - SUPPLY
* 12/10/82  1178                *  COL. NO. 6 IS TOTAL SCIR DISCREPENCY TIME - MAINTENANCE
* 12/10/82  1179                *  COL. NO. 7 IS TOTAL SCIR DISCREPENCY TIME - SUPPLY
* 12/10/82  1180                *  COL. NO. 8 IS TOTAL SCIR ANM TIME
  00010170  1181                *
  00010180  1182                *
  00010190  1183                *
  00010200  1184                ********************************************************************************
  00010210  1185                * STORAGES
  00010220  1186                ********************************************************************************
  00010230  1187                *
  00010240  1188                * THE FOLLOWING STORAGES ARE DEFINED
  00010250  1189                *       NAME          MEANING
  00010260  1190                *       ----          -------
  00010270  1191                *       MDMS_         HANGAR DECK MAINTENANCE SPACES THIS SQUADRON (CYCLIC
  00010280  1192                *                     UPS ONLY)
  00010290  1193                *       MAD_1         MANPOWER (X10) W.C. 110 - 1ST SHIFT THIS SQUADRON
  00010300  1194                *       MAM_1         MANPOWER (X10) W.C. 120 - 1ST SHIFT THIS SQUADRON
  00010310  1195                *       AME_1         MANPOWER (X10) W.C. 130 - 1ST SHIFT THIS SQUADRON
  00010320  1196                *       CHK_1         MANPOWER (X10) W.C. 240 - 1ST SHIFT THIS SQUADRON
  00010330  1197                *       MAT_1         MANPOWER (X10) W.C. 210 - 1ST SHIFT THIS SQUADRON
  00010340  1198                *       MAE_1         MANPOWER (X10) W.C. 220 - 1ST SHIFT THIS SQUADRON
  00010350  1199                *       MAU_1         MANPOWER (X10) W.C. 230 - 1ST SHIFT THIS SQUADRON
  00010360  1200                *       MAQ_1         MANPOWER (X10) W.C. 250 - 1ST SHIFT THIS SQUADRON
  00010370  1201                *       LIN_1         MANPOWER (X10) W.C. 300 - 1ST SHIFT THIS SQUADRON
  00010380  1202                *       MAD_2         MANPOWER (X10) W.C. 110 - 2ND SHIFT THIS SQUADRON
  00010390  1203                *       MAM_2         MANPOWER (X10) W.C. 120 - 2ND SHIFT THIS SQUADRON
  00010400  1204                *       AME_2         MANPOWER (X10) W.C. 130 - 2ND SHIFT THIS SQUADRON
  00010410  1205                *       CHK_2         MANPOWER (X10) W.C. 140 - 2ND SHIFT THIS SQUADRON
  00010420  1206                *       MAT_2         MANPOWER (X10) W.C. 210 - 2ND SHIFT THIS SQUADRON
  00010430  1207                *       MAE_2         MANPOWER (X10) W.C. 220 - 2ND SHIFT THIS SQUADRON
  00010440  1208                *       MAU_2         MANPOWER (X10) W.C. 230 - 2ND SHIFT THIS SQUADRON
  00010450  1209                *       MAQ_2         MANPOWER (X10) W.C. 250 - 2ND SHIFT THIS SQUADRON
  00010460  1210                *
  00010470  1211                *
  00010480  1212                *
  00010490  1213                ********************************************************************************
  00010500  1214                * TABLES
  00010510  1215                ********************************************************************************
  00010520  1216                *
  00010530  1217                *OPC_   TABLE       G$OPC,0,1,K        UPC A/C AT START OF FLYING DAY
  00010540  1218                *          K = NUMBER OF A/C IN SQUADRON * 2
  00010550  1219                *DSCF_  TABLE       P$24,0,1,13        INFLIGHT DISCREPANCY DISTRIBUTION
  00010560  1220                *TNMC_  TABLE       MP12PF,1,10,100    NMC TIME DISTRIBUTION
  00010570  1221                *UNSQ_  TABLE       M1,10,10,100       UNSCH. MAINT. QUEUE TIME
  00010580  1222                *
  00010590  1223                *
  00010600  1224                *
  00010610  1225                ********************************************************************************
  00010620  1226                * FUNCTIONS
  00010630  1227                ********************************************************************************
  00010640  1228                *
  00010650  1229                 ALPHA FUNCTION   XH$DMSTA,D22       A/C PB TO BE ALTERED
  00010660  1230                 ,41/1,45/4,49/3,53/12,53/26,57/100,42/102,53/103,54/112,54
  00010670  1231                120,54/216,43/201,47/202,54/203,55/212,55/226,54/300,44/302,52/303,56
  00010680  1232                314,56/326,0
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   GPSS/H  V4/37( RELEASE 1.( (AY192)       10 DEC 92  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00010690   1233                    *
00010700   1234                    *
00010710   1235                     CEXP  FUNCTION   RN1,C24       CUMULATIVE EXPONENTIAL DISTRIBUTION
00010720   1236                    0,0/.1,.105/.2,.223/.3,.357/.4,.511/.5,.693/.55,.799/.6,.916/.65,1.05
00010730   1237                    .7,1.2(4/.75,1.385/.8,1.60?/.84,1.833/.87,2.04/.9,2.303/.92,2.526
00010740   1238                    .94,2.813/.95,2.996/.96,3.219/.97,3.507/.98,3.912/.985,4.27/.99,4.605
00010750   1239                    .994,5.116/.995,5.521/.997,5.8?9/.998,6.215/.9985,6.502/.999,6.908
00010760   1240                    .9995,7.601/.9997,8.112/.9998,8.517/.9999,9.21/.99995,9.903
00010770   1241                    .99997,10.414/.99998,10.82/.99999,11.513/.999995,12.206/.999997,12.717
00010780   1242                    .999999,13.816
00010790   1243                    *
00010800   1244                    *
00010810   1245                     CHOSI FUNCTION   PB2,L4             A/C PB - DISCREPANCIES AWP
00010820   1246                    1,44/2,52/3,56/4,60
00010830   1247                    *
00010840   1248                    *
00010850   1249                     CMCAP FUNCTION   XB$MISS,D11       COLUMN NUMBER - MX$MCAP_
00010860   1250                    2,2/3,3/4,4/5,5/6,6/7,7/8,8/10,9/11,10/12,11/26,12
00010870   1251                    *
00010880   1252                    *
00010890   1253                     CSUPP FUNCTION   XB$MISS,D4        COLUMN NUMBER (SUPPLY) - MX$UTIL_
00010900   1254                    2,3/3,5/12,5/26,8
00010910   1255                    *
00010920   1256                    *
00010930   1257                     EXP   FUNCTION   XF$ARG,C41        EXPONENTIAL FUNCTION
00010940   1258                    0,100000/200,998002/400,995192/600,991209/800,985605/1000,977751
00010950   1259                    1200,966668/1400,951039/1600,929136/1800,899425/2000,857172
00010960   1260                    22000,800115/2400,744532/2600,691425/2800,640184/3000,590964
00010970   1261                    3200,543351/3400,498077/3600,454753/3800,413127/4000,373813
00010980   1262                    109000,336216/120000,301194/132000,269820/144000,239309/156000,210136
00010990   1263                    17?000,182684/192000,157237/204000,133939/216000,111917/228000,92551
00011000   1264                    259000,75020/282000,59013/312000,45049/342000,32712/380000,22371
00011010   1265                    427000,13962/489000,7521/579000,3058/748000,564/1500000,0
00011020   1266                    *
00011030   1267                    *
00011040   1268                     EVCOL FUNCTION   PB1,D5          COLUMN NUMBER - AC EVENT
00011050   1269                    1,4/2,5/3,6/4,7/5,9
00011060   1270                    *
00011070   1271                    *
00011080   1272                     ICHKT FUNCTION   RN1,C10         IMA TURNAROUND TIME (CHECKOUT) - HRS
00011090   1273                    .02,2.5/.(6,3/.18,4/.34,5/.5,6/.63,7/.74,8/.87,10/.94,12/.98,15
00011100   1274                    *
00011110   1275                    *
00011120   1276                     INITI FUNCTION   PB1,D11         MATRIX INITIALIZATION - ORG. M.C. I.D.
00011130   1277                    1,110/2,12 /3,13?/4,211/5,150/6,210/7,220/8,23?/9,240/10,212/11,300
00011140   1278                    *
00011150   1279                    *
00011160   1280                     IREPT FUNCTION   RN1,C16         IMA TURNAROUND TIME (REPAIR) - DAYS
00011170   1281                    .2,.25/.3,.5/.43,1/.55,2/.63,3/.69,4/.72,5/.77,7/.82,10/.865,15/.892,20
00011180   1282                    .922,30/.94,4(/.952,5?/.96(,70/.977,1??
00011190   1283                    *
00011200   1284                    *
00011210   1285                     MMJLC FUNCTION   XB$MPR,S5,C       MISSION SELECTION HOLDING CHAIN INDEX
00011220   1286                    1,MMLC1/2,MMLD2/3,MMLD3/4,MMLD4/5,MMLD5
00011230   1287                    *
00011240   1288                    *
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GPSS/H  VM/37  RELEASE 1.3 (AV162)        10 DEC 82  10:40:04    FILE: A7ENCUPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00011250  1289                 OTASK FUNCTION   P817,D8            ORGANIZATIONAL MAINTENANCE TASK
00011260  1290                1,USCAA/3,USDAA/13,USEAA/15,USFAA/16,CANAA/17,USEAA/18,USFAA/23,SUPA
00011270  1291                *
00011280  1292                *
00011290  1293                 PTR01 FUNCTION   P89,D6        ROW POINTER - MH$INEW_
00011300  1294                2,2/3,3/4,1/6,4/8,5/9,5
00011310  1295                *
00011320  1296                *
00011330  1297                 PTR02 FUNCTION   P89,D6        ROW POINTER - MH$QUE & MH$STU
00011340  1298                2,4/4,1/6,5/8,6/9,7/11,8
00011350  1299                *
00011360  1300                *
00011370  1301                 PTR03 FUNCTION   P89,D4        ROW POINTER - MH$PMH_
00011380  1302                2,1/3,2/6,3/8,4
00011390  1303                *
00011400  1304                *
00011410  1305                 PTR04 FUNCTION   XH$WKC,D11          ROW POINTER - MH$QUE
00011420  1306                11,16/120,17/130,19/150,2./210,21/211,19/212,25/220,22/230,23
00011430  1307                240,24/300,26
00011440  1308                *
00011450  1309                *
00011460  1310                 PTR05 FUNCTION   XH$WKC,D11          ROW POINTER - MX$WKCO_
00011470  1311                11,1/120,2/130,3/150,5/210,6/211,4/212,10/220,7/230,8/240,9/300,11
00011480  1312                *
00011490  1313                *
00011500  1314                 PTR06 FUNCTION   P89,D6        COL. POINTER - ITEMS PROCESSED - MX$WKCO_
00011510  1315                2,8/4,7/8,6/9,11/11,4/12,5
00011520  1316                *
00011530  1317                *
00011540  1318                 PTR07 FUNCTION   P89,D6        COL. POINTER - OMMH - MX$WKCO_
00011550  1319                2,18/4,17/5,18/9,21/11,14/12,15
00011560  1320                *
00011570  1321                *
00011580  1322                 PTR08 FUNCTION   P82,D7        COL. POINTER - SUBSYSTEM MH
00011590  1323                2,48/3,49/5,53/5,48/8,51/9,51/12,52
00011600  1324                *
00011610  1325                *
00011620  1326                 PTR11 FUNCTION   P89,D5        COL. PONTER - MX$MISA_
00011630  1327                1,15/2,16/3,17/12,17/25,18
00011640  1328                *
00011650  1329                *
00011660  1330                 PTR12 FUNCTION   P45,D28         ROW POINTER - MX$AIMO
00011670  1331                111,28
00011680  1332                41,1/420,2/430,3/440,4/450,5/460,6/510,7/520,8/530,9/540,10/550,11
00011690  1333                560,12/570,13/610,14/620,15/630,16/640,17/650,18/660,19/670,20/680,21
00011700  1334                690,22/710,23/720,24/810,25/820,26/830,27
00011710  1335                *
00011720  1336                *
00011730  1337                 PTR13 FUNCTION   P923,D2        COL. POINTER, BCM CODE - SUBSYSTEM MH
00011740  1338                9,67/12,66
00011750  1339                *
00011760  1340                *
00011770  1341                 PTR14 FUNCTION   P923,D2        COL. POINTER, BCM CODE - SYSTEM MX
00011780  1342                9,47/10,46
00011790  1343                *
00011800  1344                *
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   GPSS/H  V4/370 RELEASE 1.3 (AY162)       10 DEC 82  10:40:34    FILE: A7ENCUPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00011810  1345                  PTR15 FUNCTION   PB28,D2      COL. POINTER, BCM CODE - MX$AIMO
00011820  1346                  9,7/1e,6
00011830  1347                  *
00011840  1348                  *
00011850  1349                  PTR16 FUNCTION   PH3,C4       COLUMN NUMBER - SUBSYSTEM MH
00011860  1350                  14,9/19,9/20,22/21,23
00011870  1351                  *
00011880  1352                  *
00011890  1353                  RAN64 FUNCTION   RN4,C2       6-DIGIT RANDOM NUMBER
00011900  1354                  0,0/1,1000000
00011910  1355                  *
00011920  1356                  *
00011930  1357                  TYPRW FUNCTION   XB$EVCOL,D5        ROW NUMBER - MH$TYPE
00011940  1358                  4,14/5,15/6,16/7,17/9,18
00011950  1359                  *
00011960  1360                  *
00011970  1361                  ********************************************************************************
00011980  1362                  * ARITHMETIC VARIABLES
00011990  1363                  ********************************************************************************
00012000  1364                  *
00012010  1365                  ACJBT VARIABLE   PB13-PB10          A/C OBTAINED FROM MISSION SELECTION
00012020  1366                  ARGW  VARIABLE   10*MH*XH$SBSMH(XH$WRANR,8)     ARGUMENT OF FN$EXP
00012030  1367                  ALTIM VARIABLE   XH$RLTIM-XH$LTM1*PF2     CLOCK TIME THIS LAUNCH
00012040  1368                  BCM   VARIABLE   MH*PH19(PH20,25)+MH*PH19(PH20,26)   BCM PROBABILITY
00012050  1369                  BCM18 FVARIABLE  MH*PH19(PH20,25)/V$BCM*1000   BCM 1-8 PROBABILITY
00012060  1370                  BKPT  VARIABLE   PF2*XH$INTNR*XF$SPINT    BREAKPOINT VALUE
00012070  1371                  CALL1 VARIABLE   V$LNC1-MH$COMPL(25,PB5) CALL DAILY INSPECTION
00012080  1372                  CALL2 VARIABLE   PF3-C1-MH$COMPL(24,PB5) CALL A/C FOR MISSION
00012090  1373                  CALIO VARIABLE   10*MH$TYPE(9,PB6) AVERAGE CALENDAR INSPECTION
00012100  1374                  *                                  DURATION
00012110  1375                  CALRM VARIABLE   PF15*PH38-C1      REMAINING CALENDAR/PHASED INSPECTION
00012120  1376                  *                                  DURATION THIS A/C
00012130  1377                  CANV2 VARIABLE   PB52+PB56+PB60    SCIR DISCREPANCIES AMP
00012140  1378                  CANV4 VARIABLE   PB45+PB47+PB49+PB50+PB51+PB53+PB54+PB55+PB57+V$CANV5
00012150  1379                  CANV5 VARIABLE   PB58+PB59
00012160  1380                  *                                  SCIR IMPACT DISCREPANCIES IN WORK,
00012170  1381                  *                                  NOT YET RECEIVED, OR AWM (REASON
00012180  1382                  *                                  CODE 1-8)
00012190  1383                  CAWMR VARIABLE   XB$COL*PH15-10     COLUMN NUMBER - MX$AWMR_
00012200  1384                  CCALL VARIABLE   (PH1-1)@MH$COMPL(3,PB5)+1      CALENDAR INSPECTION
00012210  1385                  *                                               CALLING SEQUENCE
00012220  1386                  CLINT VARIABLE   MH$TYPE(5,PB6)*1000/MH$COMPL(3,PB5) CALENDAR
00012230  1387                  *                                  MAINTENANCE CALLING INTERVAL
00012240  1388                  CFRMX VARIABLE   MH$TYPE(FN$TYPRW,PB6)    MX INDEX - CUM. MAINT. ACTION
00012250  1389                  *                                         RATES
00012260  1390                  CFROW FVARIABLE  1+(XF$COMPAR/V$SPINT)     ROW NUMBER - CUM. MA RATE MX
00012270  1391                  CMCFL VARIABLE   MH$TYPE(20,PB6)+1 MISSION TYPE = CHECK FLIGHT
00012280  1392                  CMCOD VARIABLE   PH3,/1e3          CURRENT MISSION CODE
00012290  1393                  CMPAR FVARIABLE  1.*FN$RAN64       7-DIGIT RANDOM NUMBER
00012300  1394                  CMSTA VARIABLE   V$CMCOD*100*PB10  CURRENT DISCREPANCY MISSION/STATUS
00012310  1395                  *                                  CODE
00012320  1396                  CNVRT VARIABLE   XH$ADVAL*100/6+XH$ADVAL/100*10      CONVERT MILITARY
00012330  1397                  *                                                    TIME TO CLOCK UNITS
00012340  1398                  CPB1  VARIABLE   V$CNVRT-MH$COMPL(24,PB5)*240*(XH$DAY-1)   CLOCK TIME
00012350  1399                  *                                                    FOR MISSION CALL
00012360  1400                  CYCLE VARIABLE   (XH$DAY-1)@MH$EXEC(2,1)+1      COL NR. - MH$OPS
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GPSS/H  V4/37? RELEASE 1.? (AY162)        1? DEC 82  10:40:04     FILE: A7ENCOPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00012370  1481                DALIM  VARIABLE   C1-44$TYPE(13,PB6)*10   DAILY INSPECTION NON-FLYING
00012380  1482                *                                        TIME LIMIT
00012390  1483                DAWM   VARIABLE   PB47+PB51+PB55+PB59     DISCREPANCIES AWAITING MAINT.
00012400  1484                DIWM   VARIABLE   PB42+PB5 +PB54+PB58     DISCREPANCIES IN WORK
00012410  1485                DISA1  VARIABLE   39-44PB25               COL/ NR. - PROB. OF SUBSYSTEM WHEN-
00012420  1486                *                                        RECEIVED EOC
00012430  1487                DISA2  VARIABLE   39-44PB25               COL. NR. - PROB. OF AOC WHEN-
00012440  1488                *                                        RECEIVED EOC
00012450  1489                DISA3  VARIABLE   40-44PB25               COL. NR. - PROB. OF ALT. IN-WORK EOC
00012460  1490                DISA4  VARIABLE   41-44PB26               COL. NR. - ALT. EOC
00012470  1491                DMMH   FVARIABLE  (XH$MEN*XH$EMT*5)/10     DIRECT MMH (X10)
00012480  1492                DMSUM  VARIABLE   PB41+PB43+PB47+PB49+PB53+PB57+PB43+PB51+PB55+PB59
00012490  1493                *                                        NUMBER OF DISCREPANCIES REQUIRING
00012500  1494                *                                        MAINTENANCE
00012510  1495                DNYR   VARIABLE   PB41+PB49+PB53+PB57      DISCREPANCIES NOT YET RECEIVED
00012520  1496                EMTD   VARIABLE   MP1+PF-PH47              DIRECT EMT
00012530  1497                ENDAY  VARIABLE   24?+XH$DAY-C1             TIME UNTIL END OF DAY
00012540  1498                FLTQ   VARIABLE   V$L*C1-MH$EXEC(9,1)      FLIGHT QUARTERS
00012550  1499                ICHKT  FVARIABLE  10*FN$ICHKT               IMA TURNAROUND TIME - CHECKOUT
00012560  1500                ICMA1  VARIABLE   PF1-C1-MH$COMPL(5,PB5)   TIME AVAILABLE FOR IN-CYCLE
00012570  1501                *                                        MAINTENANCE
00012580  1502                IMA1   VARIABLE   XF$IFINC-C1              REMAINING INT. LEVEL SHIFT DURATION
00012590  1503                IMPCT  FVARIABLE  ((1)*XH$4ISST/XB$MISSC)*5)/10 SCIR IMPACT TIME
00012600  1504                INIT1  VARIABLE   MX*XH$SY$MX(PH1,XB$COL)+XH$DATA      MX$SYST_ DATA
00012610  1505                *                                        ELEMENT
00012620  1506                INVRT  VARIABLE   0-PB13                  INVERT THIS PARAM.
00012630  1507                IREPT  FVARIABLE  240*FN$IREPT*(MX*PH3(PH4,22))/100   IMA TURNAROUND
00012640  1508                *                                        TIME - REPAIR
00012650  1509                LINK1  VARIABLE   270?-PH3?               VALUE OF LINKING PARAMETER
00012660  1510                LINU1  VARIABLE   14*XB$OSHFT+FN$PTR04-18       ROW POINTER - WORK CTR.
00012670  1511                LMBT   VARIABLE   1?*MX$SYSUM(PB5,PB23)    ARGUMENT OF FN$EXP
00012680  1512                LMBTF  VARIABLE   MX$SYSUM(PB5,9)*PB2?     ARGUMENT OF FN$EXP
00012690  1513                LNC1   VARIABLE   PF2-C1                   TIME REMAINING UNTIL FIRST LAUNCH
00012700  1514                LNCT1  VARIABLE   XH$ADVNC*C1 TIME OF 1ST LAUNCH
00012710  1515                LROW   VARIABLE   PH4*1                    ROW NUMBER - LAUNCH TIME MH
00012720  1516                MEN    VARIABLE   (MH*PH19(PH2?,13)/1?)*BV$MEN1*10    ORGANIZATIONAL
00012730  1517                *                                        MANPOWER THIS REPAIR
00012740  1518                MLV2   VARIABLE   MH*PH19(PH2?,13)*10*100      USED IN BV$MEN1
00012750  1519                MMMC   VARIABLE   MH$TYPE(20,PB6)*2  NUMBER OF COLUMNS IN MX$MISN_
00012760  1520                MID    FVARIABLE  (XB$LLIM+XB$HLIM+1)/2      MIDPOINT OF SEARCH
00012770  1521                MSTS   FVARIABLE  XB$SUPP*XH$UTIME/(XB$SUPP*XH$USCH+XB$SCH) MISSION
00012780  1522                *                                        STATUS TIME = SUPPLY
00012790  1523                MSTSK  FVARIABLE  XB$SCH*XH$UTIME/(XH$SUPP*XB$USCH+XB$SCH)  MISSION
00012800  1524                *                                        STATUS TIME = SCHEDULED MAINT.
00012810  1525                MSTU   VARIABLE   XH$UTIME-XH$MSTS-XH$MSTSK      MISSION STATUS TIME -
00012820  1526                *                                        UNSCHEDULED MAINT.
00012830  1527                NDRAW  VARIABLE   2?0*(XP$CASE-1)   NUMBER OF RANDOM NUMBER DRAWS
00012840  1528                NFRTE  FVARIABLE  25?*MH*PH1(PH2,PH2)/MX$SYSUM(PB5,PB2)*400
00012850  1529                NMCOD  VARIABLE   PH31/100          NEW MISSION CODE
00012860  1530                NMSTA  VARIABLE   V$NMCOD*100*PB11  NEW DISCREPANCY MISSION/STATUS CODE
00012870  1531                *                                        NORMALIZED MA RATE
00012880  1532                NPROH  FVARIABLE  1?0?/0.9*(XH$PROH/XH$ITER)     NORMALIZED MA PROB.
00012890  1533                NPRO   FVARIABLE  1.0?*MH*PH19(PH2?,27)/(1.0?-MH*PH19(PH2?,24))
00012900  1534                *                                        MODIFIED NSR PROBABILITY (ORG.)
00012910  1535                OPRNA  VARIABLE   P45*11                   ROW NUMBER - MH$OPS
00012920  1536                ORDL   VARIABLE   XH$4TYP*5               ROW POINTER - 4H$PMH_
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GPSS/H  VM/370 RELEASE 1.0 (AY192)       10 DEC 82  10:40:04    FILE: A7ENCUPS

LINE#  STMT#  IF GO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00012930  1457          PART  VARIABLE   XH$WRANK*100+XH$SBSMH  CASEE PART NUMBER
00012940  1458          PHA01 VARIABLE   1+MH$TYPE(11,PB6)      FLIGHT TIME BETWEEN PHASES
00012950  1459          PHA02 VARIABLE   V$PHA01*MH$TYPE(11,PB6)/100   PHASED INSPECTION FLIGHT
00012960  1460                                                  TIME TOLERANCE
00012970  1461          PHA03 VARIABLE   0-V$PHA02
00012980  1462          PHA04 VARIABLE   PB15+1                COLUMN NUMBER - MH$PHAS_
00012990  1463          PMHRW VARIABLE   P926+5                ROW POINTER - MH$PMH_
00013000  1464          PPHAS VARIABLE   1+RN3*PH$TYPE(12,PB6)/1000   NEXT PHASED INSPECTION
00013010  1465          PPKOB FVARIABLE  XF$PPKOB/P823*XF$ARG/100000   POISSON DISTRIBUTION
00013020  1466                                                  VALUE
00013030  1467          PREP1 VARIABLE   BV$PREP1*MH*XH$PREP(2,3)
00013040  1468          PREP2 VARIABLE   BV$PREP2*MH*XH$PREP(V$ORDL,3)
00013050  1469          PREP3 VARIABLE   PH3-PH45              NUMBER OF LAUNCH EVENTS AGO FOR
00013060  1470                                                  PREVIOUS MISSION
00013070  1471          RAN62 VARIABLE   RN2*1000*KN2          6-DIGIT RANDOM NUMBER
00013080  1472          REDIR VARIABLE   MH$COMPL(3,PB5)+1 NR. OF ROWS IN MX$UTIL_ & MX$AWMR_
00013090  1473          REORD FVARIABLE  240*MH$EXEC(12,1)*FN$CEXP     REORDER & SHIPPING DELAY
00013100  1474                                                  FOR CONDEMNED BCM ITEMS
00013110  1475          RESUP FVARIABLE  240*MH$EXEC(6,1)*FN$CEXP*(MX*PH3(PH4,23))/100
00013120  1476                                                  RESUPPLY DELAY
00013130  1477          RINTV VARIABLE   (XH$INTNR+1)*XF$SPINT-XF$BRKPT   REMAINING INTERVAL
00013140  1478          RORDM FVARIABLE  240*MH$EXEC(11,1)      MINIMUM REORDER & SHIPPING
00013150  1479                                                  DELAY FOR CONDEMNED BCM ITEMS
00013160  1480          RSPOT FVARIABLE  MH$COMPL(16,PB5)*FN$CEXP+0.5  RESPOT TIME
00013170  1481          RSJPM VARIABLE   240*MH$EXEC(5,1)  MINIMUM RESUPPLY DELAY
00013180  1482          RTM1  VARIABLE   MH*PH2(PH3,PH4)*XH$RTM2/100   MODIFIED DATA ELEMENT
00013190  1483          RTM2  VARIABLE   MH*PH2(PH3,PB6)*XH$RTM2/100   MODIFIED DATA ELEMENT
00013200  1484          SBSCD VARIABLE   XH$SBSMH*1000*XB$ACSER A/C-SUBSYSTEM CODE
00013210  1485          SBYMN VARIABLE   PB12-PB20             STANDBY A/C NEEDED TO FLY MINIMUM
00013220  1486                                                  MISSION
00013230  1487          SBYMS VARIABLE   PB13-PB20             STANDBY A/C NEEDED TO FULFILL
00013240  1488                                                  MISSION
00013250  1489          SCIRW VARIABLE   PB1+7                 ROW NR. - MH$UPS
00013260  1490          SCISP VARIABLE   MH$UPS(6,PH9)-1       SPLIT COUNT
00013270  1491          SMROW VARIABLE   XB$MTYP+20            ROW NUMBER - MH$TYPE
00013280  1492          SPINT FVARIABLE  1000000/MH$NZSUM(PB6,XB$EVCOL)
00013290  1493                                                  NORMALIZED INTERVAL
00013300  1494          SUPLY FVARIABLE  MH$COMPL(18,PB5)*FN$CEXP+0.5  SUPPLY RESPONSE DELAY
00013310  1495          SYSRO VARIABLE   XF$WRAID/1000000       ROW NUMBER - SYSTEM MX
00013320  1496          TAIL  VARIABLE   100*PB5+XB$WJKK1  A/C TAIL NUMBER
00013330  1497          TCAL1 VARIABLE   10*MH$COMPL(10,PB5)    TIME OF FIRST CALENDAR
00013340  1498                                                  INSPECTION
00013350  1499          TINSTL VARIABLE  PH13-V$TMOV           TIME TO INSTALL
00013360  1500          TPHAS VARIABLE   RN3*V$PHA01/1000+1     FLIGHT TIME UNTIL NEXT
00013370  1501                                                  PHASED INSPECTION
00013380  1502          TPREP VARIABLE   V$TPRP1+V$TPRP2+V$TPRP3       TIME TO PREPARE A/C
00013390  1503          TPRP1 VARIABLE   BV$PREP3*(MH*XH$PREP(1,3))    GROUND CREW INSP. TIME
00013400  1504          TPRP2 VARIABLE   V$PREP1+V$PREP2   AIR CREW/ORDNANCE LOAD TIME
00013410  1505          TPRP3 VARIABLE   BV$CYUPS*BV$MUECK*MH$COMPL(16,PB5)  RESPOT TIME
00013420  1506          TRMOV VARIABLE   PH13/2                TIME TO REMOVE
00013430  1507          TTL   VARIABLE   PF3-C1                TIME UNTIL SCHEDULED LAUNCH
00013440  1508          TTLMC VARIABLE   PH24+V$TPREP          MINIMUM TIME UNTIL A/C CAN BE
00013450  1509                                                  LAUNCHED
00013460  1510          TTLW  VARIABLE   PF6-C1                TIME UNTIL EXPIRATION OF LAUNCH
00013470  1511                                                  WINDOW
00013480  1512          TTLWT VARIABLE   PF7-C1                TIME UNTIL EXPIRATION OF TEMPORARY
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   GPSS/H  VM/370 RELEASE 1.3 (AV162)       16 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF GO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00013490   1513                 *                                  LAUNCH WINDOW
00013500   1514                  TTNL  VARIABLE   XH$LTM2-XH$LTM1          TIME BETWEEN LAUNCH EVENTS
00013510   1515                  TTX   FVARIABLE  MH*PH19(PH20,XB$MTACL)*FN$CEXP*(.5  TTR
12/10/82   1516                  TURNR VARIABLE   PH24*PF17-C1          REMAINING TURNAROUND INSPECTION
12/10/82   1517                 *                                  TIME
00013520   1518                  UPDF1 VARIABLE   XH$UTIME/2             USED IN PAGE UPDF
00013530   1519                  UPDF2 VARIABLE   XH$UTIME-V$UPDF1       USED IN PAGE UPDF
00013540   1520                  UPDF3 VARIABLE   XH$UTIME/XB$NMEDC      USED IN PAGE UPDF
00013550   1521                  UPDF4 FVARIABLE  XH$UTIME/XB$NMEDC/2    USED IN PAGE UPDF
00013560   1522                  UPDF5 VARIABLE   V$UPDF3-V$UPDF4        USED IN PAGE UPDF
00013570   1523                  UPSA1 VARIABLE   PB42*PB5 *PB54*PB58     DISCREPANCIES IN WORK
00013580   1524                  UPSA2 VARIABLE   PB45*PB47*PB49*PB51*PB52*PB53*PB55*PB56*PB57*V$UPSA3
00013590   1525                  UPSA3 VARIABLE   PB59*PB6
00013600   1526                 *                                  SCIR-RELATED DISCREPANCIES NOT
00013610   1527                 *                                  YET RECEIVED, AWP OR AWM
00013620   1528                 *                                  (REASON CODE 1-8)
00013630   1529                  WCORG VARIABLE   33*P818            PH INDEX - WORK CENTER USED
00013640   1530                  WDEXP VARIABLE   MB*PH13(PH8,P81)*PF3    LAUNCH WINDOW EXPIRATION TIME
00013650   1531                  WRACC VARIABLE   XF$WRACD#100)0000+1000000*XB$TALPV A/C-WRA CODE
00013660   1532                  WRACD VARIABLE   XH$WRANR*100*XH$SBSMM*10000000*XB$ACSER A/C-WRA CODE
00013670   1533                  WRAID VARIABLE   PH2*1000*PH1*100000000*PH4      WRA ID
00013680   1534                  WRAMM VARIABLE   XF$WRAID#100)0000/1000          MM INDEX - SUBSYSTEM
00013690   1535                  WRARO VARIABLE   XF$WRAID#100)000001000          ROW NUMBER - SUBSYSTEM
00013700   1536                 *                                  MM
00013710   1537                 *
00013720   1538                 *
00013730   1539                 *
00013740   1540                 ************************************************************************
00013750   1541                 * BOOLEAN VARIABLES
00013760   1542                 ************************************************************************
00013770   1543                 *
00013780   1544                 *                                  CANNIBALIZATION
00013790   1545                  AVALF BVARIABLE  (PB3'E'1)*((PB8'E'2)*MH$COMPL(4,PB5)'E'2) AVAILABLE
00013800   1546                 *                                  FOR FLIGHT
00013810   1547                  AVALM BVARIABLE  (PB35'E'1)*((PB8'E'1)*(MH$COMPL(4,PB5)'E'2)*BV$SMCAP)
00013820   1548                 *                                  AVAILABLE FOR THIS MISSION
00013830   1549                  AVALP BVARIABLE  BV$AVALM*(V$TPREP'L'V$TTLMT)  A/C CAN BE PREPARED
00013840   1550                 *                                  IN TIME FOR THIS MISSION
00013850   1551                  AVALU BVARIABLE  BV$AVALP*BV$NOMRK AVAILABLE A/C IN MAINTENANCE
00013860   1552                  AVALS BVARIABLE  (P824)*BV$AVALP         AVAILABLE AS STANDBY A/C
00013870   1553                  AWCAN BVARIABLE  (PF6'E'XF$CWRA)*(PB29'E'XB$TALV)    REPAIR AWAITING
00013880   1554                 *                                  CANNIBALIZATION (PAGE USEA)
00013890   1555                  CALAV BVARIABLE  (P8)'E'1)*(PB8'LE'3)     AVAILABLE FOR CALENDAR INSP.
00013900   1556                 *
00013910   1557                  CANB1 BVARIABLE  (PB4'NE'XB$TALPV)*(PB3'E'5)*(PB34'GE'1)   REPAIRS AWP
00013920   1558                 *                                  ATTEMPTING TO CANNIBALIZE THIS A/C
00013930   1559                  CANRM BVARIABLE  (PF6'E'XF$NMUCA)*(P84'E'XB$TALNV)   CANNIBALIZATION
00013940   1560                 *                                  ACTION (PAGE USRA)
00013950   1561                  CANVC BVARIABLE  (PB3'NE'XB$TALN))*(PB38'NE'1)*BV$CANVQ
00013960   1562                 *                                  CANNIBALIZATION VICTIM CANDIDATE
00013970   1563                  CANVQ BVARIABLE  BV$CANV1*BV$CANV2*BV$CANV3*BV$CANV4
00013980   1564                 *                                  A/C QUALIFIES AS A CANNIBALIZATION
00013990   1565                 *                                  VICTIM CANDIDATE
00014000   1566                  CANV1 BVARIABLE  PB31'E'2)                A/C IS N4C
00014010   1567                  CANV2 BVARIABLE  V$CANV2'GE'MH$COMPL(6,PB5)     AT LEAST MINIMUM
00014020   1568                 *                                  ALLOWABLE AWP
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00019030  1569                 *                                    DISCREPANCIES
00019040  1570                  CANV3 BVARIABLE  (MH$COMPL(7,PB5)'E'0)*(P#37'LE'MH$COMPL(7,PB5))
00019050  1571                 *                                    AT MOST MAXIMUM ALLOWABLE AWP
00019060  1572                 *                                    DISCREPANCIES
00019070  1573                  CANV4 BVARIABLE  V$CANV4'E'0         NO SCIR-RELATED DISCREPANCIES IN
00019080  1574                 *                                    WORK, NOT YET RECEIVED, OR AWM
00019090  1575                 *                                    (REASON CODE 1-3)
00019100  1576                  CNDEM BVARIABLE  (PB3'E'12)*((PB3'E'11)*(PB29'E'9))  CONDEMNED BCM ITEM
12/10/82  1577                  CORRT BVARIABLE  BV$CORR1*BV$CORR4 POTENTIAL 'CORER' A/C IN TURNAROUND
12/10/82  1578                 *                                    INSPECTION
12/10/82  1579                  CORRU BVARIABLE  BV$CORR1*BV$CORR2*BV$CORR3    POTENTIAL 'CORER' A/C
12/10/82  1580                 *                                    IN UNSCHEDULED MAINT.
00019120  1581                  CORR1 BVARIABLE  PF15'E'0           NOT ALREADY DESIGNATED AS A 'CORER'
00019130  1582                  CORR2 BVARIABLE  V$TTLMC'L'V$TTLWT  REMAINING TTR + PREP TIME LESS THAN
00019140  1583                 *                                    LAUNCH WINDOW EXPIRATION TIME
00019150  1584                  CORR3 BVARIABLE  V$JINW'E'PB29      NO AWM OR AWP DISCREPANCIES
12/10/82  1585                  CORR4 BVARIABLE  V$TURNR'L'V$TTLWT  REMAINING TURNAROUND INSPECTION
12/10/82  1586                 *                                    TIME LESS THAN LAUNCH WINDOW
12/10/82  1587                 *                                    EXPIRATION TIME
00019160  1588                  CYOPS BVARIABLE  MH$CXEC(9,1)'E'1   CYCLIC OPS
00019170  1589                  DAILY BVARIABLE  PF14'LE'V$DALIM*PF11'G'PF14*PF15'G'PF14   PERFORM
00019180  1590                 *                                                  DAILY INSPECTION
00019190  1591                  DAWM  BVARIABLE  (PB10'E'2)*(PB10'E'0)   DISCREPANCY AWM
00019200  1592                  DMST1 BVARIABLE  XH$DMSTA'NE'501*XH$DMSTA'NE'501*AH$DMSTA'NE'501
00019210  1593                  DSCRU BVARIABLE  PB4'E'XB$TALUD*PF9'E'XF$WUCUD UNRESOLVED DISCREPANCY
00019220  1594                  ENDMA BVARIABLE  BV$ENMA1*BV$ENMA2 MAINTENANCE ACTION COMPLETED
00019230  1595                  ENMA1 BVARIABLE  PB21'NE'0          REPAIR SUBTASK COMPLETED
00019240  1596                  ENMA2 BVARIABLE  (PB17'NE'17*PB21'NE'3)*(PB17'L'17*PB21'E'3)
00019250  1597                 *                                    ANOTHER SUBTASK REQUIRED
00019260  1598                  HDECK BVARIABLE  PB34'E'1           A/C IS ON HANGAR DECK
00019270  1599                  ICMA1 BVARIABLE  XB$ICMA1'E'1*CH$ICMA1'E'1     IN-CYCLE MAINTENANCE
00019280  1600                 *                                    IS POSSIBLE
00019290  1601                  INFTD BVARIABLE  (PB4'E'XB$TALNF)*(PB9'E'5)*(PF2'GE'XF$TLAU)
00019300  1602                 *                                    INFLIGHT DISCREPANCY THIS A/C
00019310  1603                  INMNT BVARIABLE  PB9'GE'11*PB9'LE'13     A/C ALREADY IN MAINTENANCE
00019320  1604                  INSRC BVARIABLE  (XB$MID'NE'XB$HLIM)*(XB$MID'NE'XB$LLIM)   WITHIN
00019330  1605                 *                                                  SEARCH LIMITS
00019340  1606                  LIN01 BVARIABLE  (PB4'NE'XB$LIN02)*(PH45'E'XH$LIN31) MAINTENANCE
00019350  1607                 *                                    ACTIONS AWM THIS WORK CENTER
00019360  1608                  MEN1  BVARIABLE  RN7'L'V$MEN2       USED IN V$MEN
00019370  1609                  NICR  BVARIABLE  PR'NE'42           NOT AN IN-CYCLE REPAIR
00019380  1610                  NOWRK BVARIABLE  (V$JINW'E'0)*(V$DAWM'E'0)*(V$DNYR'E'0)*(PB61'E'0)
00019390  1611                 *                                    NO MAINTENANCE CURRENTLY IN PROGRESS
00019400  1612                  ORDLD BVARIABLE  (PH45'E'0)*((PH45'NE'0)*(MH*PH25(V$PMHRM,2)'E'0))
00019410  1613                 *                                    LOAD ORDNANCE THIS A/C
00019420  1614                  PREP1 BVARIABLE  MH*XH$PREP(2,3)'G'MH*XH$PREP(V$ORDL,3)
00019430  1615                 *                                    USED IN V$PREP1
00019440  1616                  PREP2 BVARIABLE  MH*XH$PREP(V$ORDL,3)'GE'MH*XH$PREP(2,3)
00019450  1617                 *                                    USED IN V$PREP2
00019460  1618                  PREP3 BVARIABLE  (PB4)'E'0)*(MP13PF'G'240)      A/C NEEDS GROUND CREW
00019470  1619                 *                                    PREFLIGHT INSPECTION
00019480  1620                  RCNF  BVARIABLE  (PB9'E'4)*(PH45'E'2)     ORDNANCE RECONFIGUATION EVENT
00019490  1621                  RSPF1 BVARIABLE  (PB34'E'1)*(PB9'E'1)     RESPOT TO FLIGHT DECK
00019500  1622                  SDAWM BVARIABLE  (PB34'L'XH$TALWM)*(PH28'NL'0)  SCIR DISCREPANCY AWM
00019510  1623                  SUMDM BVARIABLE  V$DMSUM'G'0        A/C HAS DISCREPANCIES REQUIRING
00019520  1624                 *                                    MAINTENANCE
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       15 DEC 82  10:40:?4    FILE: A7ENCUPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00019530  1625                  SMCAP  BVARIABLE  P$8*LE*MH$TYPE(V$SMRON,P$6)   CAPABLE THIS MISSION
00019540  1626                  SMS1   BVARIABLE  BV*CYUPS*(PH9'NE'MH*PH1C(1,PH9))     NEGATIVE ENTRY
00019550  1627                *                                                      IN AIR PLAN MATRIX
00019560  1628                  SMG2   BVARIABLE  (BV$CYUPS'E'0)*(PH9'E'MH*PH1C(1,PH9))     POSITIVE
00019570  1629                *                                                      ENTRY IN AIR PLAN MATRIX
00019580  1630                  UPDA1  BVARIABLE  (PH31'NE'PH30)*(P811'NE'P810)*(P816'NE'P815)
00019590  1631                *                                          UPDATE SCHR STATISTICS
00019600  1632                  UPDA2  BVARIABLE  (P83'E'1)*(P8H'E'26*P89'E'9)  NO SCHR-RELATED
00019610  1633                *                                          DISCREPANCIES
00019620  1634                  USRA1  BVARIABLE  (PB4'E'X8$TALNO)*(P495'E'XH$WKC)  REPAIR TASK THIS A/C
00019630  1635                *                                           AWM THIS WORK CENTER
00019640  1636                  WMCOD  BVARIABLE  V$CMCOD'E'XB$MISS       WORST DISCREPANCY MISSION CODE
00019650  1637                **********************************************************************
00019660  1638                **********************************************************************
00019670  1639                *
00019680  1640                *
00019690  1641                *
00019700  1642                ***** PAGE INIT - MODEL INITIALIZATION ROUTINE *****
00019710  1643             1    INITA  GENERATE   ,,,1,115,6PB,2PH,1PF     INITIALIZING XACT
00019720  1644             2           SAVEVALUE  CASE+,1,XB          CASE NUMBER FOR STATISTICAL TESTING
00019730  1645             3           ASSIGN     5,MH$EXEC(1,1),PB   NUMBER OF SQUADRONS
00019740  1646             4           ASSIGN     6,MH$EXEC(7,1),PB   NUMBER OF A/C TYPES
00019750  1647             5           TEST E     XB$CASE,1,RSTA      IS THIS THE FIRST CASE
00019760  1648             6    INIT8  SAVEVALUE  CO4PL+,MH$COMPL(3,PB5),XB      A/C COMPLEMENT
00019770  1649             7           LOOP       5PB,INITY           DO FOR ALL SQUADRONS
00019780  1650             8    INITY  SPLIT      1,RTMA,,6PB,3PH     TO PERFORM RUN-TIME MODIFICATIONS
00019790  1651             9           LOOP       6PB,INITY           DO FOR ALL A/C TYPES
00019800  1652            10           PRIORITY   PR,BUFFER           PERFORM ALL RUN-TIME MODIFICATIONS
00019810  1653            11           ASSIGN     6,MH$EXEC(7,1),PB   NUMBER OF A/C TYPES
00019820  1654            12    INITX  SPLIT      1,INITC             TO INITIALIZE SYSTEM MATRICES
00019830  1655            13           LOOP       6PB,INITX           TO FOR ALL A/C TYPES
00019840  1656            14           PRIORITY   PR,BUFFER           COMPLETE SYSTEM MX INITIALIZATION
00019850  1657            15           ASSIGN     6,MH$EXEC(7,1),PB   NUMBER OF A/C TYPES
00019860  1658            16    INITU  ASSIGN     1,11,PB             NUMBER OF ORG. WORK CENTERS
00019870  1659            17           SPLIT      1,INITK             TO INITIALIZE MH$CALI_ OR MH$PHAS_
00019880  1660            19           SPLIT      1,SPDAA,,6PB,4PH,2PF     TO INITIALIZE CUMULATIVE
00019890  1661                       *                                        MAINT. ACTION RATE MATRICES
00019900  1662            19           LOOP       6PB,INITU           DO FOR ALL A/C TYPES
00019910  1663            20           ASSIGN     5,MH$EXEC(1,1),PB   NUMBER OF SQUADRONS
00019920  1664            21    INITZ  SPLIT      1,INITO             TO INITIALIZE MXCU_ MATRICES
00019930  1665            22           SPLIT      1,INITI             TO INITIALIZE SPARES
00019940  1666            23           LOOP       5PB,INITZ           DO FOR ALL SQUADRONS
00019950  1667            24           SPLIT      1,INITN             TO INITIALIZE ORG. MANPOWER
00019960  1668            25           PRIORITY   0,BUFFER            COMPLETE ALL INITIALIZATION
00019970  1669            26           TERMINATE  1
00019980  1670            27    INITN  ASSIGN     5,MH$EXEC(1,1),PB   NUMBER OF SQUADRONS
00019990  1671            28    INITO  ASSIGN     6,MH$COMPL(2,PB5),PB     A/C TYPE THIS SQUADRON
00020000  1672            29           TEST E     MH$TYPE(6,PB6),1,INITK   IS SQUADRON OPERATING UNDER
00020010  1673                       *                                        CALENDAR MAINTENANCE
00020020  1674            30           SPLIT      1,CALAA,,6PB,1PH    CALENDAR MAINTENANCE CONTROL XACT
00020030  1675            31    INITK  LOOP       5PB,INITJ           DO FOR ALL SQUADRONS
00020040  1676            32           TERMINATE  0
00020050  1677            33    INITC  SAVEVALUE  SYSMX,MH$TYPE(2,PB6),XF  SYSTEM MX INDEX
00020060  1678            34           ASSIGN     1,MH$TYPE(1,PB6),PH      NUMBER OF SUBSYSTEMS
00020070  1679            35    INITF  SAVEVALUE  SUBSMH,MX*XH$SYSMX(PH1,2),XH   SUBSYSTEM MH INDEX
00020080  1680            36           ASSIGN     4,0,PB              NUMBER OF COLS TO BE INITIALIZED
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GPSS/H  VM/370 RELEASE 1.0 (AY102)       10 DEC 82  10:40:?4    FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00015090  1691              37         SAVEVALUE  COL,4,XB          STARTING COLUMN NUMBER
00015100  1692              38   INITE ASSIGN     2,MX*XH$SYSMX(PH1,3),PH ROWS IN SUBSYSTEM MATRIX
00015110  1693              39   INITC SAVEVALUE  DATA,MH*XH$SBSMH(PH2,XB$COL),XH     DATA TO BE
00015120  1694                   *                                                    TRANSFERRED
00015130  1695              40         TEST LE    V$INIT1,XH$RTM3,DBG31   IS DATA ELEMENT WITHIN
00015140  1696                   *                                        HALFWORD
00015150  1697              41         MSAVEVALUE XH$SYSMX*,PH1,XB$COL,XH$DATA,MX     ADD DATA TO
00015160  1698                   *                                                    SYSTEM MX RUN
00015170  1699              42         LOOP       2PH,INITD          DO FOR ALL ROWS
00015180  1700              43         ASSIGN     5,MH$EXEC(1,1),PB       NUMBER OF SQUADRONS
00015190  1701              44   INITV TEST E     MH$COMPL(2,PB5),PB6,INITW     IS THIS SQUADRON USING
00015200  1702                   *                                             THIS A/C TYPE
00015210  1703              45         MSAVEVALUE SYSUM*,PB5,XB$COL,MX*XH$SYSMX(PH1,XB$COL),MX
00015220  1704                   *                                        ADD DATA TO MX$SYSUM
00015230  1705              46   INITW LOOP       5PB,INITV          DO FOR ALL SQUADRONS
00015240  1706              47         SAVEVALUE  COL*,1,XB          NEXT COLUMN NUMBER
00015250  1707              48         LOOP       4PB,INITE          DO FOR ALL COLUMNS
00015260  1708              49         SAVEVALUE  SBSMH-,1,XH        DECREMENT SUBSYSTEM MH INDEX
00015270  1709              50         LOOP       1PH,INITF          DO FOR ALL SUBSYSTEM MATRICES
00015280  1710              51         TERMINATE
00015290  1711              52   INITI ASSIGN     6,MH$COMPL(2,PB5),PB    A/C TYPE
00015300  1712              53         SAVEVALUE  SYSMX,MH$TYPE(2,PB6),XF SYSTEM MX INDEX
00015310  1713              54         ASSIGN     1,MH$TYPE(1,PB6),PH      NUMBER OF SUBSYSTEMS
00015320  1714              55   INITJ SAVEVALUE  SBSMH,MX*XH$SYSMX(PH1,2),XH    SUBSYSTEM MH INDEX
00015330  1715              56         ASSIGN     2,MX*XH$SYSMX(PH1,3),PH NR. OF ROWS IN SUBSYSTEM MH
00015340  1716              57   INITT TEST E     MH$COMPL(20,PB5),0,INITP       IS ROW 21 OF MH$COMPL
00015350  1717                   *                                        BEING USED TO DETERMINE INITIALLY
00015360  1718                   *                                        OUTFITTED SPARES COMPLEMENT
00015370  1719              58         SAVEVALUE  INIT1,MH$COMPL(21,PB5),XH     INITIALLY OUTFITTED
00015380  1720                   *                                             SPARES
00015390  1721              59         MSAVEVALUE XH$SBSMH*,PH2,43,XH$INIT1,MH   INITIALLY OUTFITTED
00015400  1722              60   INITS MSAVEVALUE XH$SBSMH*,PH2,44-45,XH$INIT1,MH      SPARES RFI
00015410  1723              61         LOOP       2PH,INITT          DO FOR ALL SUBSYSTEM ROWS
00015420  1724              62         LOOP       1PH,INITJ          DO FOR ALL SUBSYSTEMS
00015430  1725              63         TERMINATE
00015440  1726              64   INITP SAVEVALUE  INIT1,MH*XH$SBSMH(PH2,43),XH  INITIALLY OUTFITTED
00015450  1727                   *                                             SPARES
00015460  1728              65         TRANSFER   ,INITS
00015470  1729              66   INITQ MSAVEVALUE MH$COMPL(1,PB5),PH1,1,FN$INIT1,4X  ORG. W.C. I.D.
00015480  1730              67         LOOP       1PB,INITQ          DO FOR ALL ROWS
00015490  1731              68         TERMINATE
00015500  1732              69   INITK MSAVEVALUE MH$TYPE(7,PB6),PB1,1,FN$INIT1,MH    ORG. W.C. I.D.
00015510  1733              70         LOOP       1PB,INITK          DO FOR ALL ROWS
00015520  1734              71         TERMINATE
00015530  1735                   *
00015540  1736                   *
00015550  1737                   *
00015560  1738                   ***** PAGE RTM - RUN TIME MODIFICATION ROUTINE *****
00015570  1739              72   RTMA  SAVEVALUE  SY*4X,MH$TYPE(2,PB6),XH SYSTEM MX INDEX
00015580  1740              73         ASSIGN     1,MH$TYP (1,PB6),PH      NUMBER OF SUBSYSTEMS
00015590  1741              74         TEST L     MH$TYPE(?,PB6),?,RTMB    IS RUN-TIME MODIFIER OPTION
00015600  1742                   *                                        NOT OPERATIONAL
00015610  1743              75         MSAVEVALUE XH$SYSMX,1-PH1,14-23,100,MX   LOAD MX$SYST_
00015620  1744              76         TERMINATE
00015630  1745              77   RTMB  ASSIGN     2,MX?XH$SYSMX(PH1,?),PH SUBSYSTEM MH INDEX
00015640  1746              78         ASSIGN     1,0,PB             LOOPING PB
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   GPSS/H  VM/37  RELEASE 1.0 (AY142)       10 DEC 82  10:40:34    FILE: A7E4COPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00015650  1737            79           ASSIGN     3,14,PB          STARTING COLUMN - MX$SYST_
00015660  1738            80    RTMG   ASSIGN     4,FN$PTR16,PB    COLUMN NUMBER - SUBSYSTEM MH
00015670  1739            81           TEST L     MX*XH$SYSMX(PH1,PB3),0,RTMI   IS INITIAL VALUE
00015680  1740                       *                                          NEGATIVE
00015690  1741            82           SAVEVALUE  RTM2,0,XH        MX$SYST_ MODIFIER = 0
00015700  1742            83    RTMK   MSAVEVALUE XH$SYSMX,PH1,PB3,XH$RTM2,MX    LOAD MX$SYST_
00015710  1743            84    RTML   ASSIGN     3,4X*XH$SYSMX(PH1,3),PH  NUMBER OF ROWS IN SUBSYSTEM MH
00015720  1744            85           TEST NE    XH$RTM2,100,RTMD  IS THERE A MODIFIER
00015730  1745            86           TEST NE    XH$RTM2,0,RTMC    IS MODIFIER NONZERO
00015740  1746            87    RTMN   SAVEVALUE  RTM1,V$RTM1,MF    MODIFIED DATA ELEMENT
00015750  1747            88           TEST L     XH$RTM2,100,RTMF  IS MODIFIER LESS THAN 100
00015760  1748            89           TEST GE    V$RTM2,5,RTMF     IS ROUNDOFF NEEDED
00015770  1749            90           SAVEVALUE  RTM1+,1,MF        ADD ROUNDOFF
00015780  1750            91    RTMF   TEST LE    MF$RTM1,XH$RTM3,DB63D   IS VALUE NOT GREATER THAN
00015790  1751                       *                                          HALFWORD
00015800  1752                       *          INITIAL    XH$RTM3,32767
00015810  1753            92                    MSAVEVALUE PH2,PH3,PB4,MF$RTM1,MH  MODIFIED DATA ELEMENT
00015820  1754            93                    LOOP       3PH,RTMN          DO FOR ALL ROWS IN SUBSYSTEM MH
00015830  1755            94    RTMD   ASSIGN     3+,1,PB          NEXT COLUMN
00015840  1756            95                    LOOP       1PB,RTMG          DO FOR ALL COLUMNS
00015850  1757            96                    LOOP       1PH,RTMB          DO FOR ALL SUBSYSTEMS
00015860  1758            97                    ASSIGN     1,MH$TYPE(1,PB6),PH     NUMBER OF SUBSYSTEMS
00015870  1759            98    RTMP   ASSIGN     1,2,PB           LOOPING PB
00015880  1760            99                    ASSIGN     3,22,PB          STARTING COLUMN - MX$SYST_
00015890  1761           100    RTMO   TEST L     MX*XH$SYSMX(PH1,PB3),0,RTMH   IS INITIAL VALUE
00015900  1762                       *                                          NEGATIVE
00015910  1763           101                    SAVEVALUE  RTM2,0,XH        MX$SYST_ MODIFIER = 0
00015920  1764           102    RTMM   MSAVEVALUE XH$SYSMX,PH1,PB3,XH$RTM2,MX    LOAD MX$SYST_
00015930  1765           103    RTME   ASSIGN     3+,1,PB          NEXT COLUMN
00015940  1766           104           LOOP       1PB,RTMO          DO FOR ALL COLUMNS
00015950  1767           105           LOOP       1PH,RTMP          DO FOR ALL SUBSYSTEMS
00015960  1768           106           TERMINATE
00015970  1769           107    RTMH   TEST E     MX*XH$SYSMX(PH1,PB3),0,RTME   IS INITIAL VALUE ZERO
00015980  1770           108           SAVEVALUE  RTM2,100,XH       MODIFIER = 100 PERCENT
00015990  1771           109           TRANSFER   ,RTMM
00016000  1772           110           TERMINATE
00016010  1773           111    RTMI   TEST E     MX*XH$SYSMX(PH1,PB3),0,RTMJ   IS INITIAL VALUE ZERO
00016020  1774           112           SAVEVALUE  RTM2,100,XH       MODIFIER = 100 PERCENT
00016030  1775           113           TRANSFER   ,RTMK
00016040  1776           114    RTMJ   SAVEVALUE  RTM2,MX*XH$SYSMX(PH1,PB3),XH  MODIFIER = INITIAL VALUE
00016050  1777           115           TRANSFER   ,RTML
00016060  1778           116    RTMC   MSAVEVALUE PH2,1-PH3,PB4,0,MH      ZERO OUT THIS COLUMN
00016070  1779           117           TRANSFER   ,RTMO
00016080  1780                       *
00016090  1781                       *
00016100  1782                       *
00016110  1783                       ***** PAGE RST - RESTART ROUTINE FOR MULTIPLE RUN STATISTICAL TESTS ****
00016120  1784           118    RSTA   ASSIGN     1,0,PB           RANDOM NUMBER INDEX
00016130  1785           119    RSTB   ASSIGN     1,V$NUMRAN,PF    NUMBER OF RANDOM NUMBER DRAWS
00016140  1786           120    RSTC   SAVEVALUE  RANDOM,RN*PB1,XH   RANDOM NUMBER
00016150  1787           121           LOOP       1PF,RSTC          DO FOR ALL RANDOM NUMBERS
00016160  1788           122           LOOP       1PB,RSTB          DO FOR ALL RANDOM NUMBER GENERATORS
00016170  1789           123    RSTD   SPLIT      1,RSTF            TO CLEAR OUTPUT MATRICES
00016180  1790           124           LOOP       5PB,RSTD          DO FOR ALL SQUADRONS
00016190  1791           125    RSTH   SPLIT      1,RSTI            TO CLEAR ADDITIONAL OUTPUT MATRICES
00016200  1792           126           LOOP       6PF,RSTH          DO FOR ALL A/C TYPES
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   GPSS/H  V9/37J RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCUPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00016210  1793            127          MSAVEVALUE AIMD,1-3,2-9,0,MX       CLEAR AIMD STATISTICS
00016220  1794            128          TRANSFER   ,INITN
00016230  1795            129   RSTE   MSAVEVALUE MH$COMPL(13,PB5),1-18,1-V$MHMC,0,MX CLEAR MISSION
00016240  1796                 *                                            STATISTICS
00016250  1797            130          MSAVEVALUE MH$COMPL(14,PB5),1-V$REDIR,2-13,0,MX  CLEAR
00016260  1798                 *                                 DISCREPANCY/UTILIZATION STATISTICS
00016270  1799            131          MSAVEVALUE MH$COMPL(22,PB5),1-V$REDIR,2-12,0,MX  CLEAR
00016280  1800                 *                                 MISSION CAPABILITY STATISTICS
00016290  1801            132          MSAVEVALUE MH$COMPL(11,PB5),1-17,2-23,0,MX       CLEAR WORK CENTER
00016300  1802                 *                                            STATISTICS
00016310  1803            133          MSAVEVALUE MH$COMPL(15,PB5),1-V$REDIR,2-37,0,MX  CLEAR AMM REASON
00016320  1804                 *                                            STATISTICS
00016330  1805            134          MSAVEVALUE SYSUM,PB5,26-62,0,MX    CLEAR SYSTEM SUMMARY
00016340  1806                 *                                 STATISTICS
00016350  1807            135          MSAVEVALUE MH$COMPL(12,PB5),1-9,2,0,MH   CLEAR INSPECTIONS BY
00016360  1808                 *                                            EVENT STATISTICS
00016370  1809            136          TERMINATE
00016380  1810            137   RST1   SAVEVALUE  RST1,MH$TYPE(2,PB6),XH  SYSTEM MX INDEX
00016390  1811            138          ASSIGN     1,MH$TYPE(3,PB6),PH     NUMBER OF SUBSYSTEM MATRICES
00016400  1812            139          MSAVEVALUE XH$RST1,1-PH1,26-62,0,MX      CLEAR SYSTEM STATISTICS
00016410  1813            140   RSTF   SAVEVALUE  SBSMH,MX*XH$RST1(PH1,2),XH    SUBSYSTEM MH INDEX
00016420  1814            141          ASSIGN     2,MX*XH$RST1(PH1,3),PH  NUMBER OF ROWS IN SUBSYSTEM MH
00016430  1815            142          MSAVEVALUE XH$SBSMH,1-PH2,45-82,0,MH     CLEAR SUBSYSTEM
00016440  1816                 *                                            STATISTICS
00016450  1817            143   RSTG   MSAVEVALUE XH$SBSMH,PH2,44,MH*XH$SBSMH(PH2,43),MH    SPARES
00016460  1818                 *                                            CURRENTLY RFI
00016470  1819            144          MSAVEVALUE XH$SBSMH,PH2,45,MH*XH$SBSMH(PH2,43),MH    MINIMUM
00016480  1820                 *                                                 SPARES RFI
00016490  1821            145          LOOP       2PH,RSTG          DO FOR ALL ROWS
00016500  1822            146          LOOP       1PH,RSTF          DO FOR ALL SUBSYSTEMS
00016510  1823            147          MSAVEVALUE MH$TYPE(3,PB6),1-MH$TYPE(41,PB6),2-8,0,MX CLEAR
00016520  1824                 *                                 SCIR IMPACT STATISTICS
00016530  1825            148          TERMINATE
00016540  1826                 *
00016550  1827                 *
00016560  1828                 *
00016570  1829                 ***** PAGE SPDA - ROUTINE TO INITIALIZE CUMULATIVE MA RATE MATRICES
00016580  1830            149   SPDAA  ADVANCE    1                 COMPLETE ALL INITIALIZATION
00016590  1831            150          GATE LR    SPD 1             LET ONE XACT IN
00016600  1832            151          LOGIC S    SPD 1             CLOSE THE GATE
00016610  1833            152          ASSIGN     5,MH$EXEC(1,1),PB       NUMBER OF SQUADRONS
00016620  1834            153   SPDAD  TEST NE    MH$COMPL(2,PB5),PB6,SPDAN     DOES NOT THIS SQUADRON
00016630  1835                 *                                            USE THIS A/C TYPE
00016640  1836            154          LOOP       5PB,SPDAD         DO FOR ALL SQUADRONS
00016650  1837            155          TRANSFER   ,DBG35
00016660  1838            156   SPDAN  ASSIGN     3,MH$TYPE(2,PB6),PH     SYSTEM MX INDEX
00016670  1839            157          ASSIGN     1,5,PH            NUMBER OF A/C EVENTS
00016680  1840            158   SPDA6  ASSIGN     2,FN$FVCOL,PB     SUBSYSTEM MH COL NR. THIS EVENT
00016690  1841            159          TEST NE    MX$SYSUM(PB5,PB2),0,SPDAI     NONZERO A/C MA PROB.
00016700  1842                 *                                            THIS EVENT
00016710  1843            160          ASSIGN     4,MH$TYPE(1,PB6),PH     NUMBER OF SUBSYSTEMS THIS
00016720  1844                 *                                            A/C TYPE
00016730  1845            161   SPDAC  ASSIGN     1,MX*PH3(PH4,2),PH      SUBSYSTEM MH INDEX
00016740  1846            162          ASSIGN     2,MX*PH3(PH4,3),PH      NUMBER OF ROWS IN SUBSYSTEM MH
00016750  1847            163   SPDAD  TEST NE    MH*PH1(PH2,PH2),0,SPDAE DOES THIS MRA HAVE NONZERO
00016760  1848                 *                                 MA PROBABILITY THIS EVENT
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   GPSS/H  VM/370 RELEASE 1.0 (AY162)       10 DEC 82  10:49:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00016770  1849            154          ASSIGN     1,V$HRATD,PF      HRA ID
 00016780  1850            155          ASSIGN     2,V$NFRTE,PF      NORMALIZED MA RATE
 00016790  1851            156          SPLIT      1,SPDAF,,QPB,QPH,2PF    HRA XACT THIS EVENT
 00016800  1852            157          MSAVEVALUE NZSUM+,P36,PB2,1,MH     COUNT NONZERO HRAS THIS EVENT
 00016810  1853            158  SPDAE   LOOP       2PH,SPDAD         DO FOR ALL RUNS THIS SUBSYSTEM
 00016820  1854            159          LOOP       4PH,SPDAC         DO FOR ALL SUBSYTEMS THIS A/C TYPE
 00016830  1855            170          PRIORITY   100,BUFFER        PROCESS ALL SPLIT XACTS
 00016840  1856            171          SAVEVALUE  EVCOL,PB2,XB      COLUMN NUMBER - A/C EVENT
 00016850  1857            172          SAVEVALUE  CFRMX,V$CFRMX,XH  MX INDEX - CUMULATIVE MAINT. ACTION
 00016860  1858                       *                             RATES
 00016870  1859            173          SAVEVALUE  SPINT,V$SPINT,XF  NORMALIZED INTERVAL WIDTH
 00016880  1860            174          SAVEVALUE  CFROW,1,XH        RESET CUM MA MX ROW NR.
 00016890  1861            175          SAVEVALUE  INTNR,0,XH        RESET INTERVAL NUMBER
 00016900  1862            176  SPDAG   UNLINK     SPD02,SPDAH,1,,,SPDAI   FIRST XACT ON CHAIN
 00016910  1863            177          BUFFER                       PROCESS UNLINKED XACTS
 00016920  1864            178          SAVEVALUE  CFROW+,1,XH       NEXT MX ROW NUMBER
 00016930  1865            179          SAVEVALUE  INTNR+,1,XH       NEXT INTERVAL NUMBER
 00016940  1866            180          TRANSFER   ,SPDAG
 00016950  1867            181  SPDAF   LINK       SPD02,2PF
 00016960  1868            182  SPDAH   TEST NE    CH$SPD02,0,SPDAJ  IS THIS NOT THE LAST XACT ON CHAIN
 00016970  1869            183          SAVEVALUE  BRKPT,V$BRKPT,XF  CALCULATE BREAKPOINT THIS ROW
 00016980  1870            184          MSAVEVALUE XH$CFRMX,XH$CFROW,1,V$BRKPT,MX      ENTER BREAKPOINT
 00016990  1871            185          MSAVEVALUE XH$CFRMX,XH$CFROW,2,PF1,MX    ENTER HRA ID
 00017000  1872            195          TEST E     PF2,XF$SPINT,SPDAK      IS F.R. EXACTLY ONE INTERVAL
 00017010  1873                       *                             WIDTH
 00017020  1874            187          MSAVEVALUE XH$CFRMX,XH$CFROW,3,PF1,MX    HRA ID
 00017030  1875            188  SPDAK   UNLINK     SPD02,SPDAL,1,BACK      LAST XACT ON CHAIN
 00017040  1876            189          TERMINATE
 00017050  1877            190  SPDAI   PRIORITY   115                  RESTORE ORIGINAL PRIORITY
 00017060  1878            191          LOOP       1PB,SPDAB         DO FOR ALL A/C EVENTS
 00017070  1879            192          LOGIC R    SPD01             OPEN THE GATE
 00017080  1880            193          TERMINATE
 00017090  1881            194  SPDAJ   MSAVEVALUE XH$CFRMX,XH$CFROW,1,10000001,MX     ENTER BREAKPOINT
 00017100  1882            195          MSAVEVALUE XH$CFRMX,XH$CFROW,2-3,PF1,MX    ENTER HRA ID
 00017110  1883            196          TERMINATE
 00017120  1884            197  SPDAL   SAVEVALUE  RINTV,V$RINTV,XF  REMAINING INTERVAL THIS ROW
 00017130  1885            198          TEST GE    PF2,XF$RINTV,.0632      IS REMAINING F.R. AT LEAST
 00017140  1886                       *                             ONE INTERVAL
 00017150  1887            199          MSAVEVALUE XH$CFRMX,XH$CFROW,3,PF1,MX    ENTER HRA I.D.
 00017160  1888            200          ASSIGN     2-,XF$RINTV,PF    REDUCE REMAINING F.R.
 00017170  1889            201          TEST G     PF2,0,SPDAM       NONZERO REMAINING F.R.
 00017180  1890            202          LINK       SPD02,2PF
 00017190  1891            203  SPDAM   TEST L     PF2,0,.0633       NON-NEGATIVE REMAINING F.R.
 00017200  1892            204          TERMINATE
 00017210  1893                       *
 00017220  1894                       *
 00017230  1895                       *
 00017240  1896                       ***** PAGE A - AIRCRAFT GENERATION ROUTINE *****
 00017250  1897                       *
 00017260  1898                       *                    AIRCRAFT PARAMETERS
 00017270  1899                       * P33 = XACT IDENT. 1= A/C
 00017280  1900                       * PB4 = A/C SERIAL NUMBER
 00017290  1901                       * PB5 = SQUADRON IDENT.
 00017300  1902                       * P36 = A/C TYPE
 00017310  1903                       * PB7 = LOOPING PARAMETER
 00017320  1904                       * PB8 = CURRENT MISSION CAPABILITY
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   GPSS/H  V4/370 RELEASE 1.0 (AY142)       16 DEC 82  10:40:39    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00017330  1905                *          1 = A
 00017340  1906                *          2 = B
 00017350  1907                *          3 = C
 00017360  1908                *          4 = D
 00017370  1909                *          5 = E
 00017380  1910                *          6 = F
 00017390  1911                *          7 = G
 000174C0  1912                *          8 = H
 00017410  1913                *         10 = J
 00017420  1914                *         11 = K
 00017430  1915                *         12 = L
 00017440  1916                *         26 = Z
 00017450  1917                * PB9 = ACTIVITY
 00017460  1918                *          1 = BETWEEN FLIGHTS (AVAILABLE FOR MISSION CALL)
 00017470  1919                *          2 = PREFLIGHT INSPECTION (GROUND CREW)
 00017480  1920                *          3 = AIRCREW INSPECTION
 00017490  1921                *          4 = ORDNANCE LOADING
 00017500  1922                *          5 = IN FLIGHT
 00017510  1923                *          6 = TURNAROUND INSPECTION
 00017520  1924                *          8 = DAILY INSPECTION
 00017530  1925                *          9 = CALENDAR/PHASED INSPECTION
 00017540  1926                *          11 = UNSCHEDULED MAINTENANCE
 00017550  1927                *          15 = SELECTED FOR MISSION
* 12/10/82  1928                * PB10 = IN-MAINTENANCE FLAG.
* 12/10/82  1929                *       0 = RESET WHEN NEW NEED FOR UNSCHEDULED MAINTENANCE OCCURS
* 12/10/82  1930                *       1 = SET WHEN A/C ENTERS UNSCHEDULED MAINTENANCE FOLLOWING RESET
* 12/10/82  1931                *        ADD        1879
* 12/10/82  1932                * FF17 = TIME LAST LINE INSPECTION BEGAN/RESUMED
 00017570  1933                * PB11 = ORDNANCE LOAD FLAG
 00017580  1934                *       0 = DO NOT LOAD OR RECONFIGURE
 00017590  1935                *       1 = LOAD ORDNANCE
 00017600  1936                *       2 = RECONFIGURE ORDNANCE
 00017610  1937                * PB14 = IN-CYCLE MAINTENANCE FLAG
 00017620  1938                * PB15 = NEXT PHASED INSPECTION DUE
 00017630  1939                * PB16 = SCHEDULED MISSION TYPE
 00017640  1940                * PB17 = NOT USED
 00017650  1941                * PB18 = SCHEDULED MISSION PRIORITY
 00017660  1942                * PB19 = NOT USED
 00017670  1943                * PB20 = SCHEDULED MISSION DURATION
 00017680  1944                * PB21 = A/C SEQUENCE NUMBER THIS SQUADRON
 00017690  1945                * PB22 = MAINTENANCE PRIORITY
 000176A0  1946                * PB23 = SYSTEM/SUBSYSTEM MATRIX COLUMN - MAINTENANCE ACTION PROBABILITY
 000176B0  1947                *        BY WHEN DISCOVERED)
 000176C0  1948                * PB24 = PREVIOUSLY STANDBY INDICATOR (PB24=1)
 000176D0  1949                * PB25 = PRESENTLY STANDBY INDICATOR (PB25=1)
 000176E0  1950                * PB26 = PREVIOUS MISSION TYPE
 000176F0  1951                * PB27 = MISSION ABORT INDICATOR
 00017700  1952                * PB28 = NEW DISCREPANCY INDICATOR
 00017710  1953                * PB29 = TOTAL CURRENT DISCREPANCIES THIS A/C
 00017720  1954                * PB30 = LAST INSPECTION EVENT
 00017730  1955                * PB31 = NEW MISSION CAPABILITY CODE
 00017740  1956                * PB32 = A/C LOCATION (CYCLIC OPS ONLY)
 00017750  1957                *          1 = HANGAR DECK
 00017760  1958                *          2 = FLIGHT DECK
 00017770  1959                *          3 = FLIGHT DECK MAINTENANCE SPOT
 00017780  1960                *          4 = RESPOT IN PROGRESS
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   GPSS/H  VM/370 RELEASE 1.0 (AY102)       10 DEC 82  19:40:34    FILE: A7ENCUPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0001785C  1961                 * PB35 = REPAIR LOCATION (CYCLIC OPS ONLY)
0001786C  1962                 *        1 = HANGAR DECK
0001787C  1963                 *        2 = EITHER HANGAR OR FLIGHT DECK
0001788C  1964                 * PB36 = POST-MAINTENANCE CHECK FLIGHT INDICATOR
0001789C  1965                 * PB37 = DISCREPANCIES AWP THIS A/C
0001790C  1966                 * PB38 = CALENDAR INSPECTION FLAG
0001791C  1967                 *        1 = DUE FOR CALENDAR INSPECTION
0001792C  1968                 *        2 = AWAITING RESPOT
0001793C  1969                 *        3 = INSPECTION IN PROGRESS
0001794C  1970                 * PB39 = MISSION CAPABILITY PRIOR TO SCHEDULED INSPECTION
0001795C  1971                 * PB40 = GROUND CREW INSPECTION FLAG
0001796C  1972                 *      PB40 = 1 - GROUND CREW PREFLIGHT NOT NEEDED
0001797C  1973                 * PB41 = NUMBER OF NO-SCIR-IMPACT DISCREPANCIES NOT YET RECEIVED
0001798C  1974                 * PB42 = NUMBER OF NO-SCIR-IMPACT DISCREPANCIES IN WORK
0001799C  1975                 * PB43 = NUMBER OF NO-SCIR-IMPACT DISCREPANCIES AWM (REASON CODE 1-8)
00018000  1976                 * PB44 = NUMBER OF NO-SCIR-IMPACT DISCREPANCIES AWP
0001801C  1977                 * PB45 = NUMBER OF ADJ DISCREPANCIES NOT YET RECEIVED
0001802C  1978                 * PB46 = NOT USED
0001803C  1979                 * PB47 = NUMBER OF ADJ DISCREPANCIES AWM (REASON CODE 1-8)
0001804C  1980                 * PB48 = NOT USED
0001805C  1981                 * PB49 = NUMBER OF FMC DISCREPANCIES NOT YET RECEIVED
00018060  1982                 * PB50 = NUMBER OF FMC DISCREPANCIES IN WORK
0001807C  1983                 * PB51 = NUMBER OF FMC DISCREPANCIES AWM (REASON CODE 1-8)
0001808C  1984                 * PB52 = NUMBER OF FMC DISCREPANCIES AWP
00018090  1985                 * PB53 = NUMBER OF PMC DISCREPANCIES NOT YET RECEIVED
0001810C  1986                 * PB54 = NUMBER OF PMC DISCREPANCIES IN WORK
0001811C  1987                 * PB55 = NUMBER OF PMC DISCREPANCIES AWM (REASON CODE 1-8)
0001812C  1988                 * PB56 = NUMBER OF PMC DISCREPANCIES AWP
00018130  1989                 * PB57 = NUMBER OF NMC DISCREPANCIES NOT YET RECEIVED
00018140  1990                 * PB58 = NUMBER OF NMC DISCREPANCIES IN WORK
0001815C  1991                 * PB59 = NUMBER OF NMC DISCREPANCIES AWM (REASON CODE 1-8)
00018160  1992                 * PB60 = NUMBER OF NMC DISCREPANCIES AWP
0001817C  1993                 * PB61 = NUMBER OF REPAIRS AWAITING CANNIBALIZED NRAS
0001818C  1994                 *
00018190  1995                 * PH3 = MX INDEX - SYSTEM
0001820C  1996                 * PH4 = ROW NUMBER - SYSTEM MX
0001821C  1997                 * PH5 = A/C TAIL NUMBER
0001822C  1998                 * PH6 = BLOCK I.D. - SUBROUTINE TRANSFER
0001823C  1999                 * PH7 = CHAIN INDEX - A/C NOT IN MAINTENANCE
0001824C  2000                 * PH8 = SCHEDULED LAUNCH EVENT SEQUENCE NUMBER THIS DAY
0001825C  2001                 * PH9 = COLUMN NUMBER - MH$UPS
0001826C  2002                 * PH10 = MH INDEX - LAUNCH TIME MATRIX
0001827C  2003                 * PH11 = BLOCK I.D. - SUBROUTINE TRANSFER
0001828C  2004                 * PH12 = MX INDEX - ORGANIZATIONAL WORK CENTER STATISTICS (MX$WKCD_)
0001829C  2005                 * PH13 = MH INDEX - INSPECTIONS BY EVENT
000182AC  2006                 * PH14 = MX INDEX - MISSION STATISTICS
000182BC  2007                 * PH15 = MX INDEX - A/C UTILIZATION SUMMARY
000182CC  2008                 * PH16 = BLOCK I.D. - SUBROUTINE TRANSFER
000182DC  2009                 * PH17 = MANPOWER REQUIREMENTS (X10)
000182EC  2010                 * PH18 = RESET TIME
000182FC  2011                 * PH19 = SUBSYSTEM MH INDEX
0001830C  2012                 * PH20 = NRA NUMBER (SUBSYSTEM MH ROW)
0001831C  2013                 * PH21 = QUEUE/STORAGE INDEX - EVENT
0001832C  2014                 * PH22 = SCHEDULED MISSION HOLDING CHAIN INDEX
0001833C  2015                 * PH23 = MX INDEX - AWM REASON SUMMARY
0001834C  2016                 * PH24 = ORGANIZATIONAL LEVEL TIME TO REPAIR, INSPECT, OR PREPARE A/C
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   GPSS/H  V4/370 RELEASE 1.0 (AY142)       15 DEC 82  10:40:3 M    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00018410  2017                 * PH25 = MH INDEX - A/C PREPARATION & INSPECTION
 00018420  2018                 * PH26 = CHAIN INDEX - A/C IN MAINTENANCE
 00018430  2019                 * PH27 = GROUP INDEX - CURRENT DISCREPANCIES THIS SQUADRON
 00018440  2020                 * PH28 = CHAIN INDEX - CURRENT DISCREPANCIES THIS SQUADRON
 00018450  2021                 * PH29 = CHAIN INDEX - REPAIRS IN WORK THIS SQUADRON
 00018460  2022                 * PH30 = CHAIN INDEX - REPAIRS AWM THIS SQUADRON
 00018470  2023                 * PH31 = CHAIN INDEX - REPAIRS AWP THIS SQUADRON
 00018480  2024                 * PH32 = CHAIN INDEX - DEFERRED REPAIRS THIS SQUADRON
 00018490  2025                 * PH33 = BLOCK I.D. - SUBROUTINE TRANSFER
 00018500  2026                 * PH34 = GROUP INDEX - A/C IN MAINTENANCE
 00018510  2027                 * PH35 = BLOCK I.D. - UNLINK DESTINATION
 00018520  2028                 * PH36 = MH INDEX - CALENDAR OR PHASED INSPECTION DEFINITION
 00018530  2029                 * PH37 = FLIGHT TIME UNTIL NEXT PHASED INSPECTION DUE
 00018540  2030                 * PH38 = MX INDEX - SCIR IMPACT SUMMARY BY EOC
 00018550  2031                 * PH39 = MB INDEX - DAILY AIR PLAN
 00018560  2032                 * PH40 = SCHEDULED MAINTENANCE DURATION
 00018570  2033                 * PH41 = PRIMARY WORK CENTER I.D.
 00018580  2034                 * PH42 = QUEUE/STORAGE INDEX - WORK CENTER
 00018590  2035                 * PH43 = BLOCK I.D. - TRANSFER
 00018600  2036                 * PH44 = MX INDEX - SCIR MISSION CAPABILITY SUMMARY
 00018610  2037                 * PH45 = SCHEDULED OR STANDBY MISSION LAUNCH EVENT A/C PREPARED FOR BUT
 00018620  2038                 *       NOT LAUNCHED
 00018630  2039                 *
 00018640  2040                 * PF3 = SCHEDULED LAUNCH TIME
 00018650  2041                 * PF4 = LAUNCH SERIAL NUMBER
 00018660  2042                 * PF5 = MISSION SERIAL NUMBER
 00018670  2043                 * PF6 = LAUNCH WINDOW EXPIRATION TIME
 00018680  2044                 * PF7 = TEMPORARY LAUNCH WINDOW EXPIRATION TIME
 00018690  2045                 * PF8 = TIME STATUS LAST UPDATED
 00018700  2046                 * PF9 = TIME SCIR STATISTICS LAST UPDATED
 00018710  2047                 * PF10 = TIME LAST LAUNCHED
 00018720  2048                 * PF11 = TIME LAST LANDED
 00018730  2049                 * PF12 = TIME A/C LAST BECAME NOT MISSION CAPABLE
 00018740  2050                 * PF13 = TIME LAST GROUND CREW TURNAROUND OR PREFLIGHT INSPECTION
 00018750  2051                 *         COMPLETED
 00018760  2052                 * PF14 = TIME LAST DAILY INSPECTION COMPLETED
 00018770  2053                 * PF15 = TIME MAINTENANCE LAST COMPLETED
 00018780  2054                 * PF16 = 'OWNER' A/C DESIGNATED MISSION SERIAL NUMBER
 00018790  2055                 ********************************************************************************
*12/10/82  2056          235    AAA   GENERATE   ,,,,9J,17PF,45PH,61P8   INITIAL A/C COMPLEMENT
 00018810  2057          235          GATE LR    ACGEN                   A/C GENERATION GATE
 00018820  2058          237          ASSIGN     3,1,PB                  XACT IDENT
 00018830  2059          238          JOIN       ACRFT                   A/C GROUP
 00018840  2060          239          ASSIGN     4,N$AAA,PB              A/C SERIAL NUMBER
 00018850  2061          210          TEST E     P4,X$COMPL,AAE          THIS IS THE LAST A/C IN COMPLEMENT
 00018860  2062          211          LOGIC S    ACGEN                   CLOSE A/C GENERATION GATE
 00018870  2063          212    AAE   LINK       WORK1,FIFO              TEMPORARY CHAIN
 00018880  2064          213    AAB   GENERATE   ,,,1,8,,1PB             CONTROL XACT
 00018890  2065          214          ASSIGN     1,MH$EXEC(1,1),PB       NR. OF SQUADRONS (LOOPING PARM)
 00018900  2066          215    AAD   SAVEVALUE  SQDRN+,1,XB              SQUADRON NUMBER
 00018910  2067          216          UNLINK     WORK1,AAC,MH$COMPL(3,X$SQDRN)  A/C THIS SQUADRON
 00018920  2068          217          SAVEVALUE  WORK1,0,XB               RESET
 00018930  2069          218          BUFFER                             PROCESS UNLINKED XACTS
 00018940  2070          219          LOOP       1PB,AAD                 REPEAT FOR NEXT SQUADRON
 00018950  2071          220          TERMINATE
 00018960  2072          221    AAC   ASSIGN     5,X$SQDRN,P9            SQUADRON IDENT
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GPSS/H  V8/37  RELEASE 1.3 (AY192)      15 DEC 82  10:40:34    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00018970  2073          222           ASSIGN     6,MH$COMPL(2,PB5),PB     A/C TYPE
00018980  2074          223           ASSIGN     3,MH$TYPE(2,PB6),PH      MX INDEX - SYSTEM
00018990  2075          224           SAVEVALUE  WORK1+,1,XB              COUNT A/C THIS SQUADRON
000189A0  2076          225           ASSIGN     21,X$WORK1,PB            A/C SEQUENCE NUMBER THIS SQUADRON
000189B0  2077          226           ASSIGN     5,V$TAIL,PH              A/C TAIL NUMBER
000189C0  2078          227           JOIN       MH$GRP(6,PB5)            A/C TYPE
000189D0  2079          228           JOIN       MH$GRP(7,PB5)            A/C SQUADRON
000189E0  2080          229           TEST E     BV$CYUPS,1,AAM           CYCLIC OPS
000189F0  2081          230           ASSIGN     10,LTIMC,PH              MH INDEX - LAUNCH TIMES
00018A00  2082          231   AAI     ASSIGN     12,MH$COMPL(11,PB5),PH   MX INDEX - ORG. WORK CENTER
00018A10  2083                *                                           STATISTICS
00018A20  2084          232           ASSIGN     13,MH$COMPL(12,PB5),PH   MH INDEX - INSPECTIONS BY
00018A30  2085                *                                           EVENT
00018A40  2086          233           ASSIGN     14,MH$COMPL(13,PB5),PH   MH INDEX - MISSION STATISTICS
00018A50  2087          234           ASSIGN     15,MH$COMPL(14,PB5),PH   MX INDEX - UTILIZATION
00018A60  2088                *                                           STATISTICS
00018A70  2089          235           MSAVEVALUE PH15,PB21,1,PH5,MX       ENTER TAIL NR. INTO MX$UTIL_
00018A80  2090          236           ASSIGN     23,MH$COMPL(15,PB5),PH   MX INDEX - AWM REASON SUMMARY
00018A90  2091          237           MSAVEVALUE PH23,PB21,1,PH5,MX       ENTER TAIL NUMBER INTO MX$AWMR
00018AA0  2092          238           ASSIGN     39,MH$TYPE(3,PB6),PH     MX INDEX - SCIR IMPACT SUMMARY
00018AB0  2093          239           ASSIGN     44,MH$COMPL(22,PB5),PH   MX INDEX - SCIR MISSION
00018AC0  2094                *                                           CAPABILITY SUMMARY
00018AD0  2095          240           MSAVEVALUE PH44,PB21,1,PH5,MX       ENTER TAIL NR. INTO MX$MCAP_
00018AE0  2096          241           ASSIGN     7,MH$CHA(6,PB5),PH       CHAIN INDEX - A/C NOT IN
00018AF0  2097                *                                           MAINTENANCE
00018B00  2098          242           ASSIGN     25,MH$TYPE(4,PB6),PH     MH INDEX - A/C PREP. & INSP.
00018B10  2099          243           ASSIGN     26,MH$CHA(2,PB5),PH      CHAIN INDEX - A/C IN
00018B20  2100                *                                           MAINTENANCE
00018B30  2101          244           ASSIGN     27,MH$GRP(1,PB5),PH      GROUP INDEX - CURRENT
00018B40  2102                *                                           DISCREPANCIES THIS SQUADRON
00018B50  2103          245           ASSIGN     28,MH$CHA(1,PB5),PH      CHAIN INDEX - CURRENT
00018B60  2104                *                                           DISCREPANCIES THIS SQUADRON
00018B70  2105          246           ASSIGN     29,MH$CHA(9,PB5),PH      CHAIN INDEX - REPAIRS IN WORK
00018B80  2106          247           ASSIGN     30,MH$CHA(12,PB5),PH     CHAIN INDEX - REPAIRS AWM
00018B90  2107          248           ASSIGN     31,MH$CHA(10,PB5),PH     CHAIN INDEX - REPAIRS AMP
00018BA0  2108          249           ASSIGN     32,MH$CHA(11,PB5),PH     CHAIN INDEX - DEFERRED REPAIRS
00018BB0  2109          250           ASSIGN     34,MH$GRP(2,PB5),PH      GROUP INDEX - A/C IN
00018BC0  2110                *                                           MAINTENANCE
00018BD0  2111          251           ASSIGN     11,V$UALIM,PF       INITIALIZE
00018BE0  2112          252           ASSIGN     14-15,V$JALIM,PF    INITIALIZE
00018BF0  2113          253           JOIN       MH$GRP(9,PB5)       DPC A/C
00018C00  2114          254           ASSIGN     8,1,PB              SET MISSION CAPABILITY = A (DPC)
00018C10  2115          255           MSAVEVALUE PH44,PB4,13,1,MX    UPDATE MX$MCAP_
00018C20  2116          256           ASSIGN     9,1,PH              A/C IS AVAILABLE FOR LAUNCH
00018C30  2117          257           ASSIGN     36,MH$TYPE(7,PB6),PH     MH INDEX - CALENDAR OR PHASED
00018C40  2118                *                                           INSPECTION
00018C50  2119          258           TEST E     MH$TYPE(5,PB6),2,AAF     OPERATING UNDER PHASED MAINT.
00018C60  2120          259           ASSIGN     37,V$TPHAS,PH       FLIGHT TIME UNTIL NEXT PHASED INSP.
00018C70  2121          260           ASSIGN     15,V$PPHAS,PB       NEXT PHASED INSPECTION DUE
00018C80  2122          261   AAF     TEST E     BV$CYUPS,1,AAJ      CYCLIC OPS
00018C90  2123          262           GATE SNF   MH$STO(41,PB5),AAG       IS HANGAR DECK SPACE AVAILABLE
00018CA0  2124          263           ENTER      MH$STO(41,PB5)      GET HANGAR DECK SPACE
00018CB0  2125          264           ASSIGN     34,1,PB             LOCATION = HANGAR DECK
00018CC0  2126          265   AAJ     LINK       PH7,UPH             A/C NOT IN MAINTENANCE
00018CD0  2127          266   AAG     ASSIGN     34,2,PB             LOCATION = FLIGHT DECK
00018CE0  2128          267           LINK       PH7,UPB             A/C NOT IN MAINTENANCE
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:34    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00019530  2129          259   AAH   ASSIGN     10,MH$COMPL(23,PB5),PH  MM INDEX - LAUNCH TIMES
00019540  2130          259         TRANSFER   ,AAI
00019550  2131                *
00019560  2132                *
00019570  2133                *
00019580  2134                ***** PAGE APLA - DAILY AIR PLAN ROUTINE *****
00019590  2135          270   APLAA GENERATE   ,,1,1,105,6PH,11PH,2PF  CONTROL XACT
00019600  2136          271         ASSIGN     3,2,PB                IDENT. PB3=2 = SCHEDULING XACT
00019610  2137          272         TEST L     BV$CYOPS,1,APLAB      CYCLIC OPS
00019620  2138          273         ASSIGN     10,LTIME,PH           MM INDEX - LAUNCH TIMES
00019630  2139          274   APLAC SAVEVALUE  ADMM,PH1 ,XH          MM INDEX - LAUNCH TIMES
00019640  2140          275         SAVEVALUE  ADROW,2,XH            ROW NUMBER - 1ST LAUNCH
00019650  2141          276         TRANSFER   SBR,ADVCA,6PH         DETERMINE TIME OF FIRST LAUNCH
00019660  2142          277         ASSIGN     9,XH$ADCOL,PH         COLUMN NUMBER - MH$OPS
00019670  2143          278         ASSIGN     2,V$LNCT1,PF          TIME OF FIRST LAUNCH
00019680  2144          279         SPLIT      1,APLAD               AIR PLAN XACT
00019690  2145          280         ADVANCE    XH$ADVNC              TIME OF FIRST LAUNCH
00019700  2146          281         TRANSFER   ,APLAC
00019710  2147          282   APLAB ASSIGN     5,XH$NEG1,PB          TO SERIALIZE SPLIT XACTS
00019720  2148          283         SPLIT      MH$EXEC(1,1),APLAE,SPB  ONE XACT PER SQUADRON
00019730  2149          284         TERMINATE
00019740  2150          285   APLAC ASSIGN     10,MH$COMPL(23,PB5),PH  MM INDEX - LAUNCH TIME
00019750  2151          286         TRANSFER   ,APLAC
00019760  2152          287   APLAD TEST L     BV$CYOPS,1,APLAF      CYCLIC OPS
00019770  2153          288         GATE LR    APLC                  LET 1 XACT IN
00019780  2154          289         LOGIC S    APLC                  CLOSE THE GATE
00019790  2155          290         PRIORITY   75
00019800  2156          291         ASSIGN     5,AB$NEG1,PB          TO SERIALIZE SPLIT XACTS
00019810  2157          292         SPLIT      MH$EXEC(1,1),APLAG,SPB  ONE XACT PER SQUADRON
00019820  2158          293         ADVANCE    V$FLTQ                CALL FLIGHT QUARTERS
00019830  2159          294         LOGIC S    FLTQ                  FLIGHT QUARTERS
00019840  2160          295         LOGIC S    RSPMQ                 OK TO RESPOT A/C
00019850  2161          296         UNLINK     SPOTQ,APLAI,ALL       A/C AWAITNG RESPOT
00019860  2162          297   APLAH ADVANCE    V$LNC1                1ST LAUNCH EVENT
00019870  2163          298         ASSIGN     8,1,PH                1ST LAUNCH EVENT
00019880  2164          299   APLAJ TEST L     PH8,4H*PH10(1,PH9),APLAK IS THIS NOT THE LAST LAUNCH
00019890  2165          300         SAVEVALUE  ADROW,V$LROW,XH       ROW NUMBER - LAUNCH TIME MM
00019900  2166          301         TRANSFER   SBR,T8LA,11PH         DETERMINE TIME TO NEXT LAUNCH EVENT
00019910  2167          302         ASSIGN     8+,1,PH               NEXT LAUNCH EVENT NUMBER
00019920  2168          303         ADVANCE    XH$T8L                TIME OF NEXT LAUNCH
00019930  2169          304         TRANSFER   ,APLAJ
00019940  2170          305   APLAI TRANSFER   PH,11
00019950  2171          306   APLAF GATE LR    PB5                   LET ONE XACT IN
00019960  2172          307         LOGIC S    PB5                   CLOSE THE GATE
00019970  2173          308         PRIORITY   75
00019980  2174          309   APLAG ADVANCE    V$CALL1               CALL DAILY INSPECTION
• 12/10/82 2175          310         SPLIT      1,SMGA,,22PB,14PH,6PF   MISSION SCHEDULING XACT
00020000  2176          311         SPLIT      1,DAILA,,6PB,1PH        DAILY INSPECTION XACT
00020010  2177          312         TEST L     BV$CYOPS,1,APLAH      CYCLIC OPS
00020020  2178          313         TERMINATE
00020030  2179          314   APLAK ADVANCE    1                     WAIT ONE CLOCK UNIT
00020040  2180          315         TEST E     BV$CYOPS,1,APLAM      CYCLIC OPS
00020050  2181          316         LOGIC R    APLC                  OPEN THE GATE
00020060  2182          317         ASSIGN     5,XH$NEG1,PB          TO SERIALIZE SPLIT XACTS
00020070  2183          318         SPLIT      MH$EXEC(1,1),APLAD,SPB  TO SEND MISSION CAPABLE A/C
00020080  2184                *                                      WITH DISCREPANCIES TO UNSCHEDULED
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   GPSS/H  V4/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00020090  2185                 *                                  MAINTENANCE
00020100  2186           319          GATE SE    AIR              WAIT UNTIL FINAL RECOVERY
00020110  2187           320          PRIORITY   1,1              RAISE PRIORITY
00020120  2188           321          ADVANCE    MH$EXEC(10,1)    SECURE FROM FLIGHT QUARTERS
00020130  2189           322          LOGIC R    FLTQ             SECURE FROM FLIGHT QUARTERS
00020140  2190           323          LOGIC R    RSPMQ            NO MORE RESPOT
00020150  2191           324          ALTER      ACRFT,ALL,45PM,0 RESET
00020160  2192           325          TERMINATE
00020170  2193           326   APLAM  LOGIC R    PB5              OPEN THE GATE
00020180  2194           327   APLAQ  ASSIGN     6,MH$COMPL(2,PB5),PB    A/C TYPE THIS SQUDRON
00020190  2195           328          PRIORITY   0,BUFFER          PROCESS ALL OTHER XACTS
00020200  2196           329          UNLINK     MH$CHA(6,PB5),USAAA,ALL,BV$SENDM    SEND FMC AND PMC
00020210  2197                 *                                  A/C HAVING DISCREPANCIES REQUIRING
00020220  2198                 *                                  MAINTENANCE TO UNSCHEDULED
00020230  2199                 *                                  MAINTENANCE
00020240  2200           330          TEST E     MH$TYPE(6,PB6),2,APLAP          OPERATING UNDER PHASED
00020250  2201                 *                                  MAINTENANCE
00020260  2202           331          UNLINK     MH$CHA(6,PB5),APLAQ,ALL CHECK FOR PHASED INSP. DUE
00020270  2203           332   APLAP  ALTER      MH$GRP(7,PB5),ALL,45PM,0        RESET
00020280  2204           333          TERMINATE
00020290  2205           334   APLAW  TRANSFER   SBR,PHAAA,16PM    CHECK FOR PHASED INSPECTION DUE
00020300  2206           335          LINK       PH7,9PB          A/C NOT IN MAINTENANCE
00020310  2207                 *
00020320  2208                 *
00020330  2209                 *
00020340  2210                 ***** PAGE DAIL - DAILY INSPECTION ROUTINE *****
00020350  2211           336   DAILA  ASSIGN     6,MH$COMPL(2,PB5),PB    A/C TYPE THIS SQUDRON
00020360  2212           337          ASSIGN     1,MH$CHA(6,PB5),PH       CHAIN INDEX - A/C NOT IN
00020370  2213                 *                                  MAINTENANCE
00020380  2214           338          SAVEVALUE  DALIM,V$DALIM,XF  DAILY INSPECTION NON-FLYING LIMIT
00020390  2215           339          UNLINK     PH1,DAILB,ALL,BV$DAILY  A/C REQUIRING DAILY INSP.
00020400  2216           340          TERMINATE
00020410  2217           341   DAILB  ASSIGN     9,3,PB           ACTIVITY = DAILY INSPECTION
00020420  2218           342          MARK       14PF             TIME LAST DAILY INSPECTION COMPLETED
00020430  2219           343          TRANSFER   SBR,LINA,11PM     PERFORM INSPECTION
00020440  2220           344          ASSIGN     23,6,PB          SYSTEM/SUBSYSTEM MATRIX COL. - WHEN
00020450  2221                 *                                  DISCOVERED = DAILY INSPECTION
00020460  2222           345          TRANSFER   SBR,DISAA,11PM   TEST FOR DISCREPANCIES
00020470  2223           346          ASSIGN     30,8,PB          LAST INSPECTION = DAILY
00020480  2224           347          TEST E     PH29,0,DAILC     ARE THERE NO NEW DISCREPANCIES
00020490  2225           348   DAILF  TEST E     BV$CYOPS,1,DAILD CYCLIC OPS
00020500  2226           349          TEST E     P334,1,DAILD     IS A/C ON HANGAR DECK
00020510  2227           350          GATE LS    RSPMQ,DAILD      OK TO RESPOT A/C
12/10/82  2228           351          ASSIGN     14,V$RSPOT,PH    RESPOT TIME
00020520  2229           352          TRANSFER   SBR,RSPFA,11PM   RESPOT TO FLIGHT DECK
00020530  2230           353   DAILD  ASSIGN     9,1,PH           ACTIVITY = AVAILABLE FOR MISSION
00020540  2231                 *                                  CALL
00020550  2232           354          LINK       PH7,9PB          A/C NOT IN MAINTENANCE
00020560  2233           355   DAILC  TRANSFER   SBR,JPUAA,16PM   UPDATE SCIR STATISTICS
00020570  2234           356          TEST NE    P331,P66,DAILF   DID A/C MISSION CAPABILITY CHANGE
00020580  2235           357          TRANSFER   SBR,CHMCA,16PM   UPDATE A/C MISSION CAPABILITY
00020590  2236           358          TEST NE    BV$AVALF,1,DAILF IS A/C NOT AVAILABLE FOR FLIGHT
00020600  2237           359          TRANSFER   ,USAAA
00020610  2238                 *
00020620  2239                 *
00020630  2240                 *
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GPSS/H  VM/370 RELEASE 1.0 (AY162)       10 DEC 82  10:46:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00020640   2241                    ****** PAGE SMG - SCHEDULED MISSION ROUTINE *****
 00020650   2242                    *
 00020660   2243                    *                    MISSION PARAMETERS
 00020670   2244                    * PB3 = XACT IDENT.
 00020680   2245                    *        2 = MISSION CALLING
 00020690   2246                    *        3 = STANDBY A/C CALLING
 00020700   2247                    * PB4 = NUMBER OF SQUADRONS
 00020710   2248                    * PB5 = SQUADRON IDENT.
 00020720   2249                    * PB6 = A/C TYPE
 00020730   2250                    * PB7 = LOOPING PARAMETER
 00020740   2251                    * PB8 = LOWEST PRIORITY MISSION FLAG
 00020750   2252                    * PB9 = MISSION PRIORITY. 1=LOWEST, 5=HIGHEST
 00020760   2253                    * PB10 = NUMBER OF ALERT A/C (LOOPING PARAMETER)
 00020770   2254                    * PB11 = NUMBER OF STANDBY A/C (LOOPING PARAMETER)
 00020780   2255                    * PB12 = MINIMUM NUMBER OF A/C NEEDED TO AVOID MISSION CANCELLATION
 00020790   2256                    * PB13 = MISSION DURATION (LAUNCH CYCLES)
 00020800   2257                    * PB14 = CURRENT VALUE OF PB10
 00020810   2258                    * PB15 = WHERE FROM FLAG.  IF PB10 = 0, XACT CAME FRM SMG1
 00020820   2259                    *                          IF PB10 = 1, XACT CAME FRM SMSAM
 00020830   2260                    * PB16 = MISSION TYPE
 00020840   2261                    * PB17 = MISSION DURATION
 00020850   2262                    * PB18 = NUMBER OF ALERT A/C CALLED
 00020860   2263                    * PB19 = NUMBER OF STANDBY A/C CALLED
 00020870   2264                    * PB20 = NUMBER OF ALERT A/C AVAILABLE AT LAUNCH
 00020880   2265                    * PB21 = NUMBER OF STANDBY A/C AVAILABLE AT LAUNCH
*12/10/82   2266                    * PB22 = MISSION SATISFACTION CODE
*12/10/82   2267                    *      1 = MISSION REQUIREMENTS SATISFIED
*12/10/82   2268                    *      2 = MISSION CANCELLED - INSUFFICIENT A/C AVAILABLE AT CALL TIME
*12/10/82   2269                    *      3 = MINIMUM A/C OBTAINED OR POTENTIALLY AVAILABLE - KEEP TRYING
 00020890   2270                    *
 00020900   2271                    * PH3 = NOT USED
 00020910   2272                    * PH4 = CHAIN INDEX - A/C IN MAINTENANCE
 00020920   2273                    * PH5 = CHAIN INDEX - MISSION SELECTION HOLDING
 00020930   2274                    * PH6 = MH INDEX - A/C PREPARATION & INSPECTION
 00020940   2275                    * PH7 = CHAIN INDEX - A/C NOT IN MAINTENANCE THIS SQUADRON
 00020950   2276                    * PH8 = LAUNCH EVENT SEQUENCE NUMBER THIS DAY
 00020960   2277                    * PH9 = COLUMN NUMBER - MHSOPS
 00020970   2278                    * PH10 = MH INDEX - LAUNCH TIME MATRIX
 00020980   2279                    * PH11 = BLOCK I.D. - SUBROUTINE TRANSFER
 00020990   2280                    * PH12 = A/C MISSION PREPARATION TIME
 00021000   2281                    * PH13 = MB INDEX - AIR PLAN
 00021010   2282                    * PH14 = MA INDEX - MISSION STATISTICS
 00021020   2283                    *
 00021030   2284                    * PF2 = TIME OF FIRST LAUNCH
 00021040   2285                    * PF3 = SCHEDULED LAUNCH TIME THIS MISSION
 00021050   2286                    * PF4 = LAUNCH SERIAL NUMBER
 00021060   2287                    * PF5 = MISSION SERIAL NUMBER
 00021070   2288                    * PF6 = LAUNCH WINDOW EXPIRATION TIME
 00021080   2289                    ************************************************************************
 00021090   2290            350     SMGA  PRIORITY   5)
 00021100   2291            351           ASSIGN     6,MHSCOMPL(2,PB5),PB     A/C TYPE
 00021110   2292            352           ASSIGN     8,MHSTYP(4,PB6),PH       MH INDEX - A/C PREP. & INSP.
 00021120   2293            353           ASSIGN     13,MHSOPS(MVSOPRNA,PH9),PH     MB INDEX - AIR PLAN
 00021130   2294            354           ASSIGN     14,MHSCOMPL(13,PB5),PH   MA INDEX - MISSION STATISTICS
 00021140   2295            355           ASSIGN     4,MHSCHA(2,PB5),PH       CHAIN INDEX - A.C IN MAINT.
 00021150   2296            356           ASSIGN     7,MHSCHA(6,PB5),PH       CHAIN INDEX - A/C NOT IN MAINT
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GPSS/H  V4/37  RELEASE 1.0 (AY142)       15 DEC 82  10:40:04    FILE: A7ENCOPS

LINE#  STMT#  IF LO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00021160  2297          357          ASSIGN     8,0,PH          RESET LAUNCH COUNTER
00021170  2298          358   SMGD   TEST L     PH8,MH*PH10(1,PH9),SMGR MORE LAUNCHES THIS DAY
00021180  2299          359          ASSIGN     8+,1,PH         NEXT LAUNCH EVENT NR.
00021190  2300          360          SAVEVALUE  LAUNR+,1,XF     LAUNCH SERIAL NUMBER
00021200  2301          361          ASSIGN     9,XF$LAUNR,PF   LAUNCH SERIAL NUMBER
00021210  2302          362          SAVEVALUE  ADVAL,MH*PH10(2,PH9),XH TIME OF FIRST LAUNCH
00021220  2303          363          SAVEVALUE  LTM1,V$CNVRT,XH CONVERT TO CLOCK UNITS
00021230  2304          364          SAVEVALUE  ADVAL,MH*PH10(V$LROW,PH9),XH  TIME THIS LAUNCH
00021240  2305          365          SAVEVALUE  RLTIM,V$CNVRT,XH CONVERT TO CLOCK UNITS
00021250  2306          366          ASSIGN     3,V$ALTIM,PF    CLOCK TIME THIS LAUNCH
00021260  2307          367          ASSIGN     9,5,PB          COLUMN NR. - AIR PLAN MB
00021270  2308          368   SMGG   INDEX      9PB,1           COLUMN NR. - NR. OF ALERT A/C
00021280  2309          369          ASSIGN     10,M3*PH13(PH8,PB1),PB  NR. ALERT A/C THIS MISSION
00021290  2310                *                                  TYPE
00021300  2311          370          TEST G     PB10,0,SMGM     IS AT LEAST 1 ALERT A/C REQUIRED
00021310  2312          371          SAVEVALUE  TSMS+,1,XF      MISSION SERIAL NUMBER
00021320  2313          372          ASSIGN     5,XF$TSMS,PF    MISSION SERIAL NUMBER
00021330  2314          373          SAVEVALUE  MPR,PB9,XB      MISSION PRIORITY
00021340  2315          374          ASSIGN     5,FN$MHOLD,PH   CHAIN INDEX - MISSION SELECTION
00021350  2316          375          ASSIGN     10,PB10,PB      NUMBER OF ALERT A/C
00021360  2317          376          ASSIGN     16,M8*PH13(PH8,PB9),PB  MISSION TYPE
00021370  2318          377          INDEX      9PB,5           COLUMN NR. - MISSION DURATION
00021380  2319          378          ASSIGN     13,M8*PH13(PH8,PB1),PB  MISSION DURATION
00021390  2320          379          TEST L     PB13,0,SMGS     NEGATIVE VALUE
00021400  2321          380          TEST E     BV$SMG1,1,DBG51 CYCLIC OPS - NOT THE LAST LAUNCH
00021410  2322          381          ASSIGN     13,V$INVRT,PB   MISSION DURATION IN LAUNCH CYCLES
00021420  2323          382          ASSIGN     7,PB13,PB       LOOPING PARAMETER
00021430  2324          383          ASSIGN     17,0,PB         CLEAR
00021440  2325          384   SMGQ   SAVEVALUE  ADROW,V$LROW,XH  ROW NUMBER - LAUNCH TIME MH
00021450  2326          385          TRANSFER   SBR,TBLA,11PH    DETERMINE TIME TO NEXT LAUNCH EVENT
00021460  2327          386          ASSIGN     17+,XH$TBL,PB   ADD TO MISSION DURATION
00021470  2328          387          LOOP       7PB,SMGQ        DO FOR TOTAL MISSION DURATION
00021480  2329          388   SMGK   INDEX      9PB,15          COL. NR. - NUMBER OF STANDBY A/C
00021490  2330          389          ASSIGN     11,M8*PH13(PH8,PB1),PB  NR. OF STANDBY A/C
00021500  2331          390          INDEX      9PB,20          COL. NR - MINIMUM NUMBER OF A/C
00021510  2332                *                                  NEEDED TO AVOID MISSION
00021520  2333                *                                  CANCELLATION
00021530  2334          391          ASSIGN     12,M8*PH13(PH8,PB1),PB  MINIMUM A/C REQUIRED TO AVOID
00021540  2335                *                                  MISSION CANCELLATION
00021550  2336          392          TEST GE    PH12,1,DBG52    SHOULD BE AT LEAST 1
00021560  2337          393          INDEX      9PB,25          COL. NR - LAUNCH WINDOW
00021570  2338          394          ASSIGN     6,V$WDEXP,PF    LAUNCH WINDOW EXPIRATION TIME
00021580  2339          395          TEST E     BV$CYOPS,1,SMGU CYCLIC OPS
00021590  2340          396          TEST E     PF6,PF5,DBG54   NO LAUNCH WINDOW
00021600  2341          397   SMGU   SPLIT      1,SMGC          MISSION THIS SQUADRON
00021610  2342          398          LOOP       9PB,SMGG        LOOP THRU ALL MISSION PRIORITIES
00021620  2343          399   SMGM   TEST E     PH9,1,SMGT      IS THIS THE FIRST LAUNCH EVENT
00021630  2344          400          TABULATE   MH$TAB(2,PB5)    OPC A/C AVAILABLE AT START OF
00021640  2345                *                                  FLYING DAY
00021650  2346          401          TEST E     BV$CYOPS,1,SMGT CYCLIC OPS
00021660  2347          402          SPLIT      1,SMGJ          TO PERFORM RESPOT
00021670  2348          403   SMGT   SPLIT      1,SMGF          TO CALL MISSIONS
00021680  2349          404          LINK       SMG1,FIFO       MISSION SCHEDULING XACTS
00021690  2350          405   SMGK   TERMINATE
00021700  2351          406   SMGS   TEST E     BV$SMG2,1,DBG52 CYCLIC OPS - LAST LAUNCH, OR
00021710  2352                *                                  NON-CYCLIC OPS
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GPSS/H  VM/370 RELEASE 1.0 (AY162)        10 DEC 82  10:40:04     FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00021720  2353            417          ASSIGN     17,PB13,PB          MISSION DURATION
00021730  2354            418          TRANSFER   ,SMGK
00021740  2355            419   SMGJ   GATE LS    FLTJ                WAIT UNTIL FLIGHT QUARTERS
00021750  2356            420          UNLINK     SPUTQ,SMGE,ALL,5PB      A/C AWAITING RESPOT
00021760  2357            421          BUFFER                         PROCESS A/C XACT
00021770  2358            422          UNLINK     PH7,SMGL,ALL,BV$RSPFA   RESPOT AVAILABLE A/C TO FLIGHT
00021780  2359                  *                                          DECK
00021790  2360            423          TERMINATE
00021800  2361            424   SMGF   ADVANCE    V$CALL2             CALL A/C FOR MISSION
00021810  2362            425          GATE LR    SMG1                LET 1 XACT IN
00021820  2363            426          LOGIC S    SMG1                CLOSE THE GATE
00021830  2364            427   SMGD   UNLINK     MISNS,SMG1,ALL,4PF      MISSIONS THIS SQUADRON THIS
00021840  2365                  *                                          LAUNCH
00021850  2366            428          UNLINK     SMG1,SMG),1,5PB,,DMG53  MISSION SCHEDULING XACT
00021860  2367            429          LINK       SHOLD,FIFO          HOLDING CHAIN
00021870  2368            430   SMGC   ASSIGN     3,2,PB              XACT 1.D. = MISSION CALLING
00021880  2369            431          TEST G     PB11,0,SMGB         ANY STANDBY A/C NEEDED THIS MISSION
00021890  2370                  *                                          SCHEDULED THIS LAUNCH
00021900  2371            432          ASSIGN     19,PB11,PB          NUMBER OF STANDBY A/C
00021910  2372            433          SPLIT      1,SMGH              STANDBY A/C CALLING XACT
00021920  2373            434   SMGB   LINK       MISNS,FIFO          PENDING MISSIONS
00021930  2374            435   SMGH   ASSIGN     3,3,PB              XACT IDENT. PB3=3 - STANDBY A/C
00021940  2375                  *                                          CALLING XACT
00021950  2376            436          LINK       SBYCX,FIFO          STANDBY A/C CALLING XACTS THIS DAY
00021960  2377            437   SMG1   MSAVEVALUE PH14*,1,PB16,1,MX       MISSIONS SCHEDULED THIS TYPE
00021970  2378            438          MSAVEVALUE PH14*,1,V$MHMC,1,MX      TOTAL MISSIONS SCHEDULED
00021980  2379            439          MSAVEVALUE PH14*,4,PB16,PB10,MX     SORTIES SCHEDULED THIS
00021990  2380                  *                                          MISSION TYPE
00022000  2381            440          MSAVEVALUE PH14*,4,V$MHMC,PB10,MX   TOTAL SORTIES SCHEDULED
00022010  2382            441          ASSIGN     15,0,PB             WHERE FROM FLAG
00022020  2383            442          TEST E     W$SMGD,0,SMSAA      IS THIS THE LOWEST PRIORITY MISSION
00022030  2384            443          ASSIGN     8,1,PB              FLAG THIS PARAM.
00022040  2385            444          TRANSFER   ,SMSAA
12/10/82  2386            445   SMGL   ASSIGN     16,MH$COMPL(16,PB5),PH  RESPOT TIME
12/10/82  2387            446          TRANSFER   SBR,RSPFA,11PH      RESPOT TO FLIGHT DECK
00022060  2388            447          LINK       PH7,5PB             A/C NOT IN MAINTENANCE
00022070  2389            448   SMGE   TRANSFER   PH,11
00022080  2390                  *
00022090  2391                  *
00022100  2392                  *
00022110  2393                  ***** PAGE 5M - MISSION SELECTION ROUTINE *****
00022120  2394            449   SMSAA  GATE LR    SMSA1               LET 1 XACT IN
00022130  2395            450          LOGIC S    SMSA1               CLOSE THE GATE
00022140  2396            451          JOIN       SMSA1               TO COMMUNICATE WITH SELECTED A/C
00022150  2397            452          SAVEVALUE  WHERE4,PB15,X5      WHERE FROM FLAG
00022160  2398            453          TEST E     BV$CYUPS,1,SMSAQ    CYCLIC OPS
00022170  2399            454          TEST E     PH6,MH$OPS(11,PH9),SMSAG      LAUNCH EVENT FOR CHECK
00022180  2400                  *                                          FLIGHTS
00022190  2401            455          UNLINK     PH7,SMSAE,ALL,36PB,1    A/C REQUIRING CHECK FLIGHT
00022200  2402            456   SMSAL  SAVEVALUE  MSER,PF5,XF        MISSION SERIAL NUMBER
00022210  2403            457          SAVEVALUE  MTYP,PB16,XB        SCHEDULED MISSION TYPE
00022220  2404            458          SAVEVALUE  MPR,PH9,XB          MISSION PRIORITY
00022230  2405            459          SAVEVALUE  PREP,PH6,XH         MH INDEX - A/L PREPARATION
00022240  2406            460          ASSIGN     12,V$TPRP2,PH       MINIMUM A/C PREPARATION TIME
00022250  2407            461          ALTER      MH$GRP(7,PB5),ALL  ,PF,PF6      GI   AUNCH WINDOW
00022260  2408                  *                                          E    ATION TIME TO
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:08.94    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00022270  2459              *                                      SQUADRON
 12/10/82  2460         452          ASSIGN     14,PB10,PB         SAVE CURRENT VALUE OF PB10
 00022280  2461         453   SMSAD  UNLINK     PH7,SMSAU,1,BV$AVALP,,SMSAV   TRY TO GET 1 A/C
 00022290  2462              *                                      CAPABLE THIS MISSION
 00022300  2463         454   SMSAX  BUFFER                        PROCESS UNLINKED XACT
 00022310  2464         455          LOOP       1,PB,SMSAD         TRY FOR ALL NEEDED A/C
 12/10/82  2465         456          ASSIGN     22,1,PB            MISSION REQUIREMENTS MET
 00022330  2466         457          UNLINK     SBYCX,SACAA,1,3PF  STANDBY A/C CALLING XACT
 00022340  2467         458          UNLINK     PH5,SMSAE,ALL      A/C OBTAINED
 00022350  2468         459   SMSAR  BUFFER                        PROCESS UNLINKED XACT(S)
 00022360  2469         470   SMSAP  TEST E     XB$MRFRM,0,SMSAF   MISSION CALL TIME
 00022390  2470         471          TEST E     Pb8,1,SMSAF        IS THIS THE LOWEST PRIORITY MISSION
 00022400  2471              *                                      THIS LAUNCH
 00022410  2472         472          UNLINK     SXHLD,SMSAG,1,4PF,,03G55      MISSION SCHEDULING XACT
 00022420  2473              *                                      THIS LAUNCH
 00022430  2474         473   SMSAF  LOGIC R    SMSA1              OPEN THE GATE
 00022440  2475         474          REMOVE     SMSA1
 12/10/82  2476         475          TEST NE    PB22,2,S4S6F       MISSION NOT CANCELLED
 12/10/82  2477         476          TEST L     PB22,1,S4SAM       MISSION REQUIREMENTS SATISFIED
 12/10/82  2478         477          SCAN       PLNCH,5PF,PF5,,,SMSBG   DOES LAUNCH XACT EXIST
 12/10/82  2479         478          TERMINATE
 12/10/82  2480         479   SMSBG  SPLIT      1,SMSAD            LAUNCH XACT
 12/10/82  2481         480   SMSBF  TERMINATE
 00022480  2482         481   SMSAU  ASSIGN     9,15,PB            ACTIVITY = SELECTED FOR MISSION
 00022490  2483         482          ASSIGN     11,SMSAL,PH        BLOCK DESINATION IF A/C NOT USED
 00022500  2484         483          TRANSFER   ,SMSAB
 00022510  2485         484   SMSAV  UNLINK     PH4,SMSAW,1,BV$AVALU,,SMSAC   TRY A/C IN MAINTENANCE
 00022520  2486         485          TRANSFER   ,SMSAX
 00022530  2487         486   SMSAW  ASSIGN     9,15,PB            ACTIVITY = SELECTED FOR MISSION
 00022540  2488         487          ASSIGN     11,SMSAI,PH        BLOCK DESINATION IF A/C NOT USED
 00022550  2489         488          TRANSFER   ,SMSAB
 00022560  2490         489   SMSAB  TEST E     XB$MRFRM,0,SMSAE   MISSION CALL TIME
 00022570  2491         490          MSAVEVALUE PH100,5,XB$MTYP,1,MX     A/C READY WHEN CALLED THIS
 00022580  2492              *                                      MISSION TYPE
 00022590  2493         491          MSAVEVALUE PH100,5,V$MHMC,1,MX      TOTAL A/C READY WHEN CALLED
 00022600  2494         492          ASSIGN     24-25,0,PB         RESET
 00022610  2495         493          ASSIGN     5,XF$MSER,PF       TENTATIVE MISSION SERIAL NUMBER
 00022620  2496         494          LINK       FN$MHOLD,BPB       MISSION HOLDING CHAIN - ORDERED BY
 00022630  2497              *                                      MISSION CAPABILITY
 00022640  2498         495   SMSAC  ASSIGN     14,PB10,PB         SAVE CURRENT VALUE OF PB10
 12/10/82  2499         496   SMSBC  UNLINK     LINQ1,SMSBD,1,BV$COMRT,,SMSBE POTENTIAL "COMER" A/C
 12/10/82  2500              *                                      IN TURNAROUND INSP.
 12/10/82  2501         497          BUFFER                       PROCESS UNLINKED XACT
 12/10/82  2502         498          LOOP       1,PB,SMSBC         TRY FOR ALL NEEDED A/C
 12/10/82  2503         499          TRANSFER   ,SMSAJ
 12/10/82  2504         500   SMSBE  ASSIGN     14,PB10,PB         SAVE CURRENT VALUE OF PB10
 12/10/82  2505         501   SMSAN  UNLINK     PH9,SMSAI,1,BV$COMRU,,SMSAJ   POTENTIAL "COMER" A/C
 12/10/82  2506              *                                      IN UNSCHEDULED MAINT.
 00022660  2507         502          BUFFER                       PROCESS UNLINKED XACT
 00022670  2508         503          LOOP       1,PB,SMSAK         DO FOR ALL NEEDED A/C
 00022680  2509         504   SMSAJ  TEST L     V$ACOMT,PB12,SMSAT      WERE INSUFFICIENT A/C
 00022690  2510              *                                      OBTAINED TO FLY A MINIMUM
 00022700  2511              *                                      MISSION
 00022710  2512         505          UNLINK     PH5,SMSAY,ALL,5PF,,S4SAM      A/C OBTAINED
 00022720  2513         506   SMSAS  UNLINK     SBYCX,SMSAN,1,5PF  STANDBY A/C CALLING XACT THIS
 00022730  2514              *                                      MISSION
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GPSS/H  VM/370 RELEASE 1.0 (AV142)       10 DEC 82  10:49:30    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00022740  2455            507          BUFFER                          PROCESS UNLINKED XACT
00022750  2456            508          MSAVEVALUE PH14*,2,PB16,1,MX TIMES MISSION REQUIREMENTS NOT MET
00022760  2457                       *                                 THIS MISSION TYPE
00022770  2458            509          MSAVEVALUE PH14*,2,V$MHMC,1,MX    TOTAL TIMES MISSION
00022780  2459                       *                                 REQUIREMENTS NOT MET
00022790  2470            510          MSAVEVALUE PH14*,12,PB16,1,MX     MISSIONS CANCELLED THIS TYPE
000227A0  2471            511          MSAVEVALUE PH14*,12,V$MHMC,1,MX   TOTAL MISSIONS CANCELLED
12/10/82  2472            512          ASSIGN     22,2,PH                MISSION CANCELLED
000227C0  2473            513          ALTER      MH$GRP(7,PB5),ALL,16PF,0,16PF,PF5   RELEASE *COVER*
000227D0  2474                       *                                                 A/C
000227E0  2475            514          TRANSFER   ,SMSAP
00022850  2476            515   SMSAE  SCAN       SMSA1,5P4,PB5,3PF,3PF,0BG55   SCHEDULED LAUNCH TIME
00022860  2477            516          SCAN       SMSA1,5P5,PB5,3PF,3PF         SCHEDULED LAUNCH TIME
00022870  2478            517          SCAN       SMSA1,5P6,PB5,4PF,4PF         LAUNCH SERIAL NUMBER
00022880  2479            518          SCAN       SMSA1,5P3,PB5,5PF,5PF         MISSION SERIAL NUMBER
00022890  2480            519          SCAN       SMSA1,5P3,PB5,6PF,6PF         LAUNCH WINDOW EXPIRATION TIME
000228A0  2481            520          SCAN       SMSA1,5P3,PB5,8PH,8PH         LAUNCH EVENT NUMBER
000228B0  2482            521          SCAN       SMSA1,5P3,PB5,13PH,13PH       AIR PLAN INDEX NUMBER
000228C0  2483            522          SCAN       SMSA1,5P4,PB5,9PH,9P4         COLUMN NUMBER - MH$OPS
000228D0  2484            523          TEST NE    PB36,1,SMSBA           NOT A CHECK FLIGHT
000228E0  2485            524          SCAN       SMSA1,5P3,PB5,16PB,16PB       MISSION TYPE
000228F0  2486            525          SCAN       SMSA1,5P4,PB5,9PB,1HPB        MISSION PRIORITY
00022900  2487            526          SCAN       SMSA1,5P4,PB5,17PB,20PB       MISSION DURATION
12/10/82  2488            527   SMSAZ  ASSIGN     16,0,PF                CLEAR THIS PARAM.
12/10/82  2489            528          TEST E     BV$CYOPS,1,PRPAA       CYCLIC OPS
00022980  2490            529          TEST E     PB34,1,PRPAA           IS A/C ON HANGAR DECK
12/10/82  2491            530          ASSIGN     19,MH$LUMPL(16,PB5),PH RESPOT TIME
00022990  2492            531          TRANSFER   SBR,RSPFA,11PH          RESPOT TO FLIGHT DECK
000229A0  2493            532          TRANSFER   ,PRPAA
000229B0  2494            533   SMSBA  ASSIGN     16,V$CHKFL,PB          MISSION TYPE = CHECK FLIGHT
000229C0  2495            534          ASSIGN     20,MH$OPS(16,PH41),PB  FLIGHT DURATION
000229D0  2496            535          TRANSFER   ,SMSAZ
000229E0  2497            536   SMSAG  LOGIC R    SMG1                   OPEN THE GATE
000229F0  2498            537          TERMINATE
00022A00  2499            538   SMSAU  JOIN       PLNCH                  PENDING LAUNCHES
00022A10  2500            539          ADVANCE    V$TTL                  SCHEDULED LAUNCH TIME
00022A20  2501            540          TRANSFER   ,LNCHA
12/10/82  2502            541   SMSAH  TEST E     PB22,3,SMSBH           SUFFICIENT A/C FOR MINIMUM MISSION
12/10/82  2503            542          TEST GE    PH12,V$TTL,SMSBH       STILL TIME TO MAKE SCHEDULED LAUNCH
12/10/82  2504            543          SCAN       PLNCH,5PF,PF5,,,,SMSBI DOES LAUNCH XACT EXIST
12/10/82  2505            544   SMSBH  TEST L     PH12,V$TTL#,SMSBB             STILL TIME TO MAKE THE LAUNCH
12/10/82  2506            545          ASSIGN     10,PB14,PB             A/C STILL NEEDED
00023130  2507            546          ADVANCE    1
00023130  2508            547          ASSIGN     15,1,P6                WHERE FROM FLAG
00023140  2509            548          TRANSFER   ,SMSAA                 LET 1 XACT IN
00023150  2510            549   SMSAI  ASSIGN     9,11,PH                ACTIVITY = UNSCHEDULED MAINTENANCE
00023160  2511            550          LINK       PH25,24PH              A/C IN MAINTENANCE
00023170  2512            551   SMSAL  ASSIGN     9,1,P6                 ACTIVITY = AVAILABLE FOR MISSION
00023180  2513            552          LINK       P47,3P6                A/C NOT IN MAINTENANCE
00023190  2514            553   SMSAM  MSAVEVALUE PH14*,3,PB16,1,MX TIMES NO A/C AVAILABLE THIS MISSION
000231A0  2515                       *                                 TYPE WHEN CALLED
000231B0  2516            554          MSAVEVALUE PH14*,3,V$MHMC,1,MX    TOTAL TIMES NO A/C AVAILABLE
000231C0  2517                       *                                 WHEN CALLED
000231D0  2518            555          TRANSFER   ,SMSAS
000231E0  2519            556   SMSBB  UNLINK     SBYCX,SMSAN,1,5PF      STANDBY A/C CALLING XACT THIS
000231F0  2520                       *                                 MISSION
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:34    FILE: ATENCOPS

   LINE#  STMT#  IF GO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 0002326U  2521          557    SMSAN TERMINATE
*12/10/82  2522          558    SMSBI SPLIT      1,SMSAU          LAUNCH XACT
*12/10/82  2523          559          TRANSFER   ,SMSBH
 0002327U  2524          560    SMSAT UNLINK     PH5,SMSAB,A,L    A/C OBTAINED
*12/10/82  2525          561          ASSIGN     22,3,PB          SUFFICIENT A/C FOR MINIMUM MISSION
*12/10/82  2526                *                                  KEEP TRYING
 0002330U  2527          562          TRANSFER   ,SMSAR
 0002331U  2528          563    SMSAY TRANSFER   PH,11
*12/10/82  2529          564    SMSBD ASSIGN     16,XF$MSER,PF    MISSION SERIAL NUMBER
*12/10/82  2530          565          LINK       LIN01,FIFO       A/C IN INSPECTION
 0002332U  2531                *
 0002333U  2532                *
 0002334U  2533                *
 0002335U  2534                ***** PAGE SACA - STANDBY AIRCRAFT ROUTINE *****
 0002336U  2535          566    SACAA GATE LR    SACA1            LET 1 XACT IN
 0002337U  2536          567          LOGIC S    SACA1            CLOSE THE GATE
 0002338U  2537          568    SACA1 PRIORITY   PK,BUFFER         PROCESS OTHER STANDBY A/C XACTS
 0002339U  2538          569          SAVEVALUE  MTYP,P$16,XB      MISSION TYPE
 0002340U  2539          570          UNLINK     PH7,SACAB,1,BV$AVALS,,SACAC   TRY TO GET A PREVIOUSLY
 0002341U  2540                *                                  STANDBY A/C CAPABLE OF FLYING THIS
 0002342U  2541                *                                  MISSION
 0002343U  2542          571    SACAC JOIN       SACA1            TO COMMUNICATE WITH UNLINKED XACT
 0002344U  2543          572          BUFFER                      PROCESS UNLINKED XACT
 0002345U  2544          573          REMOVE     SACA1
 0002346U  2545          574          LOGIC R    SACA1            OPEN THE GATE
 0002347U  2546          575          LOOP       11PB,SACAH       TRY FOR ALL NEEDED STANDBY A/C THIS
 0002348U  2547                *                                  MISSION
 0002349U  2548          576          TERMINATE
 0002350U  2549          577    SACAC UNLINK     PH7,SACAB,1,BV$AVALP,,SACAD   TRY TO GET ANY MISSION
 0002351U  2550                *                                               CAPABLE A/C CAPABLE OF
 0002352U  2551                *                                               FLYING THIS MISSION
 0002353U  2552          578          TRANSFER   ,SACAE
 0002354U  2553          579    SACAB ASSIGN     25,1,PB          STANDBY A/C
 0002355U  2554          580          ASSIGN     26,P$16,PB       PREVIOUS MISSION TYPE
 0002356U  2555          581          SCAN       SACA1,5P3,PB5,16PB,15PB NEW MISSION TYPE
 0002357U  2556          582          SCAN       SACA1,5P4,PB5,9PB,18PB  NEW MISSION PRIORITY
 0002358U  2557          583          SCAN       SACA1,5P8,PB5,17PB,20PB NEW MISSION DURATION
 0002359U  2558          584          SCAN       SACA1,5P3,PB5,3PF,3PF   SCHEDULED LAUNCH TIME
 0002360U  2559          585          SCAN       SACA1,5P5,PB5,4PF,4PF   LAUNCH SERIAL NUMBER
 0002361U  2560          586          SCAN       SACA1,5P3,PB5,5PF,5PF   NEW MISSION SERIAL NUMBER
 0002362U  2561          587          SCAN       SACA1,5P3,PB5,6PF,6PF   LAUNCH WINDOW EXPIRATION TIME
 0002363U  2562          588          SCAN       SACA1,5P8,PB5,8PH,8PH   LAUNCH EVENT NUMBER
 0002364U  2563          589          SCAN       SACA1,5P4,PB5,13PH,39PH AIR PLAN INDEX NUMBER
 0002365U  2564          590          SCAN       SACA1,5P3,PB5,9PH,9P1   COLUMN NUMBER - MM$UPS
 0002366U  2565          591          TEST E     BV$CYOPS,1,PKPAA CYCLIC OPS
 0002367U  2566          592          TEST E     P$39,1,PKPAA     IS A/C ON HANGAR DECK
*12/10/82  2567          593          ASSIGN     14,MM$CUMPL(10,PB5),PH  RESPOT TIME
 0002368U  2568          594          TRANSFER   SBR,RSPFA,11PH   RESPOT TO FLIGHT DECK
 0002369U  2569          595          TRANSFER   ,PRPAA
 0002370U  2570          596    SACAD LOGIC R    SACA1            OPEN THE GATE
 0002371U  2571          597          SAVEVALUE  MTYP,P$16,XB     SCHEDULED MISSION TYPE
 0002372U  2572          598          ASSIGN     12,V$TPRP2,PH    MINIMUM A/C PREPARATION TIME
 0002373U  2573          599          ADVANCE    1                WAIT 1 CLOCK UNIT
 0002374U  2574          600          TEST G     VsTTLW,P$12,SACAF STILL TIME TO MAKE LAUNCH
 0002375U  2575          601    SACAH GATE LR    SACA1            LET 1 XACT IN
 0002376U  2576          602          LOGIC S    SACA1            CLOSE THE GATE
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GPSS/H  VM/370 RELEASE 1.0 (AY162)      16 DEC 82  10:40:04    FILE: A7ENCOPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00023770  2577            633          TRANSFER   ,SACAI
00023780  2578            634   SACAF  TEST L     P$11,PB13,SACAG   ARE NO STANDBY A/C AVAILABLE
00023790  2579            635          MSAVEVALUE PH149,9,PB16,1,MX TIMES NO STANDBY A/C THIS MISSION
00023800  2580                       *                               TYPE AVAILABLE WHEN CALLED
00023810  2581            635          MSAVEVALUE PH149,9,V$MHMC,1,MX     TOTAL TIMES NO STANDBY A/C
00023820  2582                       *                               AVAILABLE
00023830  2583            637   SACAG  TERMINATE
00023840  2584                       *
00023850  2585                       *
00023860  2586                       *
00023870  2587                       ***** PAGE PAP - AIRCRAFT PREPARATION ROUTINE *****
00023880  2588            638   PRPAA  ASSIGN     11,0,PB           RESET
00023890  2589            639          TEST NE    PH36,1,PRPAF      IS THIS NOT A CHECK FLIGHT
00023900  2590            610          TEST E     BV$ORULD,1,PRPAC  IS A/C LACKING ORDNANCE
00023910  2591            611   PRPAI  SAVEVALUE  MTYP,PB16,XB      SCHEDULED MISSION TYPE
00023920  2592            612          TEST NE    MH*PH25(V$ORDL,2),0,PRPAD     IS ORDNANCE NEEDED THIS
00023930  2593                       *                               MISSION
00023940  2594            613          ASSIGN     11,1,PB           LOAD ORDNANCE
00023950  2595            614   PRPAD  TEST E     BV$PREP3,1,PRPAG  IS GROUND CREW PREFLIGHT NEEDED
00023960  2596            615   PRPAF  ASSIGN     9,2,PB            ACTIVITY = PREFLIGHT INSPECTION
00023970  2597            616          TRANSFER   SBR,LINA,11PH     LINE INSPECTION
00023980  2598            617          ASSIGN     30,2,PB           LAST INSPECTION = GROUND CREW
00023990  2599                       *                               (PREFLIGHT)
00024000  2600            618          MARK       13PF              TIME LAST GROUND CREW PREFLIGHT
00024010  2601                       *                               COMPLETED
00024020  2602            619          ASSIGN     40,1,PB           GROUND CREW PREFLIGHT NOT NEEDED
00024030  2603                       *                               FLAG
00024040  2604            620          ASSIGN     23,4,PB           SYSTEM/SUBSYSTEM MATRIX COLUMN -
00024050  2605                       *                               WHEN DISCOVERED = GROUND CREW INSP.
00024060  2606            621          TRANSFER   SBR,DISAA,11PH    TEST FOR DISCREPANCIES
00024070  2607            622          TEST E     PB28,0,PRPAL      ARE THERE NO NEW DISCREPANCIES
00024080  2608            623   PRPAG  ASSIGN     1,0,PB            RESET
00024090  2609            624          TEST NE    PB11,0,PRPAH      IS ORDNANCE LOAD NEEDED
00024100  2610            625          SPLIT      1,PRPBB,1PB       TO PERFORM ORDNANCE LOAD
00024110  2611            625   PRPAH  ASSIGN     9,3,PB            ACTIVITY = AIRCREW INSPECTION
00024120  2612            627          ADVANCE    MH*PH25(2,3)      AIR CREW INSPECTION
00024130  2613            629          TEST E     PB1,1,PRPAM       WAS ORDNANCE LOAD NEEDED
00024140  2614            629   PRPAJ  GATHER     2                 WAIT FOR BOTH EVENTS
00024150  2615            630          TEST E     PB1,1,PRPAZ       IS THIS THE ORIGINAL A/C XACT
00024160  2616            631   PRPAM  MSAVEVALUE PH134,3,2,1,MH    INSPECTIONS BY EVENT
00024170  2617            632          ASSIGN     3,0,PB            RESET
00024180  2618            633          ASSIGN     23,5,PB           SYSTEM/SUBSYSTEM MATRIX COLUMN -
00024190  2619                       *                               WHEN DISCOVERED = AIRCREW INSP.
00024200  2620            634          TRANSFER   SBR,DISAA,11PH    TEST FOR DISCREPANCIES
00024210  2621            635          TEST E     PB23,0,PRPBC      ARE THERE NO NEW DISCREPANCIES
00024220  2622            635   PRPBD  ASSIGN     11,0,PB           RESET
00024230  2623            637          ASSIGN     3,3,PB            LAST INSPECTION = AIRCREW
00024240  2624            638          TEST LE    C1,PF6,PRPAP      HAS LAUNCH WINDOW NOT YET EXPIRED
00024250  2625            639          TEST E     PB36,1,PRPAN      IS THIS A CHECK FLIGHT
00024260  2626            640          TEST E     BV$CYOPS,1,FLTA   CYCLIC OPS
00024270  2627            641          ADVANCE    V$TTL             SCHEDULED LAUNCH TIME
00024280  2628            642          TRANSFER   ,FLTA
00024290  2629            643   PRPAC  TEST E     V$PREP3,1,PRPAI   WAS PREVIOUS MISSION SCHEDULED FOR
00024300  2630                       *                               PRECEDING LAUNCH EVENT
00024310  2631            644          TEST NE    PB15,PB26,PRPAD   IS CURRENT MISSION NOT SAME AS
00024320  2632                       *                               PREVIOUS MISSION
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GPSS/H  V4/37  RELEASE 1.0 (AY142)        15 DEC 82  10:40:04    FILE: A7ENCUPS

LINE#  STMT#  IF UO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00024330  2633          645          ASSIGN     11,2,PB          RECONFIGURE A/C
00024340  2634          645          TRANSFER   ,PRPAD
00024350  2635          647   PRPAL  ASSIGN     11,PRPAG,PH      BLOCK DESTINATION
00024360  2636          649          TRANSFER   ,PRPAK
00024370  2637          649   PRPAP  TEST E     PB36,1,PRPAB     IS THIS A CHECK FLIGHT A/C
00024380  2638          650          TEST E     BV$CYOPS,1,FLTA  CYCLIC OPS
00024390  2639          651   PRPAB  TEST E     BV$AVALF,0,PRPAY CAN A/C NOT FLY ALL MISSION TYPES
00024400  2640          652          TRANSFER   S$R,CPBA,33PH    DETERMINE REMAINING MISSION
00024410  2641                *                                  CAPABILITY
00024420  2642          653          TEST E     XB$MCAP,1,USAAA  CAN A/C FLY AT LEAST 1 REMAINING
00024430  2643                *                                  MISSION
00024440  2644          654   PRPAY  ASSIGN     9,1,PB           ACTIVITY = AVAILABLE FOR MISSION
00024450  2645          655          LINK       PH7,BPB          A/C NOT IN MAINTENANCE
00024460  2646          655   PRPAN  ASSIGN     45,0,PH          RESET
00024470  2647          657          SCAN       PLNCH,5PF,PF5,,,PRPAY   IS LAUNCH STILL PENDING
00024480  2648          659          TEST NE    P$25,1,PRPAQ     IS THIS NOT A STANDBY A/C
00024490  2649          659          LINK       LNCH,FIFO        A/C AWAITING LAUNCH
00024500  2650          660   PRPAQ  LINK       STBY,FIFO        STANDBY A/C
00024510  2651          661   PRPAK  TRANSFER   S$R,UPDAA,16PH   UPDATE SCIR STATISTICS
00024520  2652          662          TEST NE    PB31,PB8,PRPAQ   HAS THERE A STATUS CHANGE
00024530  2653          663          TRANSFER   S$R,CHMCA,16PH   UPDATE A/C MISSION CAPABILITY
00024540  2654          664          SAVEVALUE  MTYP,PB16,XB     SCHEDULED MISSION TYPE
00024550  2655          665          TEST E     BV$AVALM,1,PRPAU IS A/C STILL CAPABLE THIS MISSION
00024560  2656          666   PRPAU  TRANSFER   PH,11
00024570  2657          667   PRPAU  TEST NE    PB36,1,PRPAV     IS THIS NOT A CHECK FLIGHT A/C
00024580  2658          668          SPLIT      1,PRPAS          TRY FOR REPLACEMENT A/C
00024590  2659          669   PRPAV  ASSIGN     24-25,0,PB       RESET
00024600  2660          670          ASSIGN     45,0,PH          RESET
00024610  2661          671          TEST E     PB9,3,USAAA      IS A/C IN AIR CREW INSPECTION
00024620  2662          672          ASSIGN     27,1,PB          SET ABORT INDICATOR
00024630  2663          673          MSAVEVALUE PH14+,13,PB16,1,MX      GROUND ABORTS THIS MISSION
00024640  2664                *                                        TYPE
00024650  2665          674          MSAVEVALUE PH14+,13,V$MHMC,1,MX    TOTAL GROUND ABORTS
00024660  2666          675          TRANSFER   ,USAAA
00024670  2667          676   PRPAQ  TEST LE    C1,PF6,PRPAZ     HAS LAUNCH WINDOW NOT YET EXPIRED
00024680  2668          677   PRPBA  SAVEVALUE  PREP,PH25,XH     MH INDEX - A/C PREPARATION
00024690  2669          678          SAVEVALUE  MTYP,PB16,XB     SCHEDULED MISSION TYPE
00024700  2670          679          SAVEVALUE  PREP,PH25,XH     MH INDEX - A/C PREPARATION
00024710  2671          680          ASSIGN     1,V$TPRP2,PH     MINIMUM A/C PREPARATION TIME
00024720  2672          681          SCAN       PLNCH,5PF,PF5,,,PRPAZ   IS LAUNCH STILL PENDING
00024730  2673          682          TEST GE    V$TTLW,PH1,PRPAZ STILL TIME TO MAKE THIS LAUNCH
00024740  2674          683          GATE LR    PRPA1            LET 1 XACT IN
00024750  2675          684          LOGIC S    PRPA1            CLOSE THE GATE
00024760  2676          685          SAVEVALUE  MTYP,PB16,XB     MISSION TYPE
00024770  2677          685          ALTER      MH$GRP(7,PB5),ALL,7PF,PF6     GIVE LAUNCH WINDOW
00024780  2678                *                                               EXPIRATION TIME TO
00024790  2679                *                                               SQUADRON
00024800  2680          687          UNLINK     PH7,PRPAT,1,BV$AVALP,,PRPAE   TRY FOR A READY A/C
00024810  2681                *                                               REPLACEMENT
00024820  2682          688   PRPBE  JOIN       PRPA1            TO COMMUNICATE WITH UNLINKED XACT
00024830  2683          689          PRIORITY   0,BUFFER         PROCESS ALL XACTS
00024840  2684          690          REMOVE     PRPA1
00024850  2685          691          LOGIC R    PRPA1            OPEN THE GATE
00024860  2686          692   PRPAZ  TERMINATE
00024870  2687          693   PRPAE  UNLINK     PH26,PRPAT,1,BV$AVALU,,PRPAM  TRY FOR A MISSION
00024880  2688                *                                               CAPABLE A/C IN MAINT.
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GPSS/H  VM/370 RELEASE 1.0 (AY162)       10 DEC 82  10:40:34    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00024890  2689          694         TRANSFER   ,PRPBE
00024900  2690          695   PRPAA LOGIC R    PRPA1             OPEN THE GATE
00024910  2691          696         ADVANCE    1                 WAIT 1 CLOCK UNIT
00024920  2692          697         TRANSFER   ,PRPBA
00024930  2693          698   PRPAT SCAN       PRPA1,5PB,PB5,16PH,16PB MISSION TYPE
00024940  2694          699         SCAN       PRPA1,5PH,PB5,18PB,18PB MISSION PRIORITY
00024950  2695          700         SCAN       PRPA1,5PH,PB5,20PB,20PB MISSION DURATION
00024960  2696          701         SCAN       PRPA1,5PB,PB5,3PF,3PF   GET SCHEDULED LAUNCH TIME
00024970  2697          702         SCAN       PRPA1,5P3,PB5,4PF,4PF   GET LAUNCH SERIAL NUMBER
00024980  2698          703         SCAN       PRPA1,5PH,PB5,5PF,5PF   GET MISSION SERIAL NUMBER
00024990  2699          704         SCAN       PRPA1,5PB,PB5,6PF,6PF   GET LAUNCH WINDOW EXPIRATION
00025000  2700                  *                                      TIME
00025010  2701          705         SCAN       PRPA1,5P3,PB5,39PH,39PH AIR PLAN INDEX NUMBER
00025020  2702          706         SCAN       PRPA1,5PB,PB5,9PH,9PH   COLUMN NUMBER - MH$OPS
00025030  2703          707         SCAN       PRPA1,5PB,PB5,8PH,8PH   LAUNCH EVENT NUMBER
00025040  2704          708         SCAN       PRPA1,5P3,PB5,25PH,25PB GET STANDBY INDICATOR
00025050  2705          709         TEST E     P925,0,PRPAX      IS THIS A/C NOT REPLACING A STANDBY
00025060  2706          710         ASSIGN     24,0,PB           RESET
12/10/82  2707          711   PRPAX ASSIGN     16,0,PF           CLEAR THIS PARAM.
12/10/82  2708          712         TEST E     BV$CYOPS,1,PRPAA  CYCLIC OPS
00025080  2709          713         TEST E     PB34,1,PRPAA      IS A/C ON HANGAR DECK
12/10/82  2710          714         ASSIGN     16,MH$COMPL(16,PB5),PH  RESPOT TIME
00025090  2711          715         TRANSFER   SBR,RSPFA,11PH    RESPOT TO FLIGHT DECK
00025100  2712          716         TRANSFER   ,PRPAA
00025110  2713          717   PRPBB ASSIGN     9,9,PB            ACTIVITY = ORDNANCE LOAD
00025120  2714          718         TRANSFER   SBR,LINA,11PH     ORDNANCE LOAD
00025130  2715          719         TRANSFER   ,PRPAJ
00025140  2716          720   PRPBC ASSIGN     11,PRPBD,PH       BLOCK DESTINATION
00025150  2717          721         TRANSFER   ,PRPAK
00025160  2718                  *
00025170  2719                  *
00025180  2720                  *
00025190  2721                  ***** PAGE LNCH - LAUNCH ROUTINE *****
00025200  2722          722   LNCHA GATE LR    LNCH1             LET 1 XACT IN
00025210  2723          723         LOGIC S    LNCH1             CLOSE THE GATE
00025220  2724          724         PRIORITY   0,BUFFER          PROCESS ALL OTHER XACTS
00025230  2725          725   LNCHB UNLINK     LNCH,LNCHC,ALL,5PF      ALERT A/C THIS MISSION
00025240  2726          726         ASSIGN     20,M$LNCHB,PB     NR. OF ALERT A/C AVAILABLE
00025250  2727          727         BUFFER                       PROCESS UNLINKED XACTS
00025260  2728          728         TEST GE    PB20,PB18,LNCHD   ARE SUFFICIENT ALERT A/C AVAILABLE
00025270  2729          729   LNCHM UNLINK     LNCH,FLTA,ALL,5PF       LAUNCH THIS MISSION
00025280  2730          730         UNLINK     STBY,LNCHR,ALL,5PF      STANDBY A/C NOT USED
00025290  2731          731         REMOVE     PLNCH             PENDING LAUNCHES
00025300  2732          732         LOGIC R    LNCH1             OPEN THE GATE
00025310  2733          733         TEST G     C1,PF3,LNCHN      DELAYED LAUNCH
00025320  2734          734         MSAVEVALUE PH199,20,PB16,1,MX      DELAYED LAUNCH EVENTS THIS
00025330  2735                  *                                      MISSION TYPE
00025340  2736          735         MSAVEVALUE PH199,20,V$MHNC,1,MX    TOTAL DELAYED LAUNCH EVENTS
00025350  2737          736   LNCHN TERMINATE
00025360  2738          737   LNCHC LINK       LNCH,FIFO         A/C AWAITING LAUNCH
00025370  2739          738   LNCHD UNLINK     STBY,LNCHE,ALL,5PF,,LNCHD    STANDBY A/C AVAILABLE AT
00025380  2740                  *                                      LAUNCH
00025390  2741          739         ASSIGN     21,M$LNCHD,PH     NR. OF STANDBY A/C AVAILABLE
00025400  2742          740         BUFFER                       PROCESS UNLINKED XACTS
00025410  2743          741         TEST GE    PB21,V$SSYMS,LNCHG      ARE SUFFICIENT STANDBY A/C
00025420  2744                  *                                      AVAILABLE TO FULFILL MISSION
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GPSS/H  VM/37  RELEASE 1.0 (AY192)        10 DEC 82  10:40:30     FILE: A7ENCOPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00025430  2745            742          UNLINK     STBY,LNCHH,V$SBYMS,5PF  SEND STANDBY A/C TO LAUNCH
00025440  2746                       *                                    CHAIN
00025450  2747            743   LNCHL  BUFFER                          PROCESS UNLINKED XACTS
00025460  2748            744          TRANSFER   ,LNCHM
00025470  2749            745   LNCHE  LINK       STBY,FIFO            STANDBY A/C CHAIN
00025480  2750            746   LNCHH  ASSIGN     24,,PH               RESET
00025490  2751            747          MSAVEVALUE PH14*,11,PB15,1,MX       SORTIES THIS MISSION TYPE
000254A0  2752                       *                                    FLOWN BY STANDBY A/C
000254B0  2753            748          MSAVEVALUE PH14*,11,V$MHMC,1,MX     TOTAL SORTIES FLOWN BY
000254C0  2754                       *                                    STANDBY A/C
000254D0  2755            749          LINK       LNCH,FIFO            A/C AWAITING LAUNCH
000254E0  2756            750   LNCHU  TEST L     PB20,PB12,LNCHP      INSUFFICIENT A/C AVAILABLE TO FLY
000254F0  2757                       *                                    A MINIMUM MISSION
00025500  2758            751          TEST E     C1,PF6,LNCHK         HAS LAUNCH WINDOW EXPIRED
00025510  2759            752   LNCHF  MSAVEVALUE PH14*,12,PB16,1,MX       MISSIONS CANCELLED -
00025520  2760                       *                                    INSUFFICIENT A/C AVAILABLE
00025530  2761                       *                                    THIS MISSION TYPE
00025540  2762            753          MSAVEVALUE PH14*,12,V$MHMC,1,MX     TOTAL MISSIONS CANCELLED -
00025550  2763                       *                                    INSUFFICIENT A/C AVAILABLE
00025560  2764            754          UNLINK     LNCH,LNCHI,ALL,5PF       A/C AWAITING LAUNCH
00025570  2765            755          UNLINK     STBY,LNCHR,ALL,5PF       STANDBY A/C THIS LAUNCH
00025580  2766            756          TEST NE    PF6,PF3,LNCHS            WAS THERE A LAUNCH WINDOW
00025590  2767            757          MSAVEVALUE PH14*,21,PB16,1,MX       MISSIONS CANCELLED THIS
000255A0  2768                       *                                    MISSION TYPE - LAUNCH WINDOW
000255B0  2769                       *                                    EXPIRED
000255C0  2770            758          MSAVEVALUE PH14*,21,V$MHMC,1,MX     TOTAL MISSIONS CANCELLED -
000255D0  2771                       *                                    LAUNCH WINDOW EXPIRED
000255E0  2772            759   LNCHS  REMOVE     PLNCH                PENDING LAUNCHES
000255F0  2773            760          LOGIC R    LNCH1                OPEN THE GATE
00025600  2774            761          TERMINATE
00025610  2775            762   LNCHK  LOGIC R    LNCH1                OPEN THE GATE
00025620  2776            763          ADVANCE    1
00025630  2777            764          TRANSFER   ,LNCHA
00025640  2778            765   LNCHI  TEST E     BV$AVALF,0,LNCHJ     CAN A/C NOT FLY ALL MISSION TYPES
00025650  2779            766          TRANSFER   SBR,CPBA,3,PH        DETERMINE REMAINING MISSION
00025660  2780                       *                                    CAPABILITY
00025670  2781            767          TEST E     XB$MCAP,1,USAAA      CAN A/C FLY AT LEAST 1 REMAINING
00025680  2782                       *                                    MISSION
00025690  2783            768   LNCHJ  ASSIGN     9,1,PH               ACTIVITY = AVAILABLE FOR MISSION
000256A0  2784            769          ASSIGN     45,PH$,PH            CURRENT LAUNCH EVENT NUMBER
000256B0  2785            770          ASSIGN     26,PB16,PB           CURRENT MISSION TYPE
000256C0  2786            771          LINK       PH7,3PB              A/C NOT IN MAINTENANCE
000256D0  2787            772   LNCHG  TEST GE    PB21,V$SHYMN,LNCHF       ARE SUFFICIENT STANDBY A/C
000256E0  2788                       *                                    AVAILABLE TO FLY A MINIMUM
000256F0  2789                       *                                    MISSION
00025700  2790            773   LNCHP  MSAVEVALUE PH14*,10,PB16,1,MX       MISSIONS THIS TYPE FLOWN
00025710  2791                       *                                    WITH REDUCED NUMBER OF A/C
00025720  2792            774          MSAVEVALUE PH14*,10,V$MHMC,1,MX     TOTAL MISSIONS FLOWN WITH
00025730  2793                       *                                    REDUCED NUMBER OF A/C
00025740  2794            775          UNLINK     STBY,LNCHH,ALL,5PF       SEND STANDBY A/C TO LAUNCH
00025750  2795                       *                                    CHAIN
00025760  2796            776          TRANSFER   ,LNCH
00025770  2797            777   LNCHR  ASSIGN     25,,PB               RESET
00025780  2798            778          ASSIGN     24,1,PB              A/C WAS PREVIOUSLY A STANDBY
00025790  2799            779          TRANSFER   ,LNCHI
000257A0  2800                       *
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       15 DEC 82  10:40:04    FILE: A7ENCOPS

LINE#  STMT#  IF UJ  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00025950  2851                *
00026000  2852                *
00026010  2853                ***** PAGE FLT - SORTIE ROUTINE *****
00026020  2854          730   FLTA  ASSIGN     9,5,PB            ACTIVITY. 5=IN FLIGHT
00026030  2855          731         ASSIGN     24-25,0,PB        RESET
00026040  2856          732         ENTER      AIR               IN FLIGHT
00026050  2857          733         ENTER      MH$STO(40,PB5)    IN FLIGHT THIS SQUADRON
00026060  2858          734         MARK       1,PF              TIME LAUNCHED
12/10/82  2859          735         TEST L     XH$SORRO,300,FSETC     *ISI*   CHECK THE ROW NO.
12/10/82  2810          736   FSETR SAVEVALUE  SORRO+,1,XH    *ISI*   INCREMENT THE ROW NO.
12/10/82  2811          737         MSAVEVALUE SORC1,XH$SORRO,XB$SORCO,PF10,MX  *ISI*  STORE LAUNCH T
00026070  2812          738         MSAVEVALUE PH14*,6,PB16,1,MX SORTIES LAUNCHED THIS MISSION TYPE
00026080  2813          739         MSAVEVALUE PH14*,6,V$MHMC,1,MX      TOTAL SORTIES LAUNCHED
00026090  2814          740         TEST E     PB3,1,FLTK        IS A/C OPC
00026100  2815          741         MSAVEVALUE PH14*,19,PB16,1,MX       A/C OPC AT LAUNCH THIS MISSION
00026110  2816                *                                     TYPE
00026120  2817          742         MSAVEVALUE PH14*,19,V$MHMC,1,MX     TOTAL A/C OPC AT LAUNCH
00026130  2818          743   FLTK  ASSIGN     23,9,PB           SYSTEM/SUBSYSTEM MATRIX COLUMN -
00026140  2819                *                                     WHEN DISCOVERED = IN FLIGHT
00026150  2820          744         TRANSFER   SBR,DISAA,11PH    TEST FOR DISCREPANCIES
00026160  2821          745         TABULATE   MH$TAB(1,PB5)     INFLIGHT DISCREPANCIES
00026170  2822          746         TEST E     PB23,0,FLTB       NO NEW DISCREPANCIES
00026180  2823          747         MSAVEVALUE PH14*,7,PB16,1,MX        SORTIES COMPLETED WITHOUT
00026190  2824                *                                     DISCREPANCIES THIS MISSION
00026200  2825                *                                     TYPE
00026210  2826          748         MSAVEVALUE PH14*,7,V$MHMC,1,MX      TOTAL SORTIES COMPLETED
00026220  2827                *                                     WITHOUT DISCREPANCIES
00026230  2828          749   FLTC  ADVANCE    PB20              FLY MISSION
00026240  2829          800   FLTD  MSAVEVALUE PH14*,6,PB16,MP10PF,MX  TOTAL FLYING TIME THIS
00026250  2830                *                                     MISSION TYPE
00026260  2831          801         MSAVEVALUE PH14*,6,V$MHMC,MP10PF,MX       TOTAL SQUADRON FLYING
00026270  2832                *                                     TIME
00026280  2833          802         MARK       11PF              TIME LANDED
00026290  2834          803         LEAVE      MH$STO(40,PB5)    IN FLIGHT THIS SQUADRON
00026300  2835          804         LEAVE      AIR               IN FLIGHT
00026310  2836          805         ASSIGN     34,2,PB           A/C IS ON FLIGHT DECK
00026320  2837          806         ASSIGN     36,0,PB           RESET
00026330  2838          807         TEST NE    PB23,0,FLTE       ANY NEW DISCREPANCIES
00026340  2839          808         SAVEVALUE  TAILNF,PB3,XB     TAIL NUMBER THIS A/C
00026350  2840          809         SAVEVALUE  TLAU,PF10,XF      TIME LAUNCHED
00026360  2841          810         UNLINK     PH23,FLTH,ALL,BV$INFTD  IN-FLIGHT DISCREPANCIES THIS
00026370  2842                *                                     A/C
00026380  2843          811         PRIORITY   30,BUFFER         PROCESS UNLINKED XACT(S)
00026390  2844          812         PRIORITY   90                NORMAL PRIORITY
00026400  2845          813         TRANSFER   SBR,UPDAA,10PH    UPDATE SCIR STATISTICS
00026410  2846          814         TEST NE    PB31,PB0,FLTC     DID STATUS CHANGE OCCUR
00026420  2847          815         TRANSFER   SBR,CHRCA,15PH    UPDATE A/C MISSION CAPABILITY
00026430  2848          816   FLTE  MSAVEVALUE PH15*,PB21,11,1,MX       SORTIES THIS A/C
00026440  2849          817         MSAVEVALUE PH15*,V$(EDIR,11,1,MX    TOTAL SORTIES THIS SQUADRON
00026450  2850          818         MSAVEVALUE PH15*,PB21,11,MP10PF,MX        FLIGHT TIME THIS A/C
00026460  2851          819         MSAVEVALUE PH15*,V$(EDIR,11,MP10PF,MX     TOTAL SQDRN FLIGHT TIME
00026470  2852          820         MSAVEVALUE PH14*,FN$PTR11,PB16,1,MX       TIMES RECOVERED THIS
00026480  2853                *                                     STATUS THIS MISSION TYPE
00026490  2854          821         MSAVEVALUE PH14*,FN$PTR11,V$MHMC,1,MX     TOTAL TIMES RECOVERED
00026500  2855                *                                     THIS STATUS
00026510  2856          822         TEST L     MH$TYPE(0,PB5),2,FLTF  OPERATING UNDER PHASED MAINT.
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GPSS/H  VM/37  RELEASE 1.3 (AY142)       16 DEC 82  16:40:34    FILE: A7ENCOPS

   LINE#  STMT#  IF  DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00026520   2857              823         ASSIGN     37-,MP1UPF,PH     FLIGHT TIME UNTIL NEXT PHASED INSP.
 00026530   2858              824   FLTF  TRANSFER   ,PFAA
 00026540   2859              825   FLTB  TEST E     PB27,1,FLTC       DID AIR ABORT OCCUR
 00026550   2860              826         MSAVEVALUE PH19*,14,PB10,1,MX      AIR ABORTS THIS MISSION TYPE
 00026560   2861              827         MSAVEVALUE PH19*,14,V$MHMC,1,MA    TOTAL AIR ABORTS
 00026570   2862              828         ADVANCE    MP1,PF            RETURN TO CARRIER
 00026580   2863              829         TRANSFER   ,FLTD
 00026590   2864              830   FLTH  MARK       2PF               CHANGE CREATION TIME
 00026600   2865              831         TRANSFER   SBR,RANA,11PH     REPAIR ANALYSIS
 00026610   2866              832         LINK       PH6,14PH          DISCREPANCIES THIS SQUADRON
*12/10/82   2867              833   FSETC SAVEVALUE  SQRRO,C,4H   *ISI*  RESET THE ROW NO.
*12/10/82   2868              834         SAVEVALUE  SQRCO+,1,XB   *ISI*  INC. THE COL. NO.
*12/10/82   2869              835         TRANSFER   ,FSETR  *ISI*  SET THE ROW NO.
 00026620   2870                    *
 00026630   2871                    *
 00026640   2872                    *
 00026650   2873                    ***** PAGE PFA - POSTFLIGHT ROUTINE *****
 00026660   2874              836   PFAA  ASSIGN     40,0,PB           RESET GROUND CREW PREFLIGHT NOT
 00026670   2875                    *                                  NEEDED FLAG
 00026680   2876              837         TRANSFER   SBR,CPBA,33PH     DETERMINE REMAINING MISSION
 00026690   2877                    *                                  CAPABILITY THIS A/C
 00026700   2878              838         TEST NE    X$SKEMLA,0,PFAD   MORE SCHEDULED LAUNCHES THIS DAY
 00026710   2879              839         TEST E     BV$AVALF,1,PFAB   CAN A/C FLY ALL MISSION TYPES
 00026720   2880              840   PFAC  ASSIGN     9,6,PB            ACTIVITY = TURNAROUND INSPECTION
 00026730   2881              841         TRANSFER   SBR,LINA,11PH     PERFORM TURNAROUND INSPECTION
 00026740   2882              842   PFAJ  ASSIGN     23,4,PB           SUBSYSTEM MX COLUMN INDEX -
 00026750   2883                    *                                  WHEN DISCOVERED = TURNAROUND
 00026760   2884              843         TRANSFER   SBR,DISAA,11PH    TEST FOR DISCREPANCIES
 00026770   2885              844         ASSIGN     30,6,PB           LAST INSPECTION = TURNAROUND
 00026780   2886              845         MARK       13PF              TIME LAST TURNAROUND INSPECTION
 00026790   2887                    *                                  COMPLETED
 00026800   2888              846         ASSIGN     40,1,PB           GROUND CREW PREFLIGHT NOT NEEDED
 00026810   2889                    *                                  FLAG
 00026820   2890              847         TEST E     PB23,0,PFAE       NO NEW DISCREPANCIES
 00026830   2891              848         TRANSFER   ,PFAF
 00026840   2892              849   PFAD  TEST E     PB23,0,USAAA      DOES NOT THIS A/C NEED UNSCHEDULED
 00026850   2893                    *                                  MAINTENANCE
 00026860   2894              850         LINK       PH7,3PB           A/C NOT IN MAINTENANCE
 00026870   2895              851   PFAB  TEST E     BV$CYDPS,1,PFAI   CYCLIC DPS
 00026880   2896              852         TEST NE    MH$COMPL(5,PB5),0,PFAI  IS IN-CYCLE MAINTENANCE
 00026890   2897                    *                                        OPTION IN EFFECT
 00026900   2898              853         TRANSFER   ,ICMAA
 00026910   2899              854   PFAI  TEST NE    PH8,26,USAAA      IS A/C PMC
 00026920   2900              855         TRANSFER   ,PFAC
 00026930   2901              856   PFAE  TRANSFER   SBR,UPDAA,15PH    UPDATE SCIK STATISTICS
 00026940   2902              857         TEST NE    PH31,PH8,PFAF     WAS THERE A STATUS CHANGE
 00026950   2903              858         TRANSFER   SBR,CHMCA,16PH    UPDATE A/C MISSION CAPABILITY
 00026960   2904              859   PFAF  TEST NE    PB3,26,USAAA      IS THE A/C STILL MISSION CAPABLE
 00026970   2905              860         TEST E     BV$AVALF,0,PFAG   CAN A/C NOT FLY ALL MISSION TYPES
 00026980   2906              861         TEST NE    X$$MCAP,0,USAAA   CAN A/C FLY AT LEAST 1 REMAINING
 00026990   2907                    *                                  SCHEDULED MISSION TYPE
 00027000   2908              862   PFAG  ASSIGN     9,1,PB            AVAILABLE FOR LAUNCH CALL
 00027010   2909              863         LINK       PH7,3PB           A/C NOT IN MAINTENANCE
 00027020   2910                    *
 00027030   2911                    *
 00027040   2912                    *
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GPSS/H  VM/370 RELEASE 1.0 (AY162)       10 DEC 82  10:40:09    FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00027050  2913              ***** PAGE ICM - IN-CYCLE FLIGHT DECK MAINTENANCE ROUTINE *****
00027060  2914              * PAGE ICMA - DETERMINE POSSIBILITY OF IN-CYCLE MAINTENANCE
00027070  2915          864  ICMAA GATE LR     ICMA1               LET 1 XACT IN
00027080  2916          865        LOGIC S     ICMA1               CLOSE THE GATE
00027090  2917          866        LOGIC R     ICMA2               RESET
00027100  2918          867        SAVEVALUE   ICMA1,0,XB          RESET
00027110  2919          868        ASSIGN      4,,PB               RESET GROUND CREW PREFLIGHT NOT
00027120  2920              *                                      NEEDED FLAG
00027130  2921          869  ICMAB UNLINK      PH28,ICMAB,ALL,4PB      DISCREPANCIES THIS A/C
00027140  2922          870        SAVEVALUE   ICMA2,N$ICMAB,XB    NUMBER OF UNLINKED XACTS
00027150  2923          871        GATE LS     ICMA5               PROCESS UNLINKED XACT(S)
00027160  2924          872        LOGIC R     ICMA5               RESET
00027170  2925          873        TEST NE     BV$ICMA1,1,ICMAC    IS IN-CYCLE MAINTENANCE NOT POSSIBLE
00027180  2926          874        UNLINK      ICMA1,ICMAD,1       XACT ON HOLDING CHAIN
00027190  2927          875        PRIORITY    40,BUFFER           PROCESS UNLINKED XACT
00027200  2928          876        PRIORITY    90                  NORMAL A/C PRIORITY
00027210  2929          877        LOGIC R     ICMA1               OPEN THE GATE
00027220  2930          878        TRANSFER    ,PFAC
00027230  2931          879  ICMAB TEST GE     V$CMCOD,2,ICMAP     IS THIS DISCREPANCY AFFECTING
00027240  2932              *                                      MISSION CAPABILITY
00027250  2933          880        SAVEVALUE   ICMA1+,1,XB         COUNT THIS DISCREPANCY
00027260  2934          881        GATE LR     ICMA2,ICMAP         LET 1 XACT IN
00027270  2935          882        LOGIC S     ICMA2               CLOSE THE GATE
00027280  2936          883        SCAN        PLNCH,5P8,P85,6PF,1PF,ICMAP   GET TIME OF NEXT LAUNCH
00027290  2937          884        TEST G      PF1,C1,ICMAP        SHOULD BE LATER THAN NOW
00027300  2938          885        TEST L      R43,MH*PH19(PH20,32),ICMAP     IS IN-CYCLE MAINTENANCE
00027310  2939              *                                      POSSIBLE THIS OCCASION
00027320  2940          886        TEST L      MH*PH19(PH20,22),V$ICMA1,ICMAP      IS THERE ENOUGH
00027330  2941              *                                      TIME FOR THE REPAIR
00027340  2942          887        SCAN        PH15,3PF,PF3,,,ICMAE    HAS REPAIR BEEN ANALYZED
00027350  2943          888  ICMAN UNLINK      PH19,ICMAF,1,3PF,,ICMAG      DEFERRED REPAIRS
00027360  2944          889        LOGIC S     ICMA4               REPAIR CAME FROM DEFERRED CHAIN
00027370  2945          890  ICMAD PRIORITY    PR,BUFFER           PROCESS UNLINKED XACT
00027380  2946          891        GATE LR     ICMA3,ICMAK         IS MANPOWER AVAILABLE
00027390  2947          892        SAVEVALUE   ICMA2-,1,XB         DECREMENT COUNTER
00027400  2948          893        TEST E      X$$ICMA2,0,ICMAR    IS THIS THE LAST DISCREPANCY XACT
00027410  2949          894        LOGIC S     ICMA5               PROCESS A/C XACT
00027420  2950          895  ICMAK LINK        ICMA1,FIFO          HOLDING CHAIN
00027430  2951          896  ICMAG UNLINK      PH9,ICMAF,1,3PF,,DBG29   REPAIRS ANM
00027440  2952              TRANSFER    ,ICMAD
00027450  2953          898  ICMAK LOGIC R     ICMA3               RESET
00027460  2954          899        TRANSFER    ,ICMAP
00027470  2955          900  ICMAC UNLINK      ICMA1,ICMAL,1       XACT ON HOLDING CHAIN
00027480  2956          901        PRIORITY    40,BUFFER           PROCESS UNLINKED XACT
00027490  2957          902        PRIORITY    42                  SET A/C PRIORITY
00027500  2958          903        ASSIGN      14,1,PH             IN-CYCLE MAINTENANCE FLAG
00027510  2959          904        ASSIGN      13,P83,PH           STATUS PRIOR TO IN-CYCLE MAINTENANCE
00027520  2960          905        LOGIC R     ICMA1               OPEN THE GATE
00027530  2961          906        TRANSFER    ,ICMBA
00027540  2962          907  ICMAL PRIORITY    42                  RAISE DISCREPANCY PRIORITY
00027550  2963          908        ALTER       PH15,1,PR,PR,3PF,PF3     RAISE REPAIR PRIORITY
00027560  2964          909  ICMAD LINK        PH5,FIFO            CURRENT DISCREPANCIES
00027570  2965          910  ICMAF LOGIC R     ICMA3               RESET
00027580  2966          911        GATE LR     SCDI                IS THERE NOT A SHIFT CHANGE
00027590  2967          912        TEST NE     X$$DSHFT,,,ICMAH    IS THERE A CURRENT SHIFT
00027600  2968          913        ASSIGN      14,X$$DSHFT,PH      CURRENT SHIFT
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GPSS/H  VM/37- RELEASE 1.0 (AY142)      10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00027610   2969          914          ASSIGN     44,PH*V$4CORG,PH      STORAGE INDEX = ORG. WORK CTR.
 00027620   2970          915          TEST G     K*P444,P338,ICMAH     IS MANPOWER AVAILABLE
 00027630   2971          915   ICMAI  GATE LS    ICMA4,ICMAJ           DID REPAIR COME FROM DEFERRED
                          *                                            REPAIR CHAIN
 00027640   2972
 00027650   2973          917          LOGIC R    ICMA4                 RESET
 00027660   2974          918          LINK       PH14,14PH             DEFERRED REPAIRS
 00027670   2975          919   ICMAJ  LINK       PH9,14PH              REPAIRS AWM
 00027680   2976          920   ICMAH  LOGIC S    ICMA3                 MANPOWER NOT AVAILABLE
 00027690   2977          921          TRANSFER   ,ICMAI
 00027700   2978          922   ICMAE  SPLIT      1,ICMAM               TO PERFORM REPAIR ANALYSIS
 00027710   2979          923          LINK       PH5,LIFO              CURRENT DISCREPANCIES
 00027720   2980          924   ICMAM  TRANSFER   SBR,RANA,11PH         REPAIR ANALYSIS
 00027730   2981          925          UNLINK     PH5,ICMAN,1,3PF       DISCREPANCY THIS REPAIR
 00027740   2982          925          TERMINATE
 00027750   2983          927   ICMAP  SAVEVALUE  ICMA2-,1,XB          DECREMENT COUNTER
 00027760   2984          928          TEST E     X6$ICMA2,0,ICMAS      IS THIS THE LAST DISCREPANCY XACT
 00027770   2985          929          LOGIC S    ICMA5                 PROCESS A/C XACT
 00027780   2986          930   ICMAS  LINK       PH5,FIFO              CURRENT DISCREPANCIES
 00027790   2987                      *
 00027800   2988                      *
 00027810   2989                      *
 00027820   2990                      * PAGE ICM8 - PERFORM IN-CYCLE MAINTENANCE AND TURNAROUND INSPECTION
 00027830   2991          931   ICMBA  ASSIGN     1,0,PB                RESET
 00027840   2992          932          SPLIT      1,ICMBB,1PB           TO PERFORM LINE INSPECTION
 00027850   2993          933          ASSIGN     21,MH$STO(8,PB5),PH   EVENT STORAGE
 00027860   2994          934          ENTER      PH21                  EVENT STORAGE
 00027870   2995          935          TRANSFER   ,USAAA
 00027880   2996          935   ICMBB  ASSIGN     9,6,PH                ACTIVITY = TURNAROUND INSPECTION
 00027890   2997          937          TRANSFER   SBR,LINA,11PH         PERFORM TURNAROUND INSPECTION
 00027900   2998          938   ICMBC  GATHER     2                     WAIT UNTIL BOTH TURNAROUND
 00027910   2999                      *                                INSPECTION AND IN-CYCLE MAINTENANCE
 00027920   3000                      *                                HAVE BEEN PERFORMED
 00027930   3001          939          TEST E     PB1,1,ICMBD           IS THIS THE PARENT XACT
 00027940   3002          940          TRANSFER   ,PFAJ
 00027950   3003          941   ICMBD  TERMINATE
 00027960   3004                      *
 00027970   3005                      *
 00027980   3006                      *
 00027990   3007                      ***** PAGE US - UNSCHEDULED MAINTENANCE ROUTINE *****
 00028000   3008                      * PAGE USA - RESPOT SUBROUTINE
 00028010   3009          942   USAAA  ASSIGN     35,0,PB               RESET
 00028020   3010          943          ASSIGN     40,0,PB               RESET GROUND CREW PREFLIGHT NOT
                          *                                            NEEDED FLAG
 00028030   3011
 00028040   3012          944          TEST NE    PB14,1,USAAD          IS THIS NOT IN-CYCLE MAINTENANCE
 00028050   3013          945          TEST E     MV$INMNT,0,USAAJ      IS A/C NOT ALREADY IN MAINTENANCE
 00028060   3014          945          ASSIGN     21,MH$QUE(6,PB5),PH   QUEUE/STORAGE INDEX = EVENT
* 12/10/82  3015          947          TEST E     PB13,0,USAAH          IS IN-MAINTANANCE FLAG NOT SET
* 12/10/82  3016          948          ASSIGN     13,1,PB               SET FLAG
 00028070   3017          949          SPLIT      1,USAAL,,5PB,21PH     TO JOIN EVENT QUEUE
* 12/10/82  3018          950   USAAH  ENTER      PH21                  EVENT
 00028080   3019          951   USAAJ  SPLIT      1,USAA8,,6PB,11PH     REPAIR ANALYSIS XACT
 00028090   3020          952          LINK       QRAN,FIFO             WAIT FOR REPAIR ANALYSIS
 00028110   3021          953   USAAK  TRANSFER   SBR,RANA,11PH         REPAIR ANALYSIS
 00028120   3022          954          UNLINK     QRAN,USAAC,1,4PB      A/C AWAITING REPAIR ANALYSIS
 00028130   3023          955          TERMINATE
 00028140   3024          956   USAAL  TEST L     MV$CYOPS,1,USAAK      CYCLIC OPS
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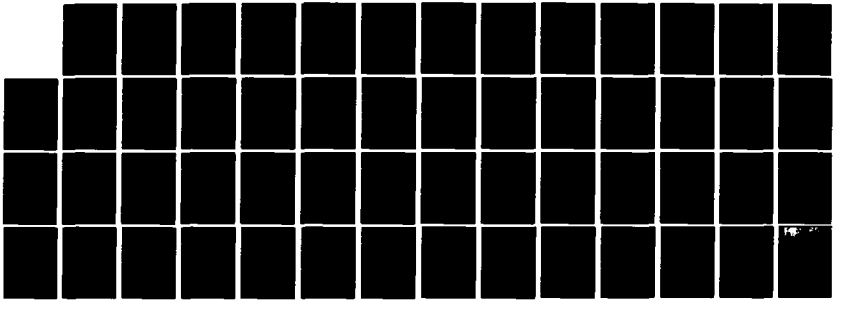
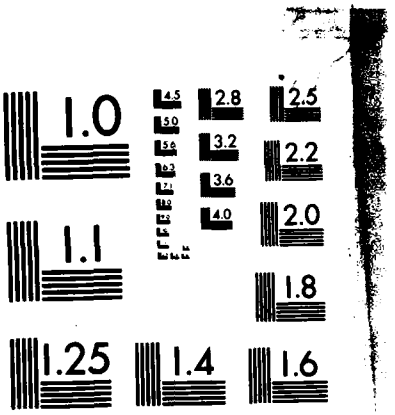
AD-A133 077 ENHANCEMENT AND VERIFICATION OF THE NAVY CASEE MODEL (CALENDAR YEAR 1982 TASK)(U) INFORMATION SPECTRUM INC ARLINGTON VA 15 DEC 82 ISI-V-1668-02 N60921-82-C-0010 2/2

UNCLASSIFIED F/G 9/2 NL





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   GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00028150  3025            957          TEST E     PB34,2,USAAK      DOES A/C NEED FLIGHT DECK RESPOT
00028160  3026            958          ASSIGN     15,V$RSPOT,PH     RESPOT TIME
00028170  3027            959          TEST L     PH15,MH$COMPL(17,PB5),USAAI   IS COMPUTED RESPOT TIME
00028180  3028                       *                                 LESS THAN MINIMUM
00028190  3029            950          ASSIGN     16,MH$CUMPL(17,PB5),PH  MINIMUM RESPOT TIME
00028200  3030            951  USAAI   GATE LS    RSPMQ,USAAG       OK TO RESPOT A/C
00028210  3031            952          TEST E     PB35,2,USAAM      CAN REPAIR BE DONE ON FLIGHT DECK
00028220  3032            953          ASSIGN     34,4,PB           LOCATION = RESPOT
00028230  3033            954          ADVANCE    PH18              RESPOT A/C
00028240  3034            965          ASSIGN     34,3,PB           LOCATION = FLIGHT DECK MAINT. SPOT
00028250  3035            966          TRANSFER   ,USAAK
00028260  3036            967  USAAG   SAVEVALUE  TAILNM,PB4,XB     A/C TAIL NUMBER
00028270  3037            968          UNLINK     PH30,USAAT,ALL,BV$SDAWM,,USAAU      SCIR-RELATED AWM
00028280  3038                       *                                 REPAIRS THIS A/C
00028290  3039            969          PRIORITY   35,BUFFER         PROCESS UNLINKED XACT(S)
00028300  3040            970          PRIORITY   90                NORMAL A/C PRIORITY
00028310  3041            971          TRANSFER   SBR,UPDAA,16PH    UPDATE SCIR STATISTICS
00028320  3042            972          UNLINK     USAA1,USAAV,ALL,4PB     XACT(S) ON HOLDING CHAIN
00028330  3043            973  USAAU   ASSIGN     11,USAAH,PH       UNLINK DESTINATION
00028340  3044            974          LINK       SPOTQ,24PH        AWAITING RESPOT
00028350  3045            975  USAAT   LINK       USAA1,FIFO        HOLDING CHAIN
00028360  3046            976  USAAV   ASSIGN     16,2,PB           NEW AWM REASON = SPACES/FACILITIES
00028370  3047            977          TRANSFER   SBR,CHDSA,33PH    UPDATE DISCREPANCY STATUS
00028380  3048            978          LINK       PH1?,14PH         REPAIRS AWM
00028390  3049            979  USAAH   GATE SNF   MH$STO(41,PB5),USAAG    IS HANGAR DECK SPACE AVAILABLE
00028400  3050            980          ENTER      MH$STO(41,PB5)    GET HANGAR DECK SPACE
00028410  3051            981          ASSIGN     34,4,PB           LOCATION = RESPOT
00028420  3052            982          ADVANCE    PH18              RESPOT A/C
00028430  3053            983          ASSIGN     34,1,PB           LOCATION = HANGAR DECK
00028440  3054            984  USAAK   ALTER      PH7,ALL,4PB,PB9,4PB,PB4       GIVE A/C ACTIVITY TO
00028450  3055                       *                                 ALL DISCREPANCIES
00028460  3056            985          ALTER      MH$GRP(8,PB5),ALL,4PB,PB9,4PB,PB4   GIVE A/C ACTIVITY
00028470  3057                       *                                 TO ALL REPAIRS
00028480  3058            986          SAVEVALUE  TAILNM,PB4,XB     A/C TAIL NUMBER
00028490  3059            987          TEST NE    PB14,1,USAAD      IS THIS NOT IN-CYCLE MAINTENANCE
00028500  3060            988          UNLINK     PH30,USBAA,ALL,BV$SDAWM SCIR-RELATED REPAIRS AWM THIS
00028510  3061                       *                                 A/C
00028520  3062            989          UNLINK     PH32,USBAA,ALL,BV$SDAWM SCIR-RELATED DEFERRED REPAIRS
00028530  3063                       *                                 THIS A/C
00028540  3064            990          UNLINK     PH31,USBAA,ALL,4PB      OTHER REPAIRS AWM THIS A/C
00028550  3065            991          UNLINK     PH32,USBAA,ALL,4PB      OTHER DEFERRED REPAIRS THIS
00028560  3066                       *                                 A/C
00028570  3067            992          UNLINK     PH31,USAAE,ALL,4PB      REPAIRS AWP THIS A/C
00028580  3068            993  USAAQ   TEST NE    PB9,11,USAAN      IS A/C NOT ALREADY IN UNSCHEDULED
00028590  3069                       *                                 MAINTENANCE
00028600  3070            994          ASSIGN     9,11,PB           ACTIVITY = UNSCHEDULED MAINTENANCE
00028610  3071            995          JOIN       PH34              A/C IN MAINTENANCE
00028620  3072            996          MSAVEVALUE PH14#,#,2,1,MH    INSPECTIONS BY EVENT
00028630  3073            997  USAAN   LINK       PH26,24PH         A/C IN MAINTENANCE
00028640  3074            998  USAAE   TEST NE    PB9,11,USAAF      WAS A/C NOT ALREADY IN MAINTENANCE
00028650  3075            999          TEST NE    V$CMCDL,26,D3623  NOT AN NMC DISCREPANCY
00028660  3076           1000  USAAF   TEST NE    MH#PH19(PH20,44),,USAAS      IS SPARE AVAILABLE
00028670  3077           1001          ASSIGN     17,2,PB           TASK = SUPPLY ACTION
00028680  3078           1002          TRANSFER   ,USBAA
00028690  3079           1003  USAAL   QUEUE      PH21              EVENT
00028700  3080           1004          MARK
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GPSS/H  V4/37C RELEASE 1.0 (AV142)        15 DEC 92  10:40:04    FILE: A7ENCUPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0002871C  3081          1035   USAAM MATCH      USBAT             WAIT FOR UNSCHED. MAINT. TO START
0002872C  3082          1036          DEPART     PH21              EVENT QUEUE
0002873C  3083          1037          TABULATE   MH$TAB(4,PB5)     UNSCHED. MAINT. QUEUE TIME
0002874C  3084          1038          TERMINATE
0002875C  3085          1039   USAAO  ASSIGN     35,2,P5           REPAIR CAN BE DONE ON FLIGHT DECK
0002876C  3086          1040          ASSIGN     10,1,PH           RESPOT TIME
0002877C  3087          1041          TRANSFER   ,USAAI
0002878C  3088          1042   USAAO  UNLINK     PH30,USAAP,ALL,BV$SDAMM SCIR-RELATED REPAIRS AMM THIS
0002879C  3089                 *                                   A/C
0002880C  3090          1043          UNLINK     PH32,USAAP,ALL,BV$SDAMM SCIR-RELATED DEFERRED REPAIRS
0002881C  3091                 *                                   THIS A/C
0002882C  3092          1044          UNLINK     PH30,USAAP,ALL,4PB      OTHER REPAIRS AMM THIS A/C
0002883C  3093          1045          UNLINK     PH32,USAAP,ALL,4PB      OTHER DEFERRED REPAIRS THIS
0002884C  3094                 *                                   A/C
0002885C  3095          1046          TRANSFER   ,USAAO
0002886C  3096          1047   USAAP  TEST E     PR,42,USAAR       IS THIS THE IN-CYCLE REPAIR XACT
0002887C  3097          1048          TRANSFER   ,USBAA
0002888C  3098          1049   USAAR  LINK       PH9,FIFO          REPAIRS AMM
0002889C  3099          1050   USAAS  LINK       PH10,FIFO         REPAIRS AMP
0002890C  3100                 *
0002891C  3101                 *
0002892C  3102                 *
0002893C  3103                 * PAGE USB - GET ORGANIZATIONAL MANPOWER
0002894C  3104          1051   USBAA  GATE LR    UPDA1             IS PAGE UPD SUBROUTINE IDLE
0002895C  3105          1052          GATE LR    UPSA1,USBAS       IS PAGE UPS SUBROUTINE IDLE
0002896C  3106          1053          TEST NE    PB17,17,USBAV     IS THIS NOT A CANNIBALIZATION
0002897C  3107                 *                                   REMOVAL
0002898C  3108          1054   USBAW  TEST E     PB30,0,USBAC      IS REPAIR NOT ALREADY IN AMM QUEUE
0002899C  3109          1055          QUEUE      MH$QUE(12,PB5)    REPAIRS AMM
0002900C  3110          1056          ASSIGN     30,1,PB           QUEUE FLAG = REPAIRS AMM
0002901C  3111          1057   USBAC  EXAMINE    PH41,PB4,USBAD    IS THIS A/C ALREADY USING THIS M.C.
0002902C  3112          1058   USBAE  ASSIGN     16,3,PB           AMM REASON = OTHER MAINT. ACTIONS
0002903C  3113          1059   USBAL  ASSIGN     11,2,PB           NEW REPAIR STATUS = AMM
0002904C  3114          1060          TEST NE    PH26,0,USBAF      IS DISCREPANCY SCIR-RELATED
0002905C  3115          1061          ASSIGN     31,PH30,PH        NEW EDC
0002906C  3116          1062          TEST E     BV$UPDA1,1,USBAF  UPDATE SCIR STATISTICS?
0002907C  3117          1063          GATE LR    UPDA1             IS PAGE UPD SUBROUTINE STILL IDLE
0002908C  3118          1064          UNLINK     PH17,USBAG,1,4PB,,,DoGD5 A/C IN UNSCH. MAINTENANCE
0002909C  3119          1065          PRIORITY   2,BUFFER          PROCESS UNLINKED XACT
0002910C  3120          1066          PRIORITY   40                NORMAL MAINT. ACTION PRIORITY
0002911C  3121          1067   USBAF  TRANSFER   SBR,CHDSA,33PH    UPDATE DISCREPANCY STATUS
0002912C  3122          1068          LINK       PH9,14PH          REPAIRS AMM
0002913C  3123          1069   USBAG  GATE LR    UPSA1             WAIT FOR PAGE UPS ROUTINE TO BECOME
0002914C  3124                 *                                   IDLE
0002915C  3125          1070          TRANSFER   ,USBAA
0002916C  3126          1071   USBAG  TRANSFER   SBR,UPDAA,16PH    UPDATE SCIR STATISTICS
0002917C  3127          1072          LINK       PH25,24PH         A/C IN MAINTENANCE
0002918C  3128          1073   USBAU  UNLINK     PH17,USBA8,1,4P3,,,USBAE       IS A/C AVAILABLE FOR
0002919C  3129                 *                                                 MAINTENANCE
0002920C  3130          1074          BUFFER                       PROCESS A/C XACT
0002921C  3131          1075          TEST E     PH31,0,USBAN      IS REPAIR NOT IN MANPOWER QUEUE
0002922C  3132          1076          QUEUE      PH42              MANPOWER
0002923C  3133          1077          ASSIGN     31,1,PB           QUEUE FLAG = MANPOWER
0002924C  3134          1078   USBAN  GATE LR    SCU1              IS THERE NOT A SHIFT CHANGE
0002925C  3135          1079          TEST NE    AM$USHFT,0,USBAK  IS THERE A CURRENT SHIFT
0002926C  3136          1080          ASSIGN     14,X3$USHFT,PB    CURRENT SHIFT
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GPSS/H  VM/370 RELEASE 1.0 (AY142)      10 DEC 82  10:40:04    FILE: A7ENCUPS

LINE#  STMT#  IF GO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00029270  3137          1051         ASSIGN     44,PH*V$WCORG,PH  STORAGE INDEX = WORK CENTER USED
00029280  3138          1052         TEST GE    K*PH44,PH38,USBAM IS MANPOWER AVAILABLE
00029290  3139          1053         GATE M     USAAM,USBAU       IS THIS THE FIRST REPAIR THIS EVENT
00029300  3140          1054  USBAT  MATCH      USAAM             LET A/C COPY XACT DEPART EVENT QUEUE
00029310  3141          1055         BUFFER                       PROCESS A/C COPY XACT
00029320  3142          1056  USBAU  ENTER      PH44,PB31         GET MANPOWER
00029330  3143          1057         JOIN       PH41,PB4          A/C USING THIS PRIMARY WORK CENTER
00029340  3144          1058         DEPART     PH42              PRIMARY MANPOWER QUEUE
00029350  3145          1059         DEPART     MH$QUE(12,PB5)    REPAIRS AWM
00029360  3146          1060         MARK       14PF              TIME ENTERED WORK CENTER
00029370  3147          1061         ASSIGN     47,0,PH           RESET
00029380  3148          1062         ASSIGN     30-31,0,PB        RESET QUEUE FLAGS
00029390  3149          1063         TEST E     PF11,0,USBAR      HAS THIS REPAIR NOT YET BEEN STARTED
00029400  3150          1064         MARK       11PF              MAINTENANCE START TIME
00029410  3151          1065         ASSIGN     21,0,PB           CLEAR THIS PARAMETER
00029420  3152          1066         ASSIGN     25,1,PB           MAINTENANCE STARTED FLAG
00029430  3153          1067         ALTER      PH5,1,25PB,1,3PF,PF3    MAINTENANCE STARTED FLAG
00029440  3154          1068  USBAR  ASSIGN     11,1,PB           REPAIR STATUS= IN WORK
00029450  3155          1069         TEST NE    PH28,0,USBAP      IS DISCREPANCY SCIR-REPATED
00029460  3156          1070         SAVEVALUE  SREOC,PH29,XH     IN-WORK EOC
00029470  3157          1071         TRANSFER   SBR,SROWA,35PH    DETERMINE ROW NUMBER - MX$SCIM_
00029480  3158          1072         ALTER      PH5,1,24PB,PB24,3PF,PF3      GIVE ROW NUMBER TO
00029490  3159                   *                                           DISCREPANCY
00029500  3160          1073         ASSIGN     31,PH29,PH        NEW EOC
00029510  3161          1074         TEST E     BV$UPDA1,1,USBAO  UPDATE SCIR STATISTICS
00029520  3162          1075         GATE LR    UPDA1             IS PAGE UPD SUBROUTINE STILL IDLE
00029530  3163          1076         UNLINK     PH17,USBAJ,1,4PB,,DBG40 A/C THIS MAINTENANCE ACTION
00029540  3164          1077         PRIORITY   20,BUFFER         PROCESS UNLINKED XACT
00029550  3165          1078         PRIORITY   40                NORMAL REPAIR PRIORITY
00029560  3166          1079  USBAO  TRANSFER   SBR,CHDSA,33PH    UPDATE DISCREPANCY STATUS
00029570  3167          1080         SCAN       PH7,4PB,PB4,4PB,8PB      CURRENT MISSION CAPABILITY
00029580  3168          1081         TEST G     V$NMCOD,PB8,USBAI        IS MISSION CAPABILITY FURTHER
00029590  3169                   *                                       DEGRADED
00029600  3170          1082         ASSIGN     8,V$NMCOD,PB      NEW MISSION CAPABILTY
00029610  3171          1083         ALTER      PH7,1,31PB,PB8,4PB,PB4   A/C MISSION CAPABILITY
00029620  3172          1084         UNLINK     PH17,USBAH,1,4PB,,D9G06 A/C THIS MAINTENANCE ACTION
00029630  3173          1085         PRIORITY   25,BUFFER         PROCESS UNLINKED XACT
00029640  3174          1086         PRIORITY   40                NORMAL REPAIR PRIORITY
00029650  3175          1087  USBAI  TEST NE    PB17,17,USBAZ     IS THIS NOT A CANNIBALIZATION ACTION
00029660  3176          1088         ALTER      PH7,1,4PH,PH4,4PB,PB4    SUBSYSTEM NUMBER
00029670  3177          1089         ASSIGN     9,11,PB           ACTIVITY = UNSCHEDULED MAINTENANCE
00029680  3178          1090         TRANSFER   ,FN$DTASK         MAINTENANCE TASK
00029690  3179          1091  USBAZ  TEST E     PF11,C1,USEAA     HAS THIS CANNIBALIZATION NOT ALREADY
00029700  3180                   *                                 BEGUN
00029710  3181          1092         UNLINK     PH17,USBAQ,1,4PB,,DBG10 CANNIBALIZATION VICTIM A/C
00029720  3182          1093         TRANSFER   ,USEAA
00029730  3183          1094  USBAQ  MSAVEVALUE PH134,9,2,1,MH    INSPECTIONS BY EVENT
00029740  3184          1095  USBAB  LINK       PH25,LIFO         A/C IN MAINTENANCE
00029750  3185          1096  USBAV  ASSIGN     9,12,PB           ACTIVITY = CANNIBALIZATION ACTION
00029760  3186          1097         TRANSFER   ,USBAW
00029770  3187          1098  USBAK  ASSIGN     16,4,PB           NEW AWM REASON = OFF-SHIFT
00029780  3188          1099         TRANSFER   ,USBAL
00029790  3189          1100  USBAM  ASSIGN     16,1,PB           NEW AWM REASON = BACKLOG
00029800  3190          1101         TRANSFER   ,USBAL
00029810  3191          1102  USBAH  TRANSFER   SBR,CHMC4,16PH    UPDATE A/C MISSION CAPABILITY
00029820  3192          1103         LINK       PH26,24PH         A/C IN MAINTENANCE
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GPSS/H  V4/370 RELEASE 1.0 (aY142)      15 DEC 82  10:40:34    FILE: A7ENCOPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0002983C  3193          1134   USBAJ TRANSFER   SBR,UPDAA,16PH    UPDATE SCIR STATISTICS
0002984C  3194          1135         LINK       PH25,24P1        A/C IN MAINTENANCE
0002985C  3195          1136   USBAP TRANSFER   SBR,CHDSA,33PH    UPDATE DISCREPANCY STATUS
0002986C  3196          1137         TRANSFER   ,USBAI
0002987C  3197                 *
0002988C  3198                 *
0002989C  3199                 *
0002990C  3200                 * PAGE USC - CHECK DISCREPANCY
0002991C  3201          1138   USCAA ASSIGN     96,2,PH          ADMINISTRATIVE DELAY
0002992C  3202          1139         MARK       13PF             TIME ADMINISTRATIVE DELAY BEGAN
0002993C  3203          1110         ASSIGN     32,1,PB          DELAY FLAG
0002994C  3204          1111         SAVEVALUE  SPLMC+,1,XF      SPLIT BLOCK MATCH COUNT
0002995C  3205          1112         ASSIGN     1),XF$SPLMC,PF   SPLIT BLOCK MATCH COUNT
0002996C  3206          1113         SPLIT      1,USCAF          TIME DELAY XACT
0002997C  3207          1114         LINK       PH3,14PH         REPAIRS IN WORK
0002998C  3208          1115   USCAF ADVANCE    PH46             ADMINISTRATIVE DELAY
0002999C  3209          1115         UNLINK     PH8,USCAG,1,1)PF REPAIR IN WORK
0003000C  3210          1117         TERMINATE
0003001C  3211          1118   USCAG ASSIGN     47,MP13PF,PH     ADMINISTRATIVE DELAY
0003002C  3212          1119         ASSIGN     32,),PB          RESET
0003003C  3213          1120         TEST NE    PB26,1,USCAB     IS THIS NOT A REMOVE AND REPLACE
0003004C  3214                 *                                ACTION
0003005C  3215          1121         TEST L     RN2,V$NRRD,USCAE IS NO REPAIR REQUIRED
0003006C  3216          1122         ASSIGN     17,1,PB          ACTION TAKEN = CHECK - NRR
0003007C  3217          1123         MARK       12PF             TIME TASK STARTED
0003008C  3218          1124         TEST E     PH49,),USCAH     HAS THIS TASK NOT BEEN PREVIOUSLY
0003009C  3219                 *                                STARTED
0003010C  3220          1125         ASSIGN     49,PH13,PH       EMT THIS TASK
0003011C  3221          1126   USCAH SAVEVALUE  SPLMC+,1,XF      SPLIT BLOCK MATCH COUNT
0003012C  3222          1127         ASSIGN     1),XF$SPLMC,PF   SPLIT BLOCK MATCH COUNT
0003013C  3223          1128         SPLIT      1,USCAC          TIME DELAY XACT
0003014C  3224          1129         LINK       PH8,14PH         REPAIRS IN WORK
0003015C  3225          1130   USCAB ASSIGN     17,13,PB         ACTION TAKEN = REMOVE
0003016C  3226          1131         ASSIGN     49,),PH          RESET
0003017C  3227          1132         TRANSFER   ,USEAA
0003018C  3228          1133   USCAC ADVANCE    PH49             PERFORM THIS TASK
0003019C  3229          1134         UNLINK     PH8,USCAJ,1,1)PF REPAIR IN WORK
0003020C  3230          1135         TERMINATE
0003021C  3231          1136   USCAD ASSIGN     44+,MP12PF,PH    CUMULATIVE EMT
0003022C  3232          1137         MSAVEVALUE PH19+,PH20,57,1,MH      NRR ACTIONS (ORG) THIS ARA
0003023C  3233          1138         MSAVEVALUE PH3+,PH4,37,1,MX  NRR ACTIONS (ORG) THIS SUBSYSTEM
0003024C  3234          1139         MSAVEVALUE SYSUM+,P35,37,1,MX      TOTAL NRR ACTIONS - ORG.
0003025C  3235          1140         ASSIGN     21,1,PB          REPAIR IS SUCCESSFUL
0003026C  3236          1141         TRANSFER   ,USZAA
0003027C  3237          1142   USCAF ASSIGN     17,3,PB          ACTION TAKEN = REPAIR IN PLACE
0003028C  3238          1143         ASSIGN     49,),PH          RESET
0003029C  3239          1144         TRANSFER   ,USDAA
0003030C  3240                 *
0003031C  3241                 *
0003032C  3242                 *
0003033C  3243                 * PAGE USD - REPAIR IN PLACE
0003034C  3244          1145   USDAA MARK       12PF             TASK START TIME
0003035C  3245          1146         TEST E     PH49,),USDAB     HAS THIS TASK NOT BEEN PREVIOUSLY
0003036C  3246                 *                                STARTED
0003037C  3247          1147         ASSIGN     47,PH13,PH       TOTAL TIME TO REPAIR
0003038C  3248          1148   USDAL SAVEVALUE  SPLMC+,1,XF      SPLIT BLOCK MATCH COUNT
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GPSS/H  VM/370 RELEASE 1.0 (AV102)      10 DEC 82  10:40:34    FILE: A7ENCOPS

 LINE#  STMT#  IF CO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G  COMMENTS

00030390  3249          1149          ASSIGN     10,XF$SPLMC,PF     SPLIT BLOCK MATCH COUNT
00030400  3250          1150          SPLIT      1,USDAC            TIME DELAY XACT
00030410  3251          1151          LINK       PH8,14PH           REPAIRS IN WORK
00030420  3252          1152  USDAC   ADVANCE    PH49               TIME TO REPAIR
00030430  3253          1153          UNLINK     PH8,USDAD,1,1UPF   REPAIR XACT
00030440  3254          1154          TERMINATE
00030450  3255          1155  USDAD   ASSIGN     21,1,PB            SUCCESSFUL COMPLETION
00030460  3256          1156          ASSIGN     48+,MP12PF,PH      CUMULATIVE EMT
00030470  3257          1157          TRANSFER   ,USZAA
00030480  3258                      *
00030490  3259                      *
00030500  3260                      *
00030510  3261                      * PAGE USE - REMOVE AND REPLACE - REMOVAL PHASE
00030520  3262          1158  USEAA   TEST NE    PR,42,USEAG        IS THIS NOT IN-CYCLE MAINTENANCE
00030530  3263          1159  USEAH   MARK       12PF               TASK START TIME
00030540  3264          1160          TEST E     PH49,0,USEAB       HAS THIS TASK NOT BEEN PREVIOUSLY
00030550  3265                      *                               STARTED
00030560  3266          1161          ASSIGN     49,V$TRMOV,PH      TOTAL TIME TO REMOVE
00030570  3267          1162  USEAB   SAVEVALUE  SPLMC+,1,XF        SPLIT BLOCK MATCH COUNT
00030580  3268          1163          ASSIGN     10,XF$SPLMC,PF     SPLIT BLOCK MATCH COUNT
00030590  3269          1164          SPLIT      1,USEAC            TIME DELAY XACT
00030600  3270          1165          LINK       PH8,14PH           REPAIRS IN WORK
00030610  3271          1166  USEAC   ADVANCE    PH49               REMOVE MRA
00030620  3272          1167          UNLINK     PH8,USEAD,1,1UPF   REPAIR IN WORK
00030630  3273          1168          TERMINATE
00030640  3274          1169  USEAD   ASSIGN     49,0,PH            RESET
00030650  3275          1170          ASSIGN     48+,MP12PF,PH      CUMULATIVE EMT
00030660  3276          1171          TEST NE    PB17,17,USEAE      IS THIS NOT A CANNIBALIZATION ACTION
00030670  3277          1172          ASSIGN     17,20,PB           TASK = SUPPLY ACTION
00030680  3278          1173          ASSIGN     46,0,PH            RESET
00030690  3279          1174          TRANSFER   ,SUPA
00030700  3280          1175  USEAE   ASSIGN     21,3,PB            COMPLETION CODE = AWP
00030710  3281          1176          TRANSFER   SBR,USKAA,11PH     RELEASE MANPOWER
00030720  3282          1177          SAVEVALUE  CMRA,PF6,XF        CANNIBALIZED MRA
00030730  3283          1178          SAVEVALUE  TALV,PB4,XB        TAIL NUMBER OF VICTIM A/C
00030740  3284          1179          UNLINK     RAMC,USEAF,1,BV$AMCAN,,DBG21  REPAIR AWAITING
00030750  3285                      *                               CANNIBALIZATION
00030760  3286          1180          TEST E     MH*PH19(PH20),44),0,SUPA IS NO SPARE AVAILABLE
00030770  3287          1181          ASSIGN     11,3,PB            NEW REPAIR STATUS = AWP
00030780  3288          1182          TRANSFER   ,USZAA
00030790  3289          1183  USEAF   ASSIGN     17,15,PB           TASK = INSTALL CANNIBALIZED MRA
00030800  3290          1184          ASSIGN     49,0,PH            RESET
00030810  3291          1185          ASSIGN     34,0,PB            RESET
00030820  3292          1186          SCAN       PH7,4PH,PB4,61PB,1PB    GET NR. OF REPAIRS AWAITING
00030830  3293                      *                               CANNIBALIZED MRAS
00030840  3294          1187          TEST GE    PB1,1,DBG28        SHOULD BE AT LEAST ONE
00030850  3295          1188          ASSIGN     1-,1,PB            DECREMENT COUNT
00030860  3296          1189          ALTER      PH7,1,61PB,PB1,4PH,PB4  DECREMENT COUNT
00030870  3297          1190          TRANSFER   ,USBAA
00030880  3298          1191  USEAG   TEST G     MH*PH19(PH20),44),0,USEAJ      IS SPARE AVAILABLE
00030890  3299          1192          MSAVEVALUE PH19+,PH20,44,1,MH      DECREMENT SPARES RFI
00030900  3300          1193          TRANSFER   ,USEAH
00030910  3301          1194  USEAJ   MSAVEVALUE PH19+,PH20,69,1,MH      TIMES NO SPARE RFI THIS MRA
00030920  3302          1195          MSAVEVALUE PH3+,PH4,44,1,MX  TIMES NO SPARE RFI THIS SUBSYSTEM
00030930  3303          1196          MSAVEVALUE SYSUM+,PH5,44,1,MX      TOTAL TIMES NO SPARE AVAILABLE
00030940  3304          1197          ASSIGN     21,3,PH            COMPLETION CODE = AWP
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GPSS/H  V4/37x RELEASE 1.0 (AY162)       10 DEC 82  10:40:04    FILE: A7ENCOPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00030950  3305          1198          ASSIGN     11,3,PB          NEW REPAIR STATUS = ANP
00030960  3306          1199          TRANSFER   ,USZAA
00030970  3307                *
00030980  3308                *
00030990  3309                *
00031000  3310                * PAGE USF - REMOVE AND REPLACE - INSTALLATION PHASE
00031010  3311          1200   USFAA  MARK       12PF             TASK START TIME
00031020  3312          1201          TEST E     PH99,0,USFAB     HAS THIS TASK NOT BEEN PREVIOUSLY
00031030  3313                *                                   STARTED
00031040  3314          1202          ASSIGN     99,V$TNSTL,PH    INSTALL WRA
00031050  3315          1203   USFAB  SAVEVALUE  SPLMC+,1,XF      SPLIT BLOCK MATCH COUNT
00031060  3316          1204          ASSIGN     10,XF$SPLMC,PF   SPLIT BLOCK MATCH COUNT
00031070  3317          1205          SPLIT      1,USFAC          TIME DELAY XACT
00031080  3318          1206          LINK       PHH,14PH         REPAIRS IN WORK
00031090  3319          1207   USFAC  ADVANCE    PH99             INSTALL WRA
00031100  3320          1208          UNLINK     PH8,USFAD,1,10PF  REPAIR IN WORK
00031110  3321          1209          TERMINATE
00031120  3322          1210   USFAD  ASSIGN     98+,MP12PF,PH    CUMULATIVE EMT
00031130  3323          1211          TEST NE    PB17,15,USFAF    WAS THIS NOT A CANNIBALIZED WRA
00031140  3324          1212          SAVEVALUE  SBSYH,PH19,XH    SUBSYSTEM MM INDEX
00031150  3325          1213          SAVEVALUE  WRANR,PH20,XH    WRA NUMBER
00031160  3326          1214          SAVEVALUE  ARG,V$ARGW,XF    ARGUMENT OF FN$EXP
00031170  3327          1215          TEST L     FN$RAN64,FN$EXP,USFAE   WAS THIS A GOOD SPARE
00031180  3328          1215   USFAF  TEST E     PF6,PF9,USFAG    WAS THIS THE ACTUALLY FAILED WRA
00031190  3329          1217          ASSIGN     21,1,PB          SUCCESSFUL COMPLETION
00031200  3330          1218   USFAH  TEST E     PB17,18,USZ1A    WAS THIS A REPLACEMENT AFTER
00031210  3331                *                                   CANNIBALIZATION
00031220  3332          1219          MSAVEVALUE PH19+,PH20,69,1,MH      REPLACEMENTS AFTER
00031230  3333                *                                   CANNIBALIZATION
00031240  3334          1220          MSAVEVALUE PH3+,PH4,98,1,MX  REPLACEMENTS AFTER CANNIBALIZATION
00031250  3335          1221          MSAVEVALUE SYSUM+,PB5,99,1,MX      REPLACEMENTS AFTER
00031260  3336                *                                   CANNIBALIZATION
00031270  3337          1222          TRANSFER   ,USZAA
00031280  3338          1223   USFAE  MSAVEVALUE PH19+,PH20,65,1,MH      BAD PARTS FROM SUPPLY THIS WRA
00031290  3339          1224          MSAVEVALUE PH3+,PH4,45,1,MX  BAD PARTS FROM SUPPLY THIS SUBSYSTEM
00031300  3340          1225          MSAVEVALUE SYSUM+,PB5,45,1,MX      TOTAL BAD PARTS FROM SUPPLY
00031310  3341          1226          ASSIGN     21,2,PH          UNSUCCESSFUL COMPLETION - BAD PART
00031320  3342          1227          TRANSFER   ,USFAH
00031330  3343          1228   USFAG  ASSIGN     21,4,PB          COMPLETION CODE = REPLACED NRK WRA
00031340  3344          1229          TRANSFER   ,USZAA
00031350  3345                *
00031360  3346                *
00031370  3347                *
00031380  3348                * PAGE USZ - COMPLETE UNSCHEDULED MAINTENANCE TASK
00031390  3349          1230   USZAA  ASSIGN     1,P3,PH          CURRENT PRIORITY
00031400  3350          1231          PRIORITY   41               RAISE PRIORITY
00031410  3351          1232   USZBC  GATE LR     UPDA1            IS PAGE UPD SUBROUTINE IDLE
00031420  3352          1233          GATE LR    USZA1,USZBC      IS THIS SUBROUTINE IDLE
00031430  3353          1234          LOGIC S    USZA1            CLOSE THE GATE
00031440  3354          1235          TEST NE    PH23,0,USZAX     IS DISCREPANCY SCIP-RELATED
00031450  3355          1236          UNLINK     PH17,USZAB,1,4PB,,0DDD9       A/C THIS REPAIR
00031460  3356          1237          GATE LS    USZA2            PROCESS UNLINKED XACT
00031470  3357          1238          LOGIC R    USZA2            CLOSE THE GATE
00031480  3358          1239   USZAX  TEST E     PH21,1,USZ4C     WAS REPAIR SUCCESSFUL
00031490  3359          1240          TRANSFER   .5RE,DECDA,33PH  DECREMENT DISCREPANCY COUNT THIS A/C
00031500  3360          1241          UNLINK     PH6,USZAU,1,3PF,,0DDD9   DISCREPANCY THIS REPAIR
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GPSS/H  VM/370 RELEASE 1.0 (AY102)      10 DEC 82  10:40:34    FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00031510   3361          1242         PRIORITY    PH1             RESTORE PRIORITY
00031520   3362          1243         LINK        USZA1,FIFO      HOLDING CHAIN
00031530   3363          1244  USZBC  GATE LR     USZA1           WAIT FOR THIS SUBROUTINE TO BECOME
00031540   3364                       *                           IDLE
00031550   3365          1245         TRANSFER    ,USZBD
00031560   3366          1246  USZA8  TRANSFER    SBR,UPDAA,16PH  UPDATE SCIR STATISTICS
00031570   3367          1247         LOGIC S     USZA2           LET REPAIR XACT MOVE
00031580   3368          1248         LINK        PH26,24PH       A/C IN MAINTENANCE
00031590   3369          1249  USZAD  ASSIGN      21,1,PB         COMPLETION CODE
00031600   3370          1250         TEST NE     PH,42,USZAP     IS THIS NOT IN-CYCLE MAINTENANCE
00031610   3371          1251         TRANSFER    SBR,UPSAA,16PH  POST-MAINTENANCE A/C STATUS UPDATE
00031620   3372          1252         TRANSFER    SBR,RANA,11PH   UPDATE REPAIR ANALYSIS THIS A/C
00031630   3373          1253         UNLINK      USZA1,USZAE,1   REPAIR XACT ON HOLDING CHAIN
00031640   3374          1254         SAVEVALUE   TALUD,PB9,XB    TAIL NUMBER THIS A/C
00031650   3375          1255         SAVEVALUE   MUCUD,PF9,XF    MUC OF FAILED ORA THIS REPAIR
00031660   3376          1256         UNLINK      PH27,USZAF,ALL,BV$DSCRU      UNRESOLVED DISCREPANCIES
00031670   3377                       *
00031680   3378          1257  USZAF  TERMINATE
00031690   3379          1258  USZAC  UNLINK      PH6,USZAH,1,3PF,,DBG13  DISCREPANCY THIS REPAIR
00031700   3380          1259         PRIORITY    PH1             RESTORE PRIORITY
00031710   3381          1260         LINK        USZA1,FIFO      TEMPORARY HOLDING CHAIN
00031720   3382          1261  USZAH  SCAN        PH15,3PF,PF3,21PB,21PB  GET REPAIR COMPLETION CODE
00031730   3383          1262         TEST NE     PH,42,USZAU     IS THIS NOT IN-CYCLE MAINTENANCE
00031740   3384          1263         TEST NE     PB21,3,USZAG    IS REPAIR NOT AWP
00031750   3385          1264  USZAT  PRIORITY    90              NORMAL PRIORITY
00031760   3386          1265         SPLIT       1,USZAJ         CREATE NEW DISCREPANCY
00031770   3387          1266         REMOVE      PH5             CURRENT DISCREPANCIES
00031780   3388          1267         LINK        PH27,FIFO       UNRESOLVED DISCREPANCIES
00031790   3389          1268  USZAE  TRANSFER    SBR,USRAA,11PH  RELEASE MANPOWER
00031800   3390          1269         LOGIC R     USZA1           OPEN THE GATE
00031810   3391          1270         TERMINATE
00031820   3392          1271  USZAJ  SAVEVALUE   JCN+,1,XF       NEXT AVAILABLE JCN
00031830   3393          1272         SAVEVALUE   NUJCN,XF$JCN,XF  NEW JCN
00031840   3394          1273         ASSIGN      3,XF$NUJCN,PF   NEW JCN
00031850   3395          1274         MARK
00031860   3396          1275         JOIN        PH5             CURRENT DISCREPANCIES
00031870   3397          1276         TEST E      PB21,2,USZAK    WAS THIS A BAD PART FROM SUPPLY
00031880   3398          1277         ASSIGN      20,12,PB        WHEN DISCOVERED CODE
00031890   3399          1278         UNLINK      USZA1,USZAL,1   XACT ON HOLDING CHAIN
00031900   3400          1279         LINK        PH6,14PH        CURRENT DISCREPANCIES
00031910   3401          1280  USZAK  TEST E      PB21,4,DBG14    WAS THIS A NKR INSTALLATION
00031920   3402          1281         ASSIGN      20,P319,PB      ORIGINAL WHEN DISCOVERED CODE
00031930   3403          1282         TRANSFER    SBR,MSDGA,11PH  MISDIAGNOSIS ROUTINE
00031940   3404          1283         ASSIGN      14,0,PB         RESET
00031950   3405          1284         PRIORITY    90              NORMAL PRIORITY
00031960   3406          1285         SPLIT       1,USZAU         TO CREATE NEW REPAIR XACT
00031970   3407          1286         LINK        PH6,14PH        CURRENT DISCREPANCIES
00031980   3408          1287  USZAL  SPLIT       1,USZAM         NEW REPAIR XACT
00031990   3409          1288         LINK        USZA1,FIFO      HOLDING CHAIN
00032000   3410          1289  USZAQ  ASSIGN      11,2,PB         NEW REPAIR STATUS = AWM
00032010   3411          1290         ASSIGN      15,3,PB         NEW AWM REASON = BACKLOG
00032020   3412          1291         ASSIGN      31,PH30,PH      NEW EDC = CURRENT LOC
00032030   3413          1292         TRANSFER    SBR,CMDSA,33PH  UPDATE DISCREPANCY STATUS
00032040   3414          1293         TRANSFER    SBR,RANA,11PH   CREATE NEW REPAIR XACT
00032050   3415          1294         UNLINK      USZA1,USZAN,1   XACT ON HOLDING CHAIN
00032060   3416          1295         TERMINATE
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GPSS/H  VM/370 RELEASE 1.0 (AY162)        10 DEC 82  10:40:34     FILE: A7ENCUPS

 LINE#  STMT#  IF  DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00032070  3417            1295   USZAM ASSIGN     3,XF$NUJCN,PF     NEW JCN
00032080  3418            1297         JOIN       PH15              REPAIRS THIS SQUADRON
00032090  3419            1298         ASSIGN     11,2,PB           NEW REPAIR STATUS = AWM
00032100  3420            1299         ASSIGN     16,3,PH           NEW AWM REASON = BACKLOG
00032110  3421            1300         ASSIGN     31,PH30,PH        NEW EOC = CURRENT EOC
00032120  3422            1301         TRANSFER   SBR,CHDSA,33PH    UPDATE DISCREPANCY STATUS
00032130  3423            1302         ASSIGN     20,12,PB          WHEN DISC. = BAD PART FROM SUPPLY
00032140  3424            1303         ASSIGN     14,PH13,PH        TIME TO REPAIR
00032150  3425            1304         ALTER      PH5,1,14PH,PH14,3PF,PF3 UPDATE DISCREPANCY TTR
00032160  3426            1305         ASSIGN     11,0,PF           CLEAR THIS PARAMETER
00032170  3427            1306         ASSIGN     48-49,0,PH        RESET
00032180  3428            1307         ASSIGN     17,13,PB          TASK = REMOVE
00032190  3429            1308         UNLINK     USZA1,USZAN,1     XACT ON HOLDING CHAIN
00032200  3430            1309         PRIORITY   40                NORMAL PRIORITY
00032210  3431            1310         LINK       PH9,14PH          REPAIRS AWM
00032220  3432            1311   USZAN TRANSFER   SBR,USRAA,11PH     RELEASE MANPOWER
00032230  3433            1312         LOGIC R    USZA1             OPEN THE GATE
00032240  3434            1313         TERMINATE
00032250  3435            1314   USZAG SCAN       PH15,3PF,PF3,11PB,11PB  GET NEW REPAIR STATUS
00032260  3436            1315         SPLIT      1,USZAH           CONTROL XACT TO UPDATE A/C STATUS
00032270  3437            1316         LINK       PH6,14PH          CURRENT DISCREPANCIES
00032280  3438            1317   USZAH ASSIGN     31,PH30,PH        NEW EOC = CURRENT EOC
00032290  3439            1318         TRANSFER   SBR,CHDSA,33PH    UPDATE DISCREPANCY STATUS
00032300  3440            1319         TEST NE    PB3,6,USZAZ       NOT A CANNIBALIZATION ACTION
00032310  3441            1320         TRANSFER   SBR,RANA,11PH     UPDATE REPAIR ANALYSIS
00032320  3442            1321   USZAZ UNLINK     USZA1,USZAI,1     REPAIR XACT ON HOLDING CHAIN
00032330  3443            1322         TERMINATE
00032340  3444            1323   USZA1 ASSIGN     10,PB11,PB        REPAIR STATUS
00032350  3445            1324         TEST NE    PB11,4,USZBB      NOT AWAITING CANNIBALIZATION
00032360  3446            1325         TEST NE    PB17,17,USZBA     NOT A CANNIBALIZATION REMOVAL
00032370  3447            1326         TRANSFER   SBR,USRAA,11PH     RELEASE MANPOWER
00032380  3448            1327   USZBA LOGIC R    USZA1             OPEN THE GATE
00032390  3449            1328         LINK       PH15,14PH         REPAIRS AWP
00032400  3450            1329   USZBB LOGIC R    USZA1             OPEN THE GATE
00032410  3451            1330         LINK       RAWC,FIFO         REPAIRS AWAITING CANNIBALIZATION
00032420  3452            1331   USZAP UNLINK     PH17,USZAR,1,4PB,,DBG14 A/C THIS REPAIR
00032430  3453            1332         UNLINK     USZA1,USZAB,1     XACT ON HOLDING CHAIN
00032440  3454            1333         TERMINATE
00032450  3455            1334   USZAR ASSIGN     31,1,PB           NEW STATUS = OPC
00032460  3456            1335         TEST E     PB8,6,USZAS       WAS A/C NMC
00032470  3457            1336         TABULATE   MH$TAB(3,PB5)     NMC TIME DURATION
00032480  3458            1337   USZAS TRANSFER   SBR,CHMCA,16PH     UPDATE A/C MISSION CAPABILITY
00032490  3459            1338         JOIN       MH$GRP(9,PB5)     OPC A/C
00032500  3460            1339         ASSIGN     23-25,0,PB        CLEAR THESE PB'S
00032510  3461            1340   USZAY PRIORITY   90                NORMAL PRIORITY
00032520  3462            1341         ASSIGN     14,0,PB           RESET
00032530  3463            1342         LEAVE      PH21              EVENT STORAGE
00032540  3464            1343         REMOVE     PH34              A/C IN MAINTENANCE
00032550  3465            1344         MARK       15PF              TIME MAINTENANCE COMPLETED
00032560  3466            1345         ASSIGN     47,0,PB           RESET GROUND CREW PREFLIGHT NOT
00032570  3467                    *                                 NEEDED FLAG
00032580  3468            1345         ASSIGN     34,2,PB           LOCATION = FLIGHT DECK
00032590  3469            1347         ASSIGN     9,6,PB            LAST ACTIVITY = TURNAROUND INSP>
00032600  3470            1348         TRANSFER   ,ICMBC
00032610  3471            1349   USZAG UNLINK     PH17,USZAU,1,4PB,,DBG16 A/C THIS REPAIR
00032620  3472            1350         TEST E     PB21,3,USZAT      WAS NO SPARE AVAILABLE
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GPSS/H  V4/370 RELEASE 1.0 (AY142)       13 DEC 82  10:40:09    FILE: A7ENCOPS

LINE#  STMT#  IF  DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00032630  3473          1351          UNLINK     USZA1,USZAV,1,3PF REPAIR XACT ON HOLDING CHAIN
00032640  3474          1352          ASSIGN     21,0,PB          RESET
00032650  3475          1353          LINK       PH6,14PH         CURRENT DISCREPANCIES
00032660  3476          1354  USZAU   ASSIGN     31,PB13,PB       STATUS PRIOR TO IN-CYCLE MAINTENANCE
00032670  3477          1355          TRANSFER   SBR,CHMCA,16PH   UPDATE A/C MISSION CAPABILITY
00032680  3478          1356          TRANSFER   ,USZAY
00032690  3479          1357  USZAV   ASSIGN     16,2,PB          DISCREPANCY STATUS = AWM
00032700  3480          1358          ASSIGN     16,3,PB          NEW AWM REASON = BACKLOG
00032710  3481          1359          ASSIGN     31,PH30,PH       NEW EDC = CURRENT EDC
00032720  3482          1360          TRANSFER   SBR,CHUSA,33PH   UPDATE DISCREPANCY STATUS
00032730  3483          1361          ASSIGN     17,13,PB         TASK = REMOVE
00032740  3484          1362          ASSIGN     21,0,PB          RESET
00032750  3485          1363          TRANSFER   SBR,USRAA,11PH   RELEASE MANPOWER
00032760  3486          1364          LOGIC R    USZA1            OPEN THE GATE
00032770  3487          1365          LINK       PH9,14PH         REPAIRS AWM
00032780  3488                  *
00032790  3489                  *
00032800  3490                  *
00032810  3491                  ***** PAGE SUP - SUPPLY ACTION ROUTINE *****
00032820  3492          1365   SUPA   TEST E     PH46,0,SUPB      HAS THIS TASK NOT PREVIOUSLY
00032830  3493                  *                               STARTED
00032840  3494          1367          TEST NE    PR,42,SUPJ       IS THIS NOT IN-CYCLE MAINTENANCE
00032850  3495          1368          ASSIGN     46,V$SUPLY,PH    SUPPLY RESPONSE DELAY
00032860  3496          1369          TEST L     PH46,3,SUPH      IS COMPUTED DELAY LESS THAN 18
00032870  3497                  *                               MINUTES
00032880  3498          1370          ASSIGN     46,3,PH          MAKE SUPPLY DELAY 18 MINUTES
00032890  3499          1371   SUPH   TEST NE    PB17,17,SUPN     NOT A CANNIBALIZATION ACTION
00032900  3500          1372          MSAVEVALUE PH19*,PH20,63,1,MH      SUPPLY ACTIONS THIS WRA
00032910  3501          1373          MSAVEVALUE PH3*,PH4,43,1,MX  SUPPLY ACTIONS THIS SUBSYSTEM
00032920  3502          1374          MSAVEVALUE SYSUM*,PH5,43,1,MX      TOTAL SUPPLY ACTIONS
00032930  3503          1375          TEST GE    RN6,MH*PH19(PH20,30),SUPK     IS THIS NOT AN ORG.
00032940  3504                  *                                             LEVEL THROWAWAY ITEM
00032950  3505          1376          SPLIT      1,1MAAA          CREATE IMA REPAIR XACT
00032960  3506          1377   SUPB   MARK       13PF             TIME SUPPLY DELAY BEGAN
00032970  3507          1378          ASSIGN     32,1,PB          DELAY FLAG
00032980  3508          1379          SAVEVALUE  SPLMC*,1,XF      SPLIT BLOCK MATCH COUNT
00032990  3509          1380          ASSIGN     10,XF$SPLMC,PF   SPLIT BLOCK MATCH COUNT
00033000  3510          1381          SPLIT      1,SUPC           TIME DELAY XACT
00033010  3511          1382          LINK       PH8,14PH         REPAIRS IN WORK
00033020  3512          1383   SUPC   ADVANCE    PH46             SUPPLY RESPONSE DELAY
00033030  3513          1384          UNLINK     PH8,SUPD,1,1PF   REPAIR IN WORK
00033040  3514          1385          TERMINATE
00033050  3515          1386   SUPD   ASSIGN     47*,MP13PF,PH    ADD TO ADMINISTRATIVE DELAY
00033060  3516          1387          ASSIGN     32,0,PB          RESET
00033070  3517          1388          TEST NE    PR,42,SUPG       IS THIS NOT IN-CYCLE MAINTENANCE
00033080  3518          1389          TEST G     MH*PH19(PH20,44),0,SUPF IS SPARE AVAILABLE FROM SUPPLY
00033090  3519          1390   SUPG   MSAVEVALUE PH19-,PH20,44,1,MH      DECREMENT RFI INVENTORY
00033100  3520          1391          TEST L     MH*PH19(PH20,44),MH*PH19(PH20,45),SUPG    IS THERE A
00033110  3521                  *                                                          NEW MINIMUM
00033120  3522          1392          MSAVEVALUE PH19,PH20,45,MH*PH19(PH20,44),MH    NEW MINIMUM
00033130  3523          1393   SUPG   TEST NE    PB17,17,NFIAC    NOT A CANNIBALIZATION ACTION
00033140  3524          1394          ASSIGN     17,14,PB         TASK = INTALL SPARE
00033150  3525          1395          ASSIGN     49,0,PH          RESET
00033160  3526          1396          TRANSFER   ,USFAA
00033170  3527          1397   SUPF   MSAVEVALUE PH19*,PH20,64,1,MH      TIMES NO SPARE RFI THIS WRA
00033180  3528          1398          MSAVEVALUE PH3*,PH4,44,1,MX  TIMES NO SPARE RFI THIS SUBSYSTEM
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       15 DEC 82  10:40:36    FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00033190  3529           1399         MSAVEVALUE SYSUM*,PB5,44,1,MX      TOTAL TIMES NO SPARE RFI
00033200  3530           1400         TEST GE    V$CMCOD,2,SUPE     IS DISCREPANCY SCIR-RELATED
00033210  3531           1401         TEST E     MH$COMPL(6,PB5),0,SUPI  IS CANNIBALIZATION NOT
00033220  3532                      *                                  AUTHORIZED
00033230  3533           1402  SUPE   ASSIGN     11,3,PB            REPAIR STATUS = AMP
00033240  3534           1403         ASSIGN     21,3,PB            COMPLETION CODE = AMP
00033250  3535           1404         TRANSFER   ,USZAA
00033260  3536           1405  SUPI   TEST E     MH$COMPL(8,PB5),1,SUPM  USING CANNIBALIZATION
00033270  3537                      *                                  SUSCEPTIBILITY OPTION
00033280  3538           1406         TEST E     MH*PH19(PH20,40),0,SUPE IS THIS ARA SUSCEPTIBLE TO
00033290  3539                      *                                  CANNIBALIZATION
00033300  3540           1407  SUPM   ASSIGN     17,16,PB           TASK = ATTEMPT TO CANNIBALIZE
00033310  3541           1408         TRANSFER   ,CANAA
00033320  3542           1409  SUPJ   ASSIGN     46,MH$COMPL(19,PB5),PH  SUPPLY RESPONSE DELAY
00033330  3543           1410         TRANSFER   ,SUPH
00033340  3544           1411  SUPN   ADVANCE    PH46               ADMINISTRATIVE DELAY
00033350  3545           1412         TEST E     MH*PH19(PH20,44),0,SUPQ IS SPARE NO LONGER AVAILABLE
00033360  3546           1413         ASSIGN     21,3,PB            COMPLETION CODE = AMP
00033370  3547           1414         ASSIGN     11,3,PB            REPAIR STATUS = AMP
00033380  3548           1415         TRANSFER   ,USZAA
00033390  3549           1416  SUPK   SPLIT      1,SUPO             CREATE BCM XACT
00033400  3550           1417         TRANSFER   ,SUPB
00033410  3551           1418  SUPO   ASSIGN     3,12,PB            XACT IDENT = ORG. LEVEL THROWAWAY
00033420  3552           1419         ASSIGN     28,9,PB            BCM CODE
00033430  3553           1420         TRANSFER   ,BCMA
00033440  3554                      *
00033450  3555                      *
00033460  3556                      *
00033470  3557                      ***** PAGE IMA - INTERMEDIATE MAINTENANCE ROUTINE *****
00033480  3558                      *
00033490  3559                      *                  IMA REPAIR PARAMETERS
00033500  3560                      * PB3 = XACT IDENT
00033510  3561                      *      11 = IMA REPAIR
00033520  3562                      *      12 = ORG. LEVEL THROWAWAY
00033530  3563                      * PB4-PB12 = SAME AS FOR ORGANIZATIONAL REPAIR XACTS
00033540  3564                      * PB13 = MANPOWER - INTERMEDIATE
00033550  3565                      * PB14-PB28 SAME AS FOR ORGANIZATIONAL REPAIR XACTS
00033560  3566                      *
00033570  3567                      * PH3-PH50 SAME AS FOR ORGANIZATIONAL REPAIR XACTS
00033580  3568                      *
00033590  3569                      * PF3-PF12 = SAME AS FOR ORGANIZATIONAL REPAIR XACTS
00033600  3570                      * PF13 = IMA REPAIR OR CHECKOUT TIME
00033610  3571                      ************************************************************************
00033620  3572                      * PAGE IMAA - IMA ANALYSIS AND REPAIR
00033630  3573           1421  IMAAA  ASSIGN     3,11,PB            XACT IDENT. 11 = IMA REPAIR
00033640  3574           1422         TEST NE    PH5?,0,D&G34       CHECK FOR VALID WORK CENTER I.D.
00033650  3575           1423         TEST NE    X$&ISHFT,0,IMAAD   IS THERE A CURRENT SHIFT
00033660  3576           1424  IMAAP  MARK       11PF               TIME ENTERED IMA
00033670  3577           1425         ASSIGN     13,MH*PH19(PH20,20),P3  MANPOWER - INTERMEDIATE
00033680  3578           1426         TEST E     PB23,0,BCMA        IS REPAIR NOT BCM
00033690  3579           1427         TEST NE    MX*PH3(PH4,11),0,IMAAM  IS THIS SUBSYSTEM SUBJECT TO
00033700  3580                      *                                  MISDIAGNOSIS
00033710  3581           1428         TEST E     PB22,0,IMAAB       IS REPAIR REQUIRED (ITEM NOT NRR)
00033720  3582           1429  IMAAN  ASSIGN     13,V$IREPT,PF      IMA REPAIR TIME
00033730  3583           1430         TEST L     PF13,2,IMAAI       IS COMPUTED TIME LESS THAN
00033740  3584                      *                                  12 MINUTES
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GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:39    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00033750  3585          1431         ASSIGN     13,2,PF           MAKE TIME DELAY = 12 MINUTES
00033760  3586          1432   IMAAI MARK       12PF              TIME TASK BEGAN
00033770  3587          1433         TEST LE    PF13,V$IMAI,IMAAK DOES REMAINING TIME TO REPAIR NOT
00033780  3588                     *                              EXCEED REMAINING SHIFT DURATION
00033790  3589          1434         SAVEVALUE  SPLMC*,1,XF       SPLIT BLOCK MATCH COUNT
00033800  3590          1435         ASSIGN     10,XF$SPLMC,PF    SPLIT BLOCK MATCH COUNT
00033810  3591          1436         SPLIT      1,IMAAC,,13PF     TIME DELAY XACT
00033820  3592          1437   IMAAK LINK       IREPR,FIFO        ITEMS IN IMA REPAIR
00033830  3593          1438   IMAAP ASSIGN     13,V$ICHKT,PF     IMA CHECKOUT TIME
00033840  3594          1439         TEST L     PF13,2,IMAAJ      IS COMPUTED TIME LESS THAN
00033850  3595                     *                              12 MINUTES
00033860  3596          1440         ASSIGN     13,2,PF           MAKE TIME DELAY = 12 MINUTES
00033870  3597          1441   IMAAJ MARK       12PF              TIME TASK BEGAN
00033880  3598          1442         TEST LE    PF13,V$IMAI,IMAAL DOES REMAINING TIME TO REPAIR NOT
00033890  3599                     *                              EXECEED REMAINING SHIFT DURATION
00033900  3600          1443         SAVEVALUE  SPLMC*,1,XF       SPLIT BLOCK MATCH COUNT
00033910  3601          1444         ASSIGN     10,XF$SPLMC,PF    SPLIT BLOCK MATCH COUNT
00033920  3602          1445         SPLIT      1,IMAAD,,13PF     TIME DELAY XACT
00033930  3603          1446   IMAAL LINK       IMCHK,FIFO        ITEMS IN IMA CHECKOUT
00033940  3604          1447   IMAAC ADVANCE    PF13              IMA REPAIR
00033950  3605          1448         UNLINK     IREPR,IMAAE,1,10PF      ITEM IN IMA REPAIR
00033960  3606          1449         TERMINATE
00033970  3607          1450   IMAAD ADVANCE    PF13              IMA CHECKOUT TIME
00033980  3608          1451         UNLINK     IMCHK,IMAAF,1,10PF      ITEM IN IMA CHECKOUT
00033990  3609          1452         TERMINATE
00034000  3610          1453   IMAAE MSAVEVALUE AIMD*,FN$PTR12,5,1,MX   IMA REPAIRS THIS WORK CENTER
00034010  3611          1454         MSAVEVALUE AIMD*,30,5,1,MX   TOTAL IMA REPAIRS
00034020  3612          1455   IMAAG SAVEVALUE  MTRCL,23,XB       MH COL. NR. - IMA MTTR
00034030  3613          1456         SAVEVALUE  EMT,V$TTR,XH      EMT
00034040  3614          1457         TEST L     XH$EMT,1,IMAAH    IS COMPUTED TIME LESS THAN 1 HOUR
00034050  3615          1458         SAVEVALUE  EMT,10,XH         MAKE EMT 1 HOUR
00034060  3616          1459   IMAAH SAVEVALUE  MEN,PB13,XH       MANPOWER - INTERMEDIATE
00034070  3617          1460         TRANSFER   SBR,POSTJ,16PH    UPDATE AIMD STATISTICS
00034080  3618          1461         TRANSFER   ,RFIAA
00034090  3619          1462   IMAAF MSAVEVALUE PH19*,PH20,62,1,MH      NRR ACTIONS THIS WRA
00034100  3620          1463         MSAVEVALUE PH3*,PH4,42,1,MX  NRR ACTIONS THIS SUBSYSTEM
00034110  3621          1464         MSAVEVALUE SYSUM*,PB5,42,1,MX      TOTAL NRR ACTIONS
00034120  3622          1465         MSAVEVALUE AIMD*,FN$PTR12,4,1,MX   NRR ACTIONS THIS WORK CENTER
00034130  3623          1466         MSAVEVALUE AIMD*,30,4,1,MX   TOTAL AIMD NRR ACTIONS
00034140  3624          1467         TRANSFER   ,IMAAG
00034150  3625          1468   IMAAM SAVEVALUE  RAN4,RN4,XH       3-DIGIT RANDOM NUMBER
00034160  3626          1469         TEST L     XH$RAN4,MH*PH19(PH20,28),IMAAN      IS THIS A NRR ITEM
00034170  3627          1470         TRANSFER   ,IMAAB
00034180  3628          1471   IMAAG ASSIGN     43,IMAAP,PH       BLOCK DESTINATION
00034190  3629          1472         LINK       IMAWM,FIFO        IMA REPAIRS AWM
00034200  3630                     *
00034210  3631                     *
00034220  3632                     *
00034230  3633                     ***** PAGE RFI - READY FOR ISSUE ROUTINE *****
00034240  3634          1473   RFIAA GATE LR    SCD1              IS THERE NOT A SHIFT CHANGE
00034250  3635          1474         TEST NE    XB$(D$HFT,0,RFIAT IS THERE A CURRENT ORG. SHIFT
00034260  3636          1475         GATE LR    RFI1              LET 1 XACT IN
00034270  3637          1476         LOGIC S    RFI1              CLOSE THE GATE
00034280  3638          1477         ASSIGN     1,MH$EXEC(1,1),PB NUMBER OF SQUADRONS
00034290  3639          1478   RFIAZ UNLINK     MH$CHA(1,),PB1),RFIAG,ALL,6PF  REPAIRS AWP THIS WRA
00034300  3640                     *                                          THIS SQUADRON
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GPSS/H  V4/370 RELEASE 1.0 (AY142)      10 DEC 82  10:40:X4    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00034310  3691          1479          LOOP       1PB,RFIAZ          DO FOR ALL SQUADRONS
00034320  3692          1480          TEST NE    MH$RFIAZ,0,RFIAB   IS THERE AT LEAST ONE REPAIR AWP
00034330  3693          1481          PRIORITY   40,BUFFER          PROCESS UNLINKED XACT(S)
00034340  3694          1482          UNLINK     RF11,RFIAC,1,,,RFIAU    IS A/C AWP THIS WRA DUE FOR
00034350  3695                        *                                  CALENDAR INSPECTION
00034360  3696          1483  RFIAP   UNLINK     RF11,RFIAK,ALL     REMAINING XACTS ON HOLDING CHAIN
00034370  3697          1484          UNLINK     RF12,RFIAK,ALL     REMAINING XACTS ON HOLDING CHAIN
00034380  3698          1485          UNLINK     RF13,RFIAK,ALL     REMAINING XACTS ON HOLDING CHAIN
00034390  3699          1486          UNLINK     RF14,RFIAK,ALL     REMAINING XACTS ON HOLDING CHAIN
00034400  3700          1487          PRIORITY   5,BUFFER           PROCESS ALL HIGHER PRIORITY XACTS
00034410  3701          1488          LOGIC R    RF11               OPEN THE GATE
00034420  3702          1489          TERMINATE
00034430  3703          1490  RFIAK   LINK       PH10,FIFO          REPAIRS AWP
00034440  3704          1491  RFIAQ   UNLINK     RF12,RFIAC,1,1PB,1,RFIAQ      IS A/C AWP THIS WRA NMC
00034450  3705                        *                                        WITH ONLY 1 MISSING WRA
00034460  3706          1492          TRANSFER   ,RFIAP
00034470  3707          1493  RFIAJ   UNLINK     RF13,RFIAC,1,1PB,1,RFIAR      IS A/C AWP THIS WRA PMC
00034480  3708                        *                                        WITH ONLY 1 MISSING WRA
00034490  3709          1494          TRANSFER   ,RFIAP
00034500  3710          1495  RFIAR   UNLINK     RF13,RFIAC,1,,,RFIAS     IS A/C AWP THIS WRA PMC
00034510  3711          1496          TRANSFER   ,RFIAP
00034520  3712          1497  RFIAS   UNLINK     RF12,RFIAC,1,,,RFIAN     IS A/C AWP THIS WRA NMC
00034530  3713          1498          TRANSFER   ,RFIAP
00034540  3714          1499  RFIAN   UNLINK     RF14,RFIAC,1,,,RFIAV     IS THERE AT LEAST 1 REPAIR AWP
00034550  3715          1500          TRANSFER   ,RFIAP
00034560  3716          1501  RFIAV   UNLINK     RF15,RFIAK,ALL,,,DBGO7   REPAIRS AWP FROM A/C IN
00034570  3717                        *                                   CALENDAR/PHASED INSPECTION
00034580  3718          1502          TRANSFER   ,RFIAB
00034590  3719          1503  RFIAG   TEST E     MH$TYPE(6,PB6),1,RFIAJ   OPERATING UNDER CALENDAR MAINT
00034600  3720          1504          SCAN       PH7,4PB,PB4,38PB,1PB     GET CALENDAR INSPECTION FLAG.
00034610  3721          1505          TEST E     PB1,1,RFIAJ              IS A/C DUE FOR CALENDAR INSP.
00034620  3722          1506          LINK       RF11,FIFO          HOLDING CHAIN
00034630  3723          1507  RFIAJ   SCAN       PH7,4PB,PB4,9PB,9PB      GET A/C ACTIVITY
00034640  3724          1508          TEST E     PB9,11,RFIAU             IS A/C IN UNSCHEDULED MAINTENANCE
00034650  3725          1509          SCAN       PH7,4PB,PB4,37PB,1PB     GET REPAIRS AWP THIS A/C
00034660  3726          1510          TEST G     PB1,0,DBGO1              IS THERE AT LEAST 1 REPAIR AWP
00034670  3727          1511          SCAN       PH7,4PB,PB4,6PB,6PB      GET A/C STATUS
00034680  3728          1512          TEST E     PB8,26,RFIAL             IS A/C NMC
00034690  3729          1513          LINK       RF12,1PB           HOLDING CHAIN
00034700  3730          1514  RFIAL   TEST G     PB8,2,RFIAM              IS A/C PMC
00034710  3731          1515          LINK       RF13,1PB           HOLDING CHAIN
00034720  3732          1516  RFIAM   LINK       RF14,1PB           HOLDING CHAIN
00034730  3733          1517  RFIAU   LINK       RF15,1PB           HOLDING CHAIN
00034740  3734          1518  RFIAB   MSAVEVALUE PH19*,PH20,44,1,MH       SPARES CURRENTLY RFI
00034750  3735          1519          LOGIC R    RF11               OPEN THE GATE
00034760  3736          1520          TERMINATE
00034770  3737          1521  RFIAC   TEST E     PB17,17,RFIAU            HAS REMOVAL FOR CANNIBALIZATION
00034780  3738          1522          ASSIGN     33,PB17,PB         PREVIOUS MAINTENANCE ACTION TASK
00034790  3739          1523          ASSIGN     17,18,PB           TASK = REPLACE AFTER CANNIBALIZATION
00034800  3740          1524          SAVEVALUE  CUJCN,PF3,XF       CURRENT JCN
00034810  3741          1525          SAVEVALUE  JCN*,1,XF          NEW JCN
00034820  3742          1526          ASSIGN     3,XF$JCN,FF        NEW JCN
00034830  3743          1527          ALTER      PH5,1,3PF,PF3,3PF,XF$CUJCN    NEW JCN
00034840  3744          1528  RFIAE   ASSIGN     49,,,PH            RESET
00034850  3745          1529          PRIORITY   10,BUFFER          PROCESS ALL HIGHER PRIORITY XACTS
00034860  3746          1530          TEST NE    PH23,0,RFIAF       IS DISCREPANCY SCIR-RELATED
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GPSS/H  V4/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCUPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00034870  3697          1531         UNLINK     PH17,RFIAH,1,*PB,,,DBG38      A/C TO GET THIS MRA
00034880  3698          1532         BUFFER                                   PROCESS UNLINKED XACT
00034890  3699          1533  RFIAF  PRIORITY   40                            NORMAL PRIORITY
000348A0  3700          1534         UNLINK     PH17,USAAA,1,*PB,,,RFIAY      A/C TO GET THIS MRA
000348B0  3701          1535         ASSIGN     11,2,PB                       REPAIR STATUS = AWM
000348C0  3702          1536         ASSIGN     16,3,PB                       AWM REASON = BACKLOG
000348D0  3703          1537         ASSIGN     31,PH30,PH                    NEW EDC
000348E0  3704          1538         TRANSFER   SBR,CMDSA,33PH                UPDATE DISCREPANCY STATUS
000348F0  3705          1539         LINK       PH3,LIFO                      REPAIRS AWM
00034900  3706          1540  RFIAH  TRANSFER   SBR,UPDAA,16PH                UPDATE SCIR STATISTICS
00034910  3707          1541         LINK       PH26,24PH                     A/C IN MAINTENANCE
00034920  3708          1542  RFIAD  TEST E     PB17,20,DBG20                 WAS REMOVAL FOR SPARE
00034930  3709          1543         ASSIGN     33,PB17,PB                    PREVIOUS MAINTENANCE ACTION TASK
00034940  3710          1544         ASSIGN     17,14,PB                      TASK = INSTALL SPARE
00034950  3711          1545         TRANSFER   ,RFIAE
00034960  3712          1546  RFIAT  LINK       RFIDL,FIFO                    RFI DELAY CHAIN
00034970  3713          1547  RFIAY  TEST E     PH24,0,DBG39                  IS REPAIR NOT SCIR-RELATED
00034980  3714          1548         ASSIGN     17,PB33,PB                    PREVIOUS MAINTENANCE ACTION TASK
00034990  3715          1549         LINK       PH10,FIFO                     REPAIRS AWP
000349A0  3716                   *
000349B0  3717                   *
000349C0  3718                   *
000349D0  3719                   ***** PAGE BCM - BCM ROUTINE *****
000349E0  3720          1550  BCMA   MSAVEVALUE PH19*,PH20,FN$PTR13,1,MH      TIMES BCM THIS MRA
000349F0  3721          1551         MSAVEVALUE PH3*,PH4,FN$PTR14,1,MX   TIMES BCM THIS SUBSYSTEM
00034A00  3722          1552         MSAVEVALUE SYSUM*,P65,FN$PTR14,1,MX      TOTAL BCM ITEMS
00034A10  3723          1553         TEST NE    PB3,12,BCME                   NOT AN ORG. LEVEL THROWAWAY
00034A20  3724          1554         MSAVEVALUE AIMD*,FN$PTR12,FN$PTR15,1,MX  BCM ITEMS THIS WORK CTR
00034A30  3725          1555         MSAVEVALUE AIMD*,30,FN$PTR15,1,MX  TOTAL BCM ITEMS
00034A40  3726          1556         SAVEVALUE  MTRCL,23,XB                   MH COL. NR. - IMA MTTR
00034A50  3727          1557         SAVEVALUE  EMT,V$TTR,XH                  EMT
00034A60  3728          1558         TEST L     XH$EMT,10,BCMC                IS COMPUTED TIME LESS THAN 1 HOUR
00034A70  3729          1559         SAVEVALUE  EMT,10,XH                     MAKE EMT = 1 HOUR
00034A80  3730          1560  BCMC   SAVEVALUE  MEN,PB13,XH                   MANPOWER
00034A90  3731          1561         SAVEVALUE  MEN,10,XH                     MANPOWER
00034AA0  3732          1562         TRANSFER   SBR,POSTJ,16PH                UPDATE AIMD STATISTICS
00034AB0  3733          1563  BCME   TEST NE    BV$CNDEM,1,BCMF               NOT A CONDEMNED ITEM
00034AC0  3734          1564         ASSIGN     13,V$RESUP,PF                 RESUPPLY DELAY
00034AD0  3735          1565         TEST L     PF13,V$RSUPM,BCMD             IS COMPUTED TIME LESS THAN MINIMUM
00034AE0  3736                   *                                           RESUPPLY DELAY
00034AF0  3737          1566         ASSIGN     13,V$RSUPM,PF                 MAKE RESUPPLY DELAY = MINIMUM
00034B00  3738                   *                                           RESUPPLY DELAY
00034B10  3739          1567  BCMD   SAVEVALUE  SPLMC*,1,XF                   SPLIT BLOCK MATCH COUNT
00034B20  3740          1568         ASSIGN     10,AF$SPLMC,PF                SPLIT BLOCK MATCH COUNT
00034B30  3741          1569         SPLIT      1,BCMB,,13PF                  TIME DELAY XACT
00034B40  3742          1570         LINK       RESUP,FIFO                    REPAIRS AWAITING RESUPPLY
00034B50  3743          1571  BCMB   ADVANCE    PF13                          RESUPPLY DELAY
00034B60  3744          1572         UNLINK     RESUP,RFIAA,1,10PF            ITEM AWAITING RESUPPLY
00034B70  3745          1573         TERMINATE
00034B80  3746          1574  BCMF   ASSIGN     13,V$REORD,PF                 ORDER & SHIPPING TIME FOR CONDEMNED
00034B90  3747                   *                                           ITEMS
00034BA0  3748          1575         TEST L     PF13,V$RORDM,BCMD             IS COMPUTED VALUE LESS THAN MINIMUM
00034BB0  3749                   *                                           VALUE
00034BC0  3750          1576         ASSIGN     13,V$RORDM,PF                 MAKE DELAY = MINIMUM VALUE
00034BD0  3751          1577         TRANSFER   ,BCMD
00034BE0  3752                   *
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   GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00035430  3753                  *
00035440  3754                  *
00035450  3755                  ***** PAGE CAN - CANNIBALIZATION ROUTINE *****
00035460  3756                  *
00035470  3757                  *                        CANNIBALIZATION PARAMETERS .
00035480  3758                  *         PB3 = 5   CANNIBALIZATION DISCREPANCY
00035490  3759                  *         PB3 = 7   CANNIBALIZATION ACTION
00035500  3760                  *    OTHERWISE PARAMETERS SAME AS FOR DISCREPANCY AND ORGANIZATIONAL
00035510  3761                  *    REPAIR XACTS RESPECTIVELY
00035520  3762                  ********************************************************************************
00035530  3763                  * PAGE CANA - SELECT VICTIM A/C
00035540  3764           1578    CANAA GATE LR     CANB1               IS PAGE CANB ROUTINE IDLE
00035550  3765           1579          GATE LR     CANA1               LET 1  XACT IN
00035560  3766           1580          LOGIC S     CANA1               CLOSE THE GATE
00035570  3767           1581          PRIORITY    0,BUFFER            PROCESS ALL OTHER XACTS
00035580  3768           1582          PRIORITY    40                  RESTORE PRIORITY THIS XACT
00035590  3769           1583          ASSIGN      3+,1,PB             ATTEMPTS TO CANNIBALIZE
00035600  3770           1584          SAVEVALUE   NWUC,PF6,XF         NEEDED WRA
00035610  3771           1585          TEST NE     PH+3,CAN3L,CANAS    NOT FROM PAGE CANB
00035620  3772           1586          SAVEVALUE   TALND,PF+,XB        TAIL NR. OF A/C NEEDING THIS WRA
00035630  3773           1587          SAVEVALUE   WRACD,PF5,XF        A/C-WRA CODE
00035640  3774           1588    CANAB UNLINK      PH17,CANAC,1,BV$CANVC,,CANAD  POTENTIAL VICTIM A/C
00035650  3775           1589    CANAG JOIN        CANA1               TO PROVIDE INFORMATION TO VICTIM A/C
00035660  3776           1590          GATE LS     CANA2               PROCESS UNLINKED XACT
00035670  3777           1591          LOGIC R     CANA2               PROCESS POTENTIAL VICTIM A/C XACT
00035680  3778           1592          REMOVE      CANA1
00035690  3779           1593          GATE LS     CANA4,CANA6         WAS VICTIM A/C SELECTED
00035700  3780           1594          ASSIGN      11,4,PB             NEW STATUS = AWAITING CANNIBALIZED
00035710  3781                  *                                     WRA
00035720  3782           1595          SCAN        PH7,4PB,PB4,61PB,1PB     GET NR. OF REPAIRS AWAITING
00035730  3783                  *                                     CANNIBALIZED WRAS
00035740  3784           1596          INDEX       1PB,1               INCREMENT COUNT
00035750  3785           1597          ALTER       PH7,1,61PB,PB1,4PB,PB4  INCREMENT COUNT
00035760  3786           1598          TEST NE     PH43,CANBL,CANAE    NOT FROM PAGE CANB
00035770  3787           1599          ASSIGN      29,XB$TALCV,PB      TAIL NUMBER OF VICTIM A/C
00035780  3788           1600    CANAE ASSIGN      21,3,PB             REPAIR COMPLETION CODE
00035790  3789           1601          LOGIC S     CANA3               LET A/C MOVE BACK TO MAINT. CHAIN
00035800  3790           1602          PRIORITY    40,BUFFER           PROCESS ALL XACTS PR=40 OR HIGHER
00035810  3791           1603          LOGIC R     CANA3               RESET
00035820  3792           1604          TEST E      PB11,3,CANAF        IS REPAIR AWP, NOT AWAITING
00035830  3793                  *                                     CANNIBALIZATION
00035840  3794           1605          ASSIGN      17,2J,PB            TASK = SUPPLY ACTION
00035850  3795           1606          LOGIC R     CANA1               OPEN THE GATE
00035860  3796           1607          TRANSFER    ,USZAA
00035870  3797           1608    CANAC SAVEVALUE   WRACC,V$WRA;C,XF   A/C-WRA CODE
00035880  3798           1609          SCAN        PH27,5PF,XF$WRACC,,,CANAH     IS THERE A DISCREPANCY
00035890  3799                  *                                     AGAINST NEEDED WRA IN THIS A/C
00035900  3800           1610          LOGIC S     CANA2               PROCESS ENTERING XACT
00035910  3801           1611          GATE LS     CANA3               STAY OFF A/C CHAIN
00035920  3802           1612          LINK        PH26,24PH           A/C IN MAINTENANCE
00035930  3803           1613    CANAD ASSIGN      11,3,PB             NEW STATUS = AWP
00035940  3804           1614          ASSIGN      17,2J,PB            TASK = SUPPLY ACTION
00035950  3805           1615          TRANSFER    ,CANAE
00035960  3806           1616    CANAF LOGIC R     CANA4               RESET
00035970  3807           1617          TEST NE     PH43,CANBL,CANAT    NOT FROM PAGE CANB
00035980  3808           1618    CANAK TRANSFER    SHR,USKAA,11PH      RELEASE MANPOWER
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   GPSS/H  VM/370 RELEASE 1.0 (AY162)       10 DEC 82  10:40:30    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00035990  3809          1619   CANAT  LOGIC R    CANA1             OPEN THE GATE
00036000  3810          1620          TRANSFER   ,USZAA
00036010  3811          1621   CANAH  LOGIC S    CANA9             VICTIM A/C SELECTED
00036020  3812          1622          TRANSFER   SBR,UPDAA,16PH    UPDATE SCIK STATISTICS
00036030  3813          1623          SAVEVALUE  TALCV,P89,X6      TAIL NUMBER OF VICTIM A/C
00036040  3814          1624          SCAN       CANA1,6PF,XF$NWUC,3PH,3PH,08G03     SYSTEM MX INDEX
00036050  3815          1625          SCAN       CANA1,6PF,XF$NWUC,4PH,4PH      SYSTEM MX ROW NUMBER
00036060  3816          1626          SCAN       CANA1,6PF,XF$NWUC,19PH,19PH    SUBSYSTEM MH INDEX
00036070  3817          1627          SCAN       CANA1,6PF,XF$NWJC,20PH,20PH    SUBSYSTEM MH ROW NUMBER
00036080  3818          1628          SPLIT      1,CANAJ,,26P8,35PH,9PF  CANNIBALIZATION DISCREPANCY
00036090  3819                     *                                    THIS VICTIM A/C
00036100  3820          1629          GATE LS    CANA5             PROCESS SPLIT XACT
00036110  3821          1630          LOGIC R    CANA5             RESET
00036120  3822          1631          LOGIC S    CANA2             PROCESS ENTERING XACT
00036130  3823          1632          GATE LS    CANA3             STAY OFF A/C CHAIN
00036140  3824          1633          LINK       PH26,24PH         A/C IN MAINTENANCE
00036150  3825          1634   CANAJ  ASSIGN     3,6,P8            IDENT = CANNIBALIZED DISCREPANCY
00036160  3826          1635          ASSIGN     10-26,0,P8        CLEAR THERE P8'S
00036170  3827          1636          ASSIGN     11,2,P8           NEW REPAIR STATUS = AWM
00036180  3828          1637          ASSIGN     16,3,P8           AWM REASON = BACKLOG
00036190  3829          1638          TRANSFER   SBR,DISAA,11PH    ANALYZE CANNIBALIZATION DISCREPANCY
00036200  3830          1639          PRIORITY   40
00036210  3831          1640          SPLIT      1,CANAP,,6P8,11PH TO CREATE CANNIBALIZATION ACTION
00036220  3832          1641          MSAVEVALUE PH19+,PH20,61,1,MH       CANNIBALIZATION ACTIONS THIS
00036230  3833                     *                                    MRA
00036240  3834          1642          MSAVEVALUE PH3+,PH4,41,1,MX  CANNIBALIZATION ACTIONS THIS
00036250  3835                     *                                    SUBSYSTEM
00036260  3836          1643          MSAVEVALUE SYSUM+,P85,41,1,MX       TOTAL CANNIBALIZATION ACTIONS
00036270  3837          1644          JOIN       PH5               CURRENT DISCREPANCIES
00036280  3838          1645          LINK       PH6,LIFO          CURRENT DISCREPANCIES
00036290  3839          1646   CANAP  TRANSFER   SBR,RANA,11PH      CREATE CANNIBALIZATION ACTION
00036300  3840          1647          LOGIC S    CANA5             PROCESS VICTIM A/C XACT
00036310  3841          1648          TERMINATE
00036320  3842          1649   CANAS  UNLINK     PH17,CANAH,1,4PB,P829,08G24   VICTIM A/C
00036330  3843          1650          TRANSFER   ,CANAG
00036340  3844                     *
00036350  3845                     *
00036360  3846                     *
00036370  3847                     * PAGE CANB - NMC A/C HAS JUST BECOME AVAILABLE FOR POSSIBLE
00036380  3848                     *      CANNIBALIZATION
00036390  3849          1651   CANBA  PRIORITY   25                REDUCE PRIORITY
00036400  3850          1652   CANBB  GATE LR     RFI1,CANBC        IS RFI ROUTINE IDLE
00036410  3851          1653          GATE LR    CANB1             LET 1 XACT IN
00036420  3852          1654          LOGIC S    CANB1             CLOSE THE GATE
00036430  3853          1655          SAVEVALUE  TALPV,P84,X6      TAIL NUMBER THIS A/C
00036440  3854          1656          UNLINK     PH31,CANBD,ALL,BV$CANB1,,CANBE      CANDIDATE REPAIRS
00036450  3855                     *                                    FOR CANNIBALIZING THIS A/C
00036460  3856          1657          BUFFER                       PROCESS UNLINKED XACTS
00036470  3857          1658          UNLINK     CANB1,CANBJ,ALL   REPAIRS AWP FOR A/C AWAITING
00036480  3858                     *                                    CALENDAR INSPECTION
00036490  3859          1659          UNLINK     CANB2,CANBJ,ALL   REPAIRS AWP FROM NMC A/C HAVING ONLY
00036500  3860                     *                                    1 AWP DISCREPANCY
00036510  3861          1660          UNLINK     CANB3,CANBJ,ALL   REPAIRS AWP FROM NMC A/C
00036520  3862          1661          UNLINK     CANB4,CANBJ,ALL   REPAIRS AWP FROM PMC A/C
00036530  3863          1662          BUFFER                       PROCESS UNLINKED XACTS
00036540  3864          1663   CANBC  LOGIC R    CANB1             OPEN THE GATE
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GPSS/H  VM/370 RELEASE 1.0 (AY142)      15 DEC 82  10:40:04    FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00036550  3865          1664          TERMINATE
00036560  3866          1665   CANBC  ADVANCE    1               WAIT 1 CLOCK UNIT
00036570  3867          1666          TRANSFER   ,CANBB
00036580  3868          1667   CANBD  MSAVEVALUE PH19,PH20,46,0,MH RESET NOT AVAILABLE FLAG
00036590  3869          1668          TEST E     MH$TYPE(0,PB6),1,CANBF      OPERATING UNDER CALENDAR
00036600  3870                *                                              MAINTENANCE
00036610  3871          1669          SCAN       PH7,4PB,PB4,38P8,1P8   GET CALENDAR INSPECTION FLAG
00036620  3872          1670          TEST E     PB1,1,CANBF            IS A/C DUE FOR CALENDAR INSP.
00036630  3873          1671          LINK       CANB1,FIFO             HOLDING CHAIN
00036640  3874          1672   CANBF  SCAN       PH7,4PB,PB4,9PB,9PB    GET A/C ACTIVITY
00036650  3875          1673          TEST NE    PB9,9,CANBG            IS A/C NOT IN CALENDAR INSPECTION
00036660  3876          1674          SCAN       PH7,4PB,PB4,8PB,1PB    GET A/C MISSION CAPABILITY
00036670  3877          1675          SCAN       PH7,4PB,PB4,24PH,1PH   GET A/C ITR
00036680  3878          1676          SCAN       PH7,4PB,PB4,37P8,37P8  GET REPAIRS AWP THIS A/C
00036690  3879          1677          TEST E     PB8,26,CANBH           IS A/C NMC
00036700  3880          1678          TEST E     PB37,1,CANBI           IS THIS THE ONLY AWP DISCREPANCY
00036710  3881                *                                          THIS A/C
00036720  3882          1679          LINK       CANB2,1PH              HOLDING CHAIN
00036730  3883          1680   CANBI  LINK       CANB3,1P8              HOLDING CHAIN
00036740  3884          1681   CANBH  TEST G     PB8,2,DBG49            IS A/C PMC
00036750  3885          1682          LINK       CANB4,1P8              HOLDING CHAIN
00036760  3886          1683   CANBG  LINK       PH19,FIFO              REPAIRS AWP
00036770  3887          1684   CANBJ  SAVEVALUE  WRACD,PF5,XF           A/C-WRA CODE THIS WRA
00036780  3888          1685          SAVEVALUE  WRACC,V$WRACC,XF       A/C WRA CODE - A/C THAT JUST BECAME
00036790  3889                *                                          AVAILABLE FOR CANNIBALIZATION
00036800  3890          1686          SCAN       PH5,5PF,XF$WRACC,,,CANBM    IS THERE A DISCREPANCY
00036810  3891                *                                          AGAINST THIS WRA IN A/C THAT JUST
00036820  3892                *                                          BECAME AVAILABLE FOR CANNIBALIZATION
00036830  3893          1687          TRANSFER   ,CANBG
00036840  3894          1688   CANBM  TEST E     MH*PH19(PH20,46),0,CANBG    IS THIS WRA AVAILABLE
00036850  3895                *                                          FOR CANNIBALIZATION
00036860  3896          1689          MSAVEVALUE PH19,PH20,46,1,MH      THIS WRA IS NO LONGER AVAILABLE
00036870  3897                *                                          FOR CANNIBALIZATION
00036880  3898          1690          ASSIGN     29,XB$TAILPV,PB        TAIL NUMBER OF VICTIM A/C
00036890  3899          1691          ASSIGN     43,CANBL,PH            TRANSFER BLOCK
00036900  3900          1692   CANBL  TRANSFER   ,CANAA
00036910  3901                *
00036920  3902                *
00036930  3903                *
00036940  3904                ***** PAGE CAL - CALENDAR MAINTENANCE ROUTINE *****
00036950  3905                * PAGE CALA - SELECT A/C FOR CALENDAR MAINTENANCE
00036960  3906          1693   CALAA  PRIORITY   55
00036970  3907          1694          ASSIGN     6,MH$COMPL(2,PB5),PB   A/C TYPE
00036980  3908          1695          ADVANCE    V$TCAL1                FIRST CALENDAR INSPECTION
00036990  3909          1696   CALAB  INDEX      1PH,1                  I.D. THIS CALENDAR INSPECTION EVENT
00037000  3910          1697          SPLIT      1,CALAC,,3PH,9PB       CALENDAR INSPECTION CALLING XACT
00037010  3911          1698          ADVANCE    V$CCINT                NEXT CALENDAR INSPECTION
00037020  3912          1699          TRANSFER   ,CALAM
00037030  3913          1700   CALAC  ASSIGN     5,MH$GRP(7,PH5),PH     GROUP INDEX - A/C THIS SQDRN
00037040  3914          1701          SCAN       PH3,21P8,V$CALL,4P8,4P8     GET TAIL NUMBER OF A/C
00037050  3915                *                                              DUE FOR CALENDAR INSPECTION
00037060  3916          1702          ALTER      PH3,1,38PF,1,4P3,PH9   A/C CALENDAR INSPECTION FLAG
00037070  3917          1703   CALAD  SCAN       PH3,4PF,PB4,9PB,9PB    GET A/C ACTIVITY
00037080  3918          1704          SCAN       PH3,4PB,PB4,34P8,8P8   GET A/C LOCATION
00037090  3919          1705          TEST E     BV$CALAV,1,CALAE       IS A/C AVAILABLE FOR CALENDAR
00037100  3920                *                                          INSPECTION
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GPSS/H  V4/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

 LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G  COMMENTS

00037110  3921          1706          UNLINK     MH$CHA(6,PB5),CALAF,1,4PB,,DBG11    A/C DUE FOR
00037120  3922                      *                                                 CALENDAR INSPECTION
00037130  3923          1707          TERMINATE
00037140  3924          1708   CALAE  ADVANCE    1
00037150  3925          1709          TRANSFER   ,CALAD
00037160  3926          1710   CALAF  TRANSFER   SNR,UPDAA,16PH     UPDATE SCIR STATISTICS
00037170  3927          1711          ASSIGN     40,0,PB             RESET GROUND CREW PREFLIGHT NOT
00037180  3928                      *                                NEEDED FLAG
00037190  3929          1712          ASSIGN     39,PB8,PB           MISSION CAPABILITY PRIOR TO
00037200  3930                      *                                SCHEDULED INSPECTION
00037210  3931          1713          ASSIGN     31,26,PB            NEW MISSION CAPABILITY = NMC
00037220  3932          1714          TRANSFER   SNR,CHMCA,16PH      UPDATE A/C MISSION CAPABILITY
00037230  3933          1715          JOIN       PH34                A/C IN MAINTENANCE
00037240  3934          1716          ASSIGN     9,9,PB              ACTIVITY = UNDERGOING SCHEDULED
00037250  3935                      *                                INSPECTION
00037260  3936          1717          ASSIGN     21,MH$STO(7,PB5),PH      EVENT = SCHEDULED INSPECTION
00037270  3937          1718          ENTER      PH21
00037280  3938          1719          TEST E     BV$CYOPS,1,CALAI    CYCLIC OPS
00037290  3939          1720          ASSIGN     38,2,PB             SCHEDULED INSPECTION FLAG = AWAITING
00037300  3940                      *                                RESPOT
00037310  3941          1721          ASSIGN     18,V$RSPOT,PH       TIME TO RESPOT A/C
00037320  3942          1722          TEST L     PH1H,MH$COMPL(17,PB5),CALAG    IS COMPUTED RESPOT TIME
00037330  3943                      *                                LESS THAN MINIMUM
00037340  3944          1723          ASSIGN     18,MH$COMPL(17,PB5),PH   MINIMUM RESPOT TIME
00037350  3945          1724   CALAG  GATE LS    RSPM2,CALAH         OK TO RESPOT A/C
00037360  3946          1725          TEST NE    PB34,1,CALAI        IS A/C NOT ON HANGAR DECK
00037370  3947          1726   CALAJ  GATE SNF   MH$STO(41,PB5),CALAK     IS HANGAR DECK MAINTENANCE
00037380  3948                      *                                SPACE AVAILABLE
00037390  3949          1727          ENTER      MH$STO(41,PB5)      GET MAINTENANCE SPACE
00037400  3950          1728          ASSIGN     34,0,PB             LOCATION = UNDERGOING RESPOT
00037410  3951          1729          ADVANCE    PH18                RESPOT TIME
00037420  3952          1730          ASSIGN     34,1,PB             LOCATION = HANGAR DECK MAINTENANCE
00037430  3953                      *                                SPACE
00037440  3954          1731   CALAI  ASSIGN     39,3,PB             SCHEDULED INSP. FLAG = IN PROGRESS
00037450  3955          1732          ASSIGN     1,XB$NEG1,PB        MAKE PB1 = -1
00037460  3956                      *  INITIAL    XB$NEG1,-1
00037470  3957          1733          TEST E     MH$TYPE(5,PB6),1,CALAJ      OPERATING UNDER CALENDAR
00037480  3958                      *                                MAINTENANCE
00037490  3959          1734          ASSIGN     40,V$CALID,PH       CALENDAR INSPECTION DURATION
00037500  3960          1735   CALAM  SPLIT      11,CALAN,1PB,38PB,49PH,15PF    SCHED. MAINT. TASKS BY
00037510  3961                      *                                WORK CENTER
00037520  3962          1736          LINK       PH26,FIFO           A/C IN MAINTENANCE
00037530  3963          1737   CALAH  ASSIGN     11,CALAG,PH         UNLINK DESTINATION
00037540  3964          1738          LINK       SPOTQ,FIFO          A/C AWAITING RESPOT
00037550  3965          1739   CALAK  ASSIGN     11,CALAJ,PH         UNLINK DESTINATION
00037560  3966          1740          LINK       SPOTQ,FIFO          A/C AWAITING RESPOT
00037570  3967          1741   CALAN  ASSIGN     3,15,PB             IDENT. = SCHEDULED MAINTENANCE TASK
00037580  3968          1742          MARK       2PF                 TIME XACT CREATED
00037590  3969          1743          MARK       15PF                TIME SCHED. MAINTENANCE BEGAN THIS
00037600  3970                      *                                A/C
00037610  3971          1744          PRIORITY   37                  REDUCE PRIORITY
00037620  3972          1745          ASSIGN     11,,,PF             RESET
00037630  3973          1746          ASSIGN     7,MH$GRP(7,PB5),PH       GROUP INDEX = SQUADRON
00037640  3974          1747          ASSIGN     17,MH$CHA(2,PB5),PH      CHAIN INDEX = A/C IN MAINT.
00037650  3975          1748          ASSIGN     27,MH$TYPE(7,PB6),PH     MH INDEX = SCHEDULED MAINT.
00037660  3976          1749          TEST L     MH$TYPE(5,PB6),1,PHABA       OPERATING UNDER CALENDAR
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LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00037670  3977                *                                                MAINTENANCE
00037680  3978          1750          TRANSFER   ,CALBA
00037690  3979          1751   CALAU  ASSIGN     [illegible],PH      PHASED INSP. DURATION
00037700  3980          1752          TRANSFER   ,CALAM
00037710  3981                *
00037720  3982                *
00037730  3983                *
00037740  3984                * PAGE CALB - PERFORM CALENDAR MAINTENANCE TASKS
00037750  3985                *              CALENDAR MAINTENANCE TASK XACTS
00037760  3986                * PB3 = XACT IDENT.
00037770  3987                *       15 = CALENDAR MAINTENANCE
00037780  3988                * PH38 = SCHEDULED MAINTENANCE DURATION THIS A/C
00037790  3989                * PF15 = TIME SCHEDULED MAINTENANCE BEGAN THIS A/C
00037800  3990                * ALL OTHER PARAMETERS SAME AS FOR ORGANIZATIONAL REPAIR XACTS
00037810  3991                **********************************************************************
00037820  3992          1753   CALBA  TEST NE    MH*PH27(PB1,2),0,CALCA  DOES THIS W.C. HAVE A CALENDAR
00037830  3993                *                                        MAINTENANCE TASK
00037840  3994          1754          ASSIGN     13-14,MH*PH27(PB1,3),PH CALENDAR MAINT. TASK DURATION
00037850  3995                *                                        THIS WORK CENTER
00037860  3996          1755          ASSIGN     38,MH*PH27(PB1,2),PB    MANPOWER REQUIRED THIS WORK
00037870  3997                *                                        CENTER
00037880  3998          1756   CALBP  ASSIGN     5,MH$GRP(1,PB5),PH      GROUP INDEX - DISCREPANCIES
00037890  3999                *                                        THIS SQUADRON
00037900  4000          1757          ASSIGN     6,MH$CHA(1,PB5),PH      CHAIN INDEX - DISCREPANCIES
00037910  4001                *                                        THIS SQUADRON
00037920  4002          1758          ASSIGN     7,MH$GRP(6,PB5),PH      GROUP INDEX - A/C THIS SQDRN
00037930  4003          1759          ASSIGN     8,MH$CHA(9,PB5),PH      CHAIN INDEX - REPAIRS IN WORK
00037940  4004          1760          ASSIGN     9,MH$CHA(12,PB5),PH     CHAIN INDEX - REPAIRS AWM
00037950  4005          1761          ASSIGN     17,MH$CHA(2,PB5),PH     CHAIN INDEX - A/C IN MAINT.
00037960  4006          1762          ASSIGN     45,MH*PH27(PB1,1),PH    WORK CENTER I.D.
00037970  4007          1763          ASSIGN     10,2,PB            STATUS = AWM
00037980  4008          1764          ASSIGN     13,1,PB            TASK LOCATION = HANGAR DECK
00037990  4009          1765          TEST E     BV$CYOPS,1,CALAP   CYCLIC OPS
00038000  4010          1766   CALAP  ASSIGN     21,[illegible],PB  RESET
00038010  4011          1767          SAVEVALUE  HKCPH,39,XH        PH INDEX
00038020  4012          1768          SAVEVALUE  HKC,PH45,XH        WORK CENTER I.D. - ORGANIZATIONAL
00038030  4013          1769          TRANSFER   SBR,RAND,11PH      ASSIGN ORG. WORK CENTER STORAGE,
00038040  4014                *                                     QUEUE AND GROUP INDICES
00038050  4015          1770          ASSIGN     30-31,0,PB         CLEAR THESE PB'S
00038060  4016          1771          ASSIGN     28-31,2691,PH      EOC = SCHEDULED MAINTENANCE
00038070  4017          1772          ASSIGN     48-49,0,PH         CLEAR THESE PH'S
00038080  4018          1773          SAVEVALUE  JCN+,1,XF          NEXT AVAILABLE JCN
00038090  4019          1774          ASSIGN     3,XF$JCN,PF        MATCHING PARAMETER
00038100  4020          1775          SPLIT      1,CALBQ            SCHEDULED MAINTENANCE DISCREPANCY
00038110  4021          1776          PRIORITY   30,BUFFER          PROCESS SPLIT XACT
00038120  4022          1777          PRIORITY   37                 NORMAL SCHED. MAINT. TASK PRIORITY
00038130  4023          1778   CALBQ  SCAN       PH7,4PB,=B4,8PB,6PH     GET A/C MISSION CAPABILITY
00038140  4024          1779          TEST E     PB31,0,CALBE       IS TASK NOT ALREADY IN MANPOWER
00038150  4025                *                                     QUEUE
00038160  4026          1750          QUEUE      PH42               MANPOWER QUEUE
00038170  4027          1731          QUEUE      MH$QUE(12,PB5)     EVENT QUEUE
00038180  4028          1732          ASSIGN     30-31,1,PB         SET QUEUE FLAGS
00038190  4029          1733   CALBR  GATE LR    SCDI               IS THERE NOT A SHIFT CHANGE
00038200  4030          1734          TEST NE    X$$USHFT,0,CALBC   IS THERE A CURRENT SHIFT
00038210  4031          1735          GATE LR    UPDAT              IS PAGE UPD SUBROUTINE IDLE
00038220  4032          1736          ASSIGN     18,X$$USHFT,PB     CURRENT SHIFT
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   GPSS/H  V4/370 RELEASE 1.0 (AV142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00038230  4033          1787          ASSIGN     99,P4*V$WCORG,PH  STORAGE INDEX = WORK CENTER USED
00038240  4034          1788          TEST GE    K*P444,P138,CALBH IS MANPOWER AVAILABLE
00038250  4035          1789          ENTER      PH44,PB34         GET MANPOWER
00038260  4036          1790          DEPART     PH42              MANPOWER QUEUE
00038270  4037          1791          DEPART     MH$QUE(12,PB5)    EVENT QUEUE
00038280  4038          1792          ASSIGN     47,*,PH           CLEAR THIS PM
00038290  4039          1793          ASSIGN     30-31,0,PB        RESET QUEUE FLAGS
00038300  4040          1794          MARK       14PF              TIME MANPOWER OBTAINED
00038310  4041          1795          MARK       12PF              TASK START TIME
00038320  4042          1796          TEST E     PF11,0,CALBI      HAS TASK NOT YET STARTED
00038330  4043          1797          MARK       11PF              TASK START TIME
00038340  4044          1798  CALBI   UNLINK     PH17,CALBK,1,4PB,,DBG46 A/C IN MAINTENANCE
00038350  4045          1799          PRIORITY   20,BUFFER         PROCESS UNLINKED XACT
00038360  4046          1800          PRIORITY   37                NORMAL PRIORITY
00038370  4047          1801          ASSIGN     11,1,PB           NEW STATUS = IN WORK
00038380  4048          1802          TRANSFER   SBR,CHDSA,33PH    UPDATE DISCREPANCY STATUS
00038390  4049          1803          MARK       12PF              TASK START TIME THIS SHIFT
00038400  4050          1804          TEST E     PH49,0,CALBL      HAS THIS TASK NOT BEEN PREVIOUSLY
00038410  4051                        *                            STARTED
00038420  4052          1805          ASSIGN     49,PH13,PH        TOTAL TASK EMT
00038430  4053          1806  CALBL   SAVEVALUE  SPLMC*,1,XF       SPLIT BLOCK MATCH COUNT
00038440  4054          1807          ASSIGN     10,XF$SPLMC,PF    SPLIT BLOCK MATCH COUNT
00038450  4055          1808          SPLIT      1,CALBM           TIME DELAY XACT
00038460  4056          1809          LINK       PH8,14PH          TASKS IN WORK
00038470  4057          1810  CALBH   ASSIGN     11,2,PB           NEW STATUS = AWM
00038480  4058          1811          ASSIGN     16,3,PB           REASON CODE = BACKLOG
00038490  4059          1812  CALBF   TEST E     BV$UPDA1,1,CALBQ  UPDATE SCIR STATISTICS?
00038500  4060          1813          GATE LR    UPDA1             IS PAGE UPD ROUTINE STILL IDLE
00038510  4061          1814          UNLINK     PH17,CALBK,1,4PB,,DBG12 A/C IN MAINTENANCE
00038520  4062          1815          PRIORITY   20,BUFFER         PROCESS UNLINKED XACT
00038530  4063          1816          PRIORITY   37                NORMAL PRIORITY
00038540  4064          1817  CALBQ   TRANSFER   SBR,CHDSA,33PH    UPDATE DISCREPANCY STATUS
00038550  4065          1818          LINK       PH9,FIFO          TASKS AWM
00038560  4066          1819  CALBC   ASSIGN     11,2,PB           NEW STATUS = AWM
00038570  4067          1820          ASSIGN     16,4,PB           REASON CODE = OFF-SHIFT
00038580  4068          1821          TRANSFER   ,CALBF
00038590  4069          1822  CALBK   TRANSFER   SBR,UPDAA,16PH    UPDATE SCIR STATISTICS
00038600  4070          1823          LINK       PH26,24PH         A/C IN MAINTENANCE
00038610  4071          1824  CALBM   ADVANCE    PH49              TASK EMT
00038620  4072          1825          UNLINK     PH8,CALBN,1,10PF  CALENDAR MAINTENANCE TASK
00038630  4073          1826          TERMINATE
00038640  4074          1827  CALBN   ASSIGN     21,1,PB           TASK COMPLETED
00038650  4075          1828          ASSIGN     49*,4P12*F,PH     CUMULATIVE EMT
00038660  4076          1829          TRANSFER   SBR,USKAA,11PH    RELEASE MANPOWER
00038670  4077          1830          UNLINK     PH6,CALB6,1,3PF,,DBG43  DISCREPANCY THIS TASK
00038680  4078          1831          TRANSFER   ,CALCA
00038690  4079          1832  CALB6   TRANSFER   SBR,DECDA,33PH    DECREMENT DISCREPANCY COUNT THIS A/C
00038700  4080          1833          TERMINATE
00038710  4081          1834  CALBQ   ASSIGN     3,14,PH           I.D. = SCHEDULED MAINT. DISCREPANCY
00038720  4082          1835          JOIN       PH5               DISCREPANCIES THIS SQUADRON
00038730  4083          1836          TRANSFER   SBR,INCDA,33PH    INCREMENT DISCREPANCY COUNT THIS A/C
00038740  4084          1837          LINK       PH6,14PH          DISCREPANCIES THIS SQUADRON
00038750  4085                        *
00038760  4086                        *
00038770  4087                        *
00038780  4088                        * PAGE CALL - COMPLETE CALENDAR INSPECTION
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   GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:30    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00038790  4089          1838    CALCA ASSEMBLE   11               CALENDAR MAINTENANCE TASKS
00038800  4090          1839          SCAN       PH7,4PH,PB4,4JPH,36PH   GET SCHEDULED MAINTENANCE
00038810  4091                *                                    DURATION THIS A/C
00038820  4092          1840          SAVEVALUE  CALRM,V$CALRM,XH  REMAINING CALENDAR MAINTENANCE
00038830  4093                *                                    DURATION THIS A/C
00038840  4094          1841          TEST G     XH$CALRM,0,CALCN  ANY REMAINING DURATION
00038850  4095          1842          ADVANCE    XH$CALRM          COMPLETE DURATION
00038860  4096          1843    CALCN UNLINK     PH17,CALCG,1,4PB  A/C IN CALENDAR MAINTENANCE
00038870  4097          1844          TERMINATE
00038880  4098          1845    CALCG TRANSFER   SBR,UPDAA,16PH    UPDATE SCIR STATISTICS
00038890  4099          1846          ASSIGN     31,PB39,PB        STATUS = STATUS PRIOR TO UNSCHEDULED
00038900  4100                *                                    MAINTENANCE
00038910  4101          1847          TRANSFER   SBR,CHMCA,16PH    UPDATE A/C MISSION CAPABILITY
00038920  4102          1848          MSAVEVALUE PH1$*,6,2,1,MH    INSPECTIONS BY EVENT
00038930  4103          1849          ASSIGN     3),9,PB           LAST INSPECTION = CALENDAR/PHASED
00038940  4104          1850          TEST E     MH$TYPE(5,PB6),1,PHACA      OPERATING UNDER CALENDAR
00038950  4105                *                                               MAINTENANCE
00038960  4106          1851          ASSIGN     36,1,PB           CHECK FLIGHT FLAG
00038970  4107          1852    CALCP LEAVE      PH21              EVENT STORAGE
00038980  4108          1853          ASSIGN     23,7,PB           SYSTEM/SUBSYSTEM MATRIX COL. = WHEN
00038990  4109                *                                    DISCOVERED = CALENDAR INSPECTION
00039000  4110          1854          TRANSFER   SBR,DISAA,11PH    TEST FOR NEW DISCREPANCIES
00039010  4111          1855          TEST E     PB28,0,CALCH      ARE THERE NO NEW DISCREPANCIES
00039020  4112          1856          TEST E     PB8,1,CALCI       IS A/C OPC
00039030  4113          1857          JOIN       MH$GRP(9,PB5)     OPC A/C
00039040  4114          1858    CALCI ASSIGN     9,1,PB            AVAILABLE FOR MISSION CALL
00039050  4115          1859          TEST E     BV$CYOPS,1,CALCJ  CYCLIC OPS
00039060  4116          1860          GATE LS    RSPMJ,CALCJ       OK TO RESPOT A/C
00039070  4117          1861          TRANSFER   SBR,RSPFA,11PH    RESPOT TO FLIGHT DECK
12/10/82  4118          1862          ASSIGN     18,V$RSPOT,PH     RESPOT TIME
00039080  4119          1863    CALCJ REMOVE     PH39              A/C IN MAINTENANCE
00039090  4120          1864          MARK       15PF              TIME MAINTENANCE COMPLETED
00039100  4121          1865          ASSIGN     40,0,PB           RESET GROUND CREW PREFLIGHT NOT
00039110  4122                *                                    NEEDED FLAG
00039120  4123          1866          LINK       PH7,3PB           A/C NOT IN MAINTENANCE
00039130  4124          1867    CALCH TEST G     PB31,PB8,USAAA    DID STATUS CHANGE OCCUR
00039140  4125          1868          TRANSFER   SBR,CHMCA,16PH    UPDATE A/C MISSION CAPABILITY
00039150  4126          1869          TRANSFER   ,USAAA
00039160  4127                *
00039170  4128                *
00039180  4129                *
00039190  4130                ***** PAGE PHA - PHASED MAINTENANCE ROUTINE *****
00039200  4131                * PAGE PHAA - SELECT A/C FOR PHASED INSPECTION
00039210  4132          1870    PHAAA TEST G     PH37,V$PHAD2,PHAAB      IS PHASED INSP. NOT YET DUE
00039220  4133          1871          TRANSFER   PH,16,1
00039230  4134          1872    PHAAB TEST NE    MH$COMPL(9,PB5),0,CALAF      LIMIT ON A/C IN PHASE?
00039240  4135          1873          TEST L     S*MH$STU(7,PB5),MH$COMPL(9,PB5),PHAAC     CAN A/C
00039250  4136                *                                               ENTER PHASED INSPECTION
00039260  4137          1874          TRANSFER   ,CALAF
00039270  4138          1875    PHAAC TEST LE    PH37,V$PHAD3,PHAAD      IS PHASED INSPECTION PAST DUE
00039280  4139          1876          ASSIGN     9,14,PH           ACTIVITY = AWAITING SCHEDULED INSP.
00039290  4140          1877    PHAAD TRANSFER   PH,16,1
00039300  4141                *
00039310  4142                *
00039320  4143                *
00039330  4144                * PAGE PHAB - PERFORM PHASED INSPECTION
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GPSS/H  V4/370 RELEASE 1.0 (AY142)       15 DEC 82  10:40:04    FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0003934C  4145            1878   PHABA ASSIGN     2,V$PHA04,PB       COLUMN NUMBER - MH$PHAS_
0003935C  4146            1879         TEST NE    MH*PH27(PB1,PB2),0,CALCA      DOES THIS WORK CENTER
0003936C  4147                 *                                      HAVE A TASK THIS PHASE
0003937C  4148            1880         ASSIGN     33,MH*PH27(PB1,PB2),P3  MANPOWER REQUIRED THIS W.C.
0003938C  4149            1881         ASSIGN     2+,10,PB           COLUMN NUMBER - MH$PHAS_
0003939C  4150            1882         ASSIGN     13-14,MH*PH27(PB1,PB2),PH      TASK DURATION THIS W.C.
000394CC  4151            1883         TRANSFER   ,CALSP
0003941C  4152                 *
0003942C  4153                 *
0003943C  4154                 *
0003944C  4155                 * PAGE PHAC - COMPLETE PHASED INSPECTION
0003945C  4156            1884   PHACA ASSIGN     36,MH*PH36(14,V$PHA04),PB      CHECK FLIGHT REQUIREMENT
0003946C  4157            1885         TEST NE    PB15,MH$TYPE(12,P36),PHACC     IS THIS NOT THE LAST
0003947C  4158                 *                                      PHASE OF THE CYCLE
0003948C  4159            1886         ASSIGN     15+,1,PB           NEXT PHASE DUE
0003949C  4160            1887   PHACD ASSIGN     37+,V$PHA01,PH     FLIGHT TIME UNTIL NEXT PHASE DUE
0003950C  4161            1888         UNLINK     PH7,PHACB,1,9PB,15       A/C AWAITING PHASED INSPECTION
0003951C  4162            1889         TRANSFER   ,CALCP
0003952C  4163            1890   PHACC ASSIGN     15,1,PB            NEXT PHASE DUE
0003953C  4164            1891         TRANSFER   ,PHACD
0003954C  4165            1892   PHACB TRANSFER   SBR,PHAAA,16PH     PHASED INSPECTION
0003955C  4166            1893         LINK       PH7,8PB            A/C NOT IN MAINTENANCE
0003956C  4167                 *
0003957C  4168                 *
0003958C  4169                 *
0003959C  4170                 ***** PAGE SCD - ORGANIZATIONAL MAINTENANCE SHIFT CONTROL ROUTINE *****
0003960C  4171            1894   SCDAA GENERATE   ,,1,1,100,6PB,8PH,3PF   CONTROL XACT
0003961C  4172            1895         ASSIGN     3,8,PB             XACT I.D. = ORG. SHIFT CONTROL
0003962C  4173            1896         SAVEVALUE  SCASM,MH$EXEC(1,1),XB   NUMBER OF SQUADRONS
0003963C  4174            1897         SAVEVALUE  SCAS4+,1,XB        ASSEMBLE COUNT
0003964C  4175            1898   SCDAF SAVEVALUE  OPROW,2,XH         ROW NUMBER - MA$OPS
0003965C  4176            1899         SAVEVALUE  ADMH,OPS,XH        MH INDEX - OPS
0003966C  4177            1900         SAVEVALUE  ADROW,2,XH         ROW NUMBER - MA$OPS
0003967C  4178            1901         TRANSFER   SBR,ADVCA,6PH      DETERMINE NEXT 1ST SHIFT START TIME
0003968C  4179            1902         ASSIGN     1,XH$ADCOL,P4      COLUMN NUMBER - MH$OPS
0003969C  4180            1903         ADVANCE    XH$ADVNC           NEXT 1ST SHIFT START TIME
0003970C  4181            1904         TEST GE    C1,XF$OFIN,DBG25         IS THERE NO CONFLICT WITH
0003971C  4182                 *                                      PREVIOUS SCHEDULE
0003972C  4183            1905         SAVEVALUE  OFIN,C1,XF         CURRENT CLOCK
0003973C  4184            1906         TEST L     BV$CYOPS,1,SCDAC   CYCLIC OPS
0003974C  4185            1907         TEST E     MH$OPS(V$OPROW,PH1),0,SCDAC   IS THIS A NON-FLYING DAY
0003975C  4186            1908         TEST NE    MH$OPS(17,PH1),0,SCDAC  IS A MAINT. RESPOT SCHEDULED
0003976C  4187            1909         SPLIT      1,SCDAD            TO INITIATE MAINTENANCE RESPOT
0003977C  4188            1910   SCDAC ASSIGN     1,1,PB             SHIFT NUMBER
0003978C  4189            1911         ASSIGN     2,MH$OPS(3,PH1),PH       1ST SHIFT DURATION
0003979C  4190            1912         SAVEVALUE  OFIN,PH2,XF        END TIME THIS SHIFT
000397AC  4191            1913         SAVEVALUE  SPLMC+,1,XF        SPLIT BLOCK MATCH COUNT
000397BC  4192            1914         ASSIGN     3,XF$SPL4C,PF      MATCHING PARAM.
000397CC  4193            1915         SPLIT      1,SCDAE            1ST SHIFT CONTROL XACT
000397DC  4194            1916         TEST G     MH$OPS(1,PH1),1,SCDAF    IS THERE ANOTHER SHIFT THIS
000397EC  4195                 *                                      DAY
000397FC  4196            1917         ASSIGN     1,2,PH             SHIFT NUMBER
0003980C  4197            1918         ASSIGN     2,MH$OPS(4,PH1),PH       2ND SHIFT DURATION
0003981C  4198            1919         SAVEVALUE  OFIN+,PH2,XF       END TIME THIS SHIFT
0003982C  4199            1920         SPLIT      1,SCDAW            2ND SHIFT CONTROL XACT
0003983C  4200            1921         TRANSFER   ,SCDAF
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GPSS/H  V4/37x RELEASE 1.3 (AY142)       1> DEC 82  10:40:04    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,..F,G   COMMENTS

0003990  4261          1922   SCOAW PRIORITY   105
0003991  4262          1923         LINK       SCX2,FIFO          2ND SHIFT CONTROL XACTS
0003992  4263          1924   SCOAC LOGIC S    RSPMQ              CALL MAINTENANCE RESPOT QUARTERS
0003993  4264          1925         ASSIGN     5,X$$NEG1,PB       TO SERIALIZE SPLIT XACTS
0003994  4265          1926         SPLIT      MH$EXEC(1,1),DAILA,5PB,6PB,1PM      DAILY INSPECTIONS
0003995  4266          1927         ADVANCE    MH$OPS(1,PH1)      MAINT. RESPOT QUARTERS DURATION
0003996  4267          1928         LOGIC R    RSPMQ              SECURE MAINTENANCE RESPOT QUARTERS
0003997  4268          1929         TERMINATE
0003998  4269          1930   SCOAE GATE LR    SCD1               WAIT IF SHIFT CHANGE IN PROGRESS
0003999  4270          1931         LOGIC S    SCD1               SHIFT CHANGE IN PROGRESS
0004000  4271          1932   SCOAH SPLIT      MH$EXEC(1,1),SCOAX,5PB  SHIFT START CONTROL XACTS
0004001  4272          1933   SCOAJ ASSEMBLE   X8$SCASM
0004002  4273          1934         SAVEVALUE  OSHFT,PB1,X8       SHIFT NUMBER
0004003  4274          1935         UNLINK     RFIDL,RFIAA,ALL    NRAS RFI ON DELAY CHAIN
0004004  4275          1936         LOGIC R    SCD1               SHIFT CHANGE COMPLETED
0004005  4276          1937         ADVANCE    PH2                END OF SHIFT
0004006  4277          1938         LOGIC S    SCD1               SHIFT CHANGE IN PROGRESS
0004007  4278          1939         SPLIT      MH$EXEC(1,1),SCOAY,5PB  SHIFT END CONTROL XACTS
0004008  4279          1940   SCOAO ASSEMBLE   X8$SCASM
0004009  4280          1941         TEST E     PB1,1,SCOAG        IS THIS THE 1ST SHIFT
0004010  4281          1942         UNLINK     SCX2,SCOAH,1,3PF,,SCOAG 2ND SHIFT CONTROL XACT
0004011  4282          1943         TERMINATE
0004012  4283          1944   SCOAG SAVEVALUE  OSHFT,0,X8         RESET
0004013  4284          1945         LOGIC R    SCD1               SHIFT CHANGE COMPLETED
0004014  4285          1946         TERMINATE
0004015  4286          1947   SCOAX ASSIGN     5-,1,PB            SQUADRON I.D.
0004016  4287          1948         UNLINK     MH$CHA(8,PB5),SCOAI,ALL       A/C AWAITING LINE INSP.
0004017  4288          1949         UNLINK     MH$CHA(12,PB5),USBAA,ALL,17PB,17    CANNIBALIZATION
0004018  4289                   *                                              ACTIONS
0004019  4290          1950         PRIORITY   22,BUFFER          PROCESS UNLINKED XACTS
0004020  4291          1951         UNLINK     MH$CHA(2,PB5),USAAA,ALL,9PB,11      A/C IN UNSCHED.
0004021  4292                   *                                              MAINTENANCE
0004022  4293          1952         BUFFER                        PROCESS UNLINKED XACTS
0004023  4294          1953         UNLINK     MH$CHA(12,PB5),CALBD,ALL,3PB,15     SCHEDULED MAINT.
0004024  4295                   *                                              XACTS
0004025  4296          1954         TRANSFER   ,SCOAJ
0004026  4297          1955   SCOAY ASSIGN     5-,2,PB            SQUADRON I.D.
0004027  4298          1956         UNLINK     MH$CHA(2,PB5),SCOAK,ALL       A/C IN MAINTENANCE
0004028  4299          1957         PRIORITY   22,BUFFER          PROCESS UNLINKED XACTS
0004029  4300          1958         UNLINK     MH$CHA(9,PB5),SCOAL,ALL,BV$NICR     REPAIRS IN WORK
0004030  4301                   *                                              (NOT IN-CYCLE REPAIRS)
0004031  4302          1959         UNLINK     MH$CHA(12,PB5),SCOAM,ALL      REPAIRS AWM
0004032  4303          1960         UNLINK     MH$CHA(8,PB5),SCOAN,ALL       A/C AWAITING LINE
0004033  4304                   *                                                   INSPECTION OR ORDNANCE LOAD
0004034  4305          1961         BUFFER                        PROCESS UNLINKED XACS
0004035  4306          1962         TRANSFER   ,SCOAU
0004036  4307          1963   SCOAI TEST NE    PH35,LINU,LINU     DID XACT NOT COME FROM BLOCK LINU
0004037  4308          1964         ENTER      PH21               EVENT STORAGE
0004038  4309          1965         TRANSFER   ,LINK
0004039  4310          1966   SCOAK TRANSFER   SBR,JPDAA,16PH     UPDATE SCIK STATISTICS
0004040  4311          1967         LINK       PH26,24P4          A/C IN MAINTENANCE
0004041  4312          1968   SCOAL TRANSFER   SBR,USPAA,11PH     RELEASE MANPOWER
0004042  4313          1969         TEST NE    PB32,1,SCOAP       NOT IN ADMINISTRATIVE DELAY STATE
0004043  4314          1970         ASSIGN     99+,MP12PF,P4      CUMULATIVE EMT THIS REPAIR
0004044  4315          1971         ASSIGN     14-,V$EMTU,P4      REMAINING EMT THIS REPAIR
0004045  4316          1972         ASSIGN     99-,MP12PF,P4      REMAINING EMT THIS TASK
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   GPSS/H  V4/370 RELEASE 1.3 (AV142)       10 DEC 92  10:49:34    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00040460  4257           1973   SCJAR ASSIGN     11,2,PH            REPAIR STATUS = AWM
00040470  4258           1974         ASSIGN     10,4,PB            AWM REASON = OFF-SHIFT
00040480  4259           1975         ASSIGN     31,PH33,PH         NEW EDC
00040490  4260           1976         TRANSFER   SBR,CHDSA,33PH     UPDATE DISCREPANCY STATUS
00040500  4261           1977         ALTER      PH2,1,14PH,PH14,3PF,PF3 REMAINING EMT THIS DISCREPANCY
00040510  4262           1978         LINK       PH9,14PH           REPAIRS AWM
00040520  4263           1979   SCJAP ASSIGN     46-,MP13PF,PH      REMAINING ADMINISTRATIVE DELAY
00040530  4264           1980         TRANSFER   ,SCJAR
00040540  4265           1981   SCJAM ASSIGN     15-10,4,PB         NEW AWM REASON = OFF-SHIFT
00040550  4266           1982         TEST NE    PB31,0,SCJAS       IS REPAIR IN MANPOWER QUEUE
00040560  4267           1983         DEPART     PH42               DEPART MANPOWER QUEUE
00040570  4268           1984         ASSIGN     31,0,PB            RESET QUEUE FLAG
00040580  4269           1985   SCJAS TEST NE    PB33,0,SCJAT       IS REPAIR IN AWM QUEUE
00040590  4270           1986         DEPART     MH$QUE(12,PB5)     DEPART AWM QUEUE
00040600  4271           1987         ASSIGN     30,0,PB            RESET QUEUE FLAG
00040610  4272           1988   SCJAT LINK       PH9,14PH           REPAIRS AWM
00040620  4273           1989   SCJAW TEST NE    PH35,LINU,SCJAU    IS A/C IN EVENT STORAGE
00040630  4274           1990         LEAVE      PH21               EVENT STORAGE
00040640  4275           1991         DEPART     PH42               MANPOWER QUEUE
00040650  4276           1992   SCJAU LINK       MH$CHA(8,PB5),22PB      A/C AWAITING LINE INSPECTION
00040660  4277                      *                                   OR ORDNANCE LOAD
00040670  4278                      *
00040680  4279                      *
00040690  4280                      *
00040700  4281                      ***** PAGE SCI - INTERMEDIATE MAINTENANCE SHIFT CONTROL ROUTINE *****
00040710  4282           1993   SCIAA GENERATE   ,,1,1,35,6PB,9PH,1PF    INTERMEDIATE MANPOWER CONTROL
00040720  4283                      *                                   XACT
00040730  4284           1994         ASSIGN     3,9,PB             XACT I.D. = INT. SHIFT CONTROL
00040740  4285           1995   SCIAB SAVEVALUE  OPROW,7,XH         ROW NR. - MH$OPS
00040750  4286           1996         SAVEVALUE  ADMH,OPS,XH        MH INDEX - OPS
00040760  4287           1997         SAVEVALUE  ADROW,7,XH         ROW NUMBER - MH$OPS
00040770  4288           1998         TRANSFER   SBR,ADVCA,6PH      DETERMINE NEXT STARTING TIME
00040780  4289           1999         ASSIGN     9,XH$ADCOL,PH      COLUMN NUMBER - MH$OPS
00040790  4290           2000         ADVANCE    XH$ADVNC           FIRST SHIFT START TIME
00040800  4291           2001         ASSIGN     2,MH$OPS(6,PH9),PB      NUMBER OF SHIFTS
00040810  4292           2002         MARK       1PF                FIRST SHIFT START TIME
00040820  4293           2003         TEST GE    PF1,XF$IFINC,DBG27      IS THERE NO CONFLICT WITH
00040830  4294                      *                                   PREVIOUS SCHEDULE
00040840  4295           2004         SAVEVALUE  IFINC,C1,XF        CURRENT CLOCK
00040850  4296           2005         SPLIT      1,SCIAC            FIRST SHIFT CONTROL XACT
00040860  4297           2006         PRIORITY   0,BUFFER           PROCESS ALL OTHER XACTS
00040870  4298           2007         PRIORITY   35                 RESTORE PRIORITY
00040880  4299           2008         TRANSFER   ,SCIAW
00040890  4300           2009   SCIAC GATE LR    SCI1               LET 1 XACT IN
00040900  4301           2010         LOGIC S    SCI1               CLOSE THE GATE
00040910  4302           2011         TEST G     PH2,1,SCIAL        IS THERE MORE THAN 1 SHIFT
00040920  4303           2012         SPLIT      V$SCISP,SCIAU,1PB  ADDITIONAL SHIFT CONTROL XACTS
00040930  4304           2013   SCIAU ASSIGN     5,MH$OPS(V$SCIRW,PH9),PH      SHIFT DURATION
00040940  4305           2014         SAVEVALUE  IFINC+,PH5,XF      END TIME OF LAST SHIFT
00040950  4306           2015         TEST E     PH1,1,SCIAE        IS THIS THE FIRST SHIFT
00040960  4307           2015   SCIAF UNLINK     IMAWM,SCIAG,ALL    IMA MAINT. ACTIONS AWM
00040970  4308           2017         SAVEVALUE  ISHFT+,1,XH        CURRENT SHIFT NUMBER
00040980  4309           2018         SAVEVALUE  IFINC,C1,XF        CURRENT CLOCK
00040990  4310           2019         SAVEVALUE  IFINC+,PH5,XF      END TIME OF CURRENT SHIFT
00041000  4311           2020         ADVANCE    PH5                SHIFT DURATION
00041010  4312           2021         UNLINK     IREPR,SCIAI,ALL    IMA MAINT. ACTIONS IN REPAIR
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   GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:30     FILE: A7ENCUPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00001020  4313          2022          UNLINK     INCHK,SCIAJ,ALL   INA MAINT. ACTIONS IN CHECKOUT
 00001030  4314          2023          TEST E     PB1,PB2,SCIAH     IS THIS THE LAST SHIFT
 00001040  4315          2024          SAVEVALUE  ISHFT,0,XB        RESET
 00001050  4316          2025          LOGIC R    SC11              OPEN THE GATE
 00001060  4317          2026          TERMINATE
 00001070  4318          2027  SCIAH   UNLINK     ISHFT,SCIAF,1     SHIFT CONTROL XACT
 00001080  4319          2028          TERMINATE
 00001090  4320          2029  SCIAE   LINK       ISHFT,FIFO        INT. MAINT. SHIFT CONTROL XACTS
 00001100  4321          2030  SCIAG   TRANSFER   ,PH43
 00001110  4322          2031  SCIAI   ASSIGN     43,INAAI,PH       BLOCK DESTINATION
 00001120  4323          2032          TRANSFER   ,SCIAK
 00001130  4324          2033  SCIAL   ASSIGN     1,1,PB            THIS IS THE ONLY SHIFT
 00001140  4325          2034          TRANSFER   ,SCIAD
 00001150  4326          2035  SCIAJ   ASSIGN     43,INAAJ,PH       BLOCK DESTINATION
 00001160  4327          2036  SCIAK   ASSIGN     13-,#P12PF,PF     REMAINING TTR
 00001170  4328          2037          LINK       INAWM,FIFO        INT. MAINT. ACTIONS AWM
 00001180  4329                  *
 00001190  4330                  *
 00001200  4331                  *
 00001210  4332                  ********************************************************************************
 00001220  4333                  * SUBROUTINES
 00001230  4334                  ********************************************************************************
 00001240  4335                  *
 00001250  4336                  ***** PAGE LIN - LINE INSPECTON/ORDNANCE LOAD SUBROUTINE *****
 00001260  4337          2038    LINA  ASSIGN     21,MH$QUE(FN$PTR02,PB5),PH    QUEUE/STORAGE INDEX -
 00001270  4338                  *                                              EVENT
 00001280  4339          2039          QUEUE      PH21              EVENT
 00001290  4340          2040          TEST NE    PB9,4,LINN        IS THIS NOT ORDNANCE LOAD
 00001300  4341          2041          ASSIGN     41,MH*PH25(FN$PTR03,1),PH     WORK CENTER I.D.
 00001310  4342          2042    LINP  SAVEVALUE  WKC,PH41,XH       WORK CENTER I.D.
 00001320  4343          2043          ASSIGN     42,MH$QUE(FN$PTR04,PB5),PH    QUEUE INDEX - WORK CTR.
 00001330  4344          2044          GATE LR    SC01              IS THERE NOT A SHIFT CHANGE
 00001340  4345          2045    LINU  TEST NE    XB$USHFT,0,LINS   IS THERE A CURRENT SHIFT
 00001350  4346          2046          TEST NE    PB9,4,LINH        IS THIS NOT ORDNANCE LOAD
 00001360  4347          2047          ASSIGN     17,MH*PH25(FN$PTR03,2),PH     MANPOWER REQUIRED
 00001370  4348          2048          ASSIGN     24,MH*PH25(FN$PTR03,3),PH     TIME REQUIRED
 00001380  4349          2049    LINI  ENTER      PH21              EVENT
 00001390  4350          2050    LINR  QUEUE      PH42              MANPOWER
 00001400  4351          2051    LIND  SAVEVALUE  WKC,PH41,XH       WORK CENTER I.D.
 00001410  4352          2052          ASSIGN     1,MH$STU(V$LIND1,PB5),PH      STORAGE INDEX - LINE
 00001420  4353                  *                                              WORK CENTER
 00001430  4354          2053          TEST GE    R*PH1,PH17,LINT   IS MANPOWER AVAILABLE
 00001440  4355          2054          DEPART     PH42              WORK CENTER QUEUE
 00001450  4356          2055          DEPART     PH21              EVENT QUEUE
 00001460  4357          2056          ENTER      PH1,PH17          OBTAIN MANPOWER
* 12/10/82  4358          2057          MARK       17PF              TIME LAST LINE INSPECTION BEGAN/
* 12/10/82  4359                  *                                  RESUMED
 00001470  4360          2058          SPLIT      1,LINJ,,#PB,24PH  TIME DELAY XACT
 00001480  4361          2059          LINK       LIND1,FIFO        A/C IN LINE INSPECTION/ORDNANCE LOAD
 00001490  4362          2060    LINN  SAVEVALUE  MTYP,PH16,XB       SCHEDULED MISSITON TYPE
 00001500  4363          2061          ASSIGN     8,MH*PH25(V$ORDL,1),PH  WORK CENTER I.D.
 00001510  4364          2062          TRANSFER   ,LINP
 00001520  4365          2063    LINJ  ADVANCE    PH24              PERFORM INSPECTION/ORDNANCE LOAD
 00001530  4366          2064          UNLINK     LIND1,LINL,1,#PB  A/C IN LINE INSPECTION/ORDNANCE LOAD
 00001540  4367          2065          TERMINATE
 00001550  4368          2066    LINL  LEAVE      PH1,PH17          RELEASE MANPOWER
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   GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:34    FILE: A7ENCUPS

   LINE#  STMT#  IF GO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00091560  4369          2057          LEAVE      PH21             EVENT STORAGE
00091570  4370          2058          SAVEVALUE  MEN,PH17,XH      MANPOWER UTILIZED
00091580  4371          2059          SAVEVALUE  EMT,PH24,XH      EMT
00091590  4372          2070          SAVEVALUE  DMMH,V$DMMH,XH   DIRECT MMH
00091600  4373          2071          SAVEVALUE  WKC,PH41,XH      WORK CENTER I.D.
00091610  4374          2072          TRANSFER   SBR,POSTA,16PM   POST WORK CENTER STATISTICS
00091620  4375          2073          TEST NE    XB$USHFT,0,LINM  IS THERE A CURRENT SHIFT
00091630  4376          2074          UNLINK     MH$CHA(8,PB5),LING,ALL  A/C AWAITING LINE INSPECTION
00091640  4377          2075          SAVEVALUE  LIND2,PB4,XB     TAIL NUMBER THIS A/C
00091650  4378          2076          SAVEVALUE  LIND1,PH41,XH    WORK CENTER I.D.
00091660  4379          2077          UNLINK     PH35,USKAK,ALL,8V$LIND1 MAINTENANCE ACTIONS AWM THIS
00091670  4380                      *                                 WORK CENTER
00091680  4381          2078   LINM   TRANSFER   PH,11,1
00091690  4382          2079   LINB   ASSIGN     22,MH*PH13(FN$PTR,1,1),PB    MAINTENANCE PRIORITY
00091700  4383          2080          LINK       MH$CHA(8,PB5),22PB     A/C AWAITING LINE INSPECTION
00091710  4384          2081   LINC   TEST L     PB9,4,LIND       IS THIS ORDNANCE LOAD
00091720  4385          2082          TEST GE    V$TTL,PH24,LINF  STILL TIME TO MAKE THE LAUNCH
00091730  4386          2083          TRANSFER   ,LIND
00091740  4387          2084   LINF   DEPART     PH21             EVENT QUEUE
00091750  4388          2085          DEPART     PH42             WORK CENTER QUEUE
00091760  4389          2086          LEAVE      PH21             EVENT STORAGE
00091770  4390          2087          TRANSFER   PH,11,1
00091780  4391          2088   LINH   SAVEVALUE  MTYP,PB16,XB     SCHEDULED MISSION TYPE
00091790  4392          2089          ASSIGN     17,MH*PH25(V$ORDL,2),PH      MANPOWER REQUIRED
00091800  4393          2090          ASSIGN     24,MH*PH25(V$ORDL,3),PH      TIME REQUIRED
00091810  4394          2091          TRANSFER   ,LINI
00091820  4395          2092   LINS   ASSIGN     35,LINU,PH       BLOCK DESTINATION - UNLINK
00091830  4396          2093          TRANSFER   ,LINB
00091840  4397          2094   LINT   ASSIGN     35,LINC,PH       BLOCK DESTINATION - UNLINK
00091850  4398          2095          TRANSFER   ,LINB
00091860  4399          2096   LING   TRANSFER   ,PH35
00091870  4400                      *
00091880  4401                      *
00091890  4402                      *
00091900  4403                      ***** PAGE D1S - DISCREPANCY GENERATION SUBROUTINE *****
00091910  4404                      *
00091920  4405                      *                  DISCREPANCY PARAMETERS
00091930  4406                      * PB3 = XACT IDENT.
00091940  4407                      *       4 = DISCREPANCY
00091950  4408                      * PB4-PB9 SAME AS FOR AIRCRAFT XACTS
00091960  4409                      * PB10 = CURRENT REPAIR STATUS
00091970  4410                      *       0 = DEFERRED (NOT YET RECEIVED)
00091980  4411                      *       1 = IN WORK
00091990  4412                      *       2 = AWM (REASON CODE 1-8)
00092000  4413                      *       3 = AWP
00092010  4414                      *       4 = AWAITING CANNIBALIZATION
00092020  4415                      * PB11 = NLM REPAIR STATUS
00092030  4416                      * PB12 = POST-MAINTENANCE TEST FLIGHT REQUIREMENT
00092040  4417                      *       0 = NO TEST FLIGHT REQUIRED
00092050  4418                      *       1 = TEST FLIGHT REQUIRED
00092060  4419                      * PB13 = REPAIR LOCATION REQUIREMENT (CYCLIC OPS ONLY)
00092070  4420                      *       1 = HANGAR DECK ONLY
00092080  4421                      *       2 = EITHER HANGAR OR FLIGHT DECK
00092090  4422                      * PB14 = REPAIR ANALYSIS INDICATOR
00092100  4423                      *       1 = REPAIR HAS BEEN ANALYZED
00092110  4424                      * PB15 = CURRENT AWM REASON CODE
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 GPSS/H  VM/370 RELEASE 1.0 (AY102)       16 DEC 82  10:46:04    FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00042120  4425                    *        0 = COMPUTER-GENERATED
 00042130  4426                    *        1 = GCE
 00042140  4427                    *        2 = SPACES/FACILITIES
 00042150  4428                    *        3 = BACKLOG
 00042160  4429                    *        4 = OFF-SHIFT HOURS
 00042170  4430                    *        5 = OTHER
 00042180  4431                    *        6 = AWAITING AIMD MAINTENANCE
 00042190  4432                    *        7 = OPERATIONAL PRIORITIES
 00042200  4433                    *        8 = AWAITING OTHER SHOPS OR MAINTENANCE ACTIONS
 00042210  4434                    * PB16 = NEW AWM REASON CODE
 00042220  4435                    * PB17-PB18 = NOT USED
 00042230  4436                    * PB19 & PB20 = WHEN DISCOVERED CODE
 00042240  4437                    *          2 = GROUND CREW INSPECTION
 00042250  4438                    *          3 = AIRCREW INSPECTION
 00042260  4439                    *          5 = IN FLIGHT
 00042270  4440                    *          6 = TURNAROUND INSPECTION
 00042280  4441                    *          8 = DAILY INSPECTION
 00042290  4442                    *          9 = CALENDAR INSPECTION
 00042300  4443                    *         12 = BAD PART FROM SUPPLY
 00042310  4444                    * PB21 = REPAIR COMPLETION CODE
 00042320  4445                    *          1 = SUCCESSFUL COMPLETION
 00042330  4446                    *          2 = BAD PART RECEIVED FROM SUPPLY
 00042340  4447                    *          3 = AWAITING SPARE
 00042350  4448                    *          4 = INSTALLED NKR WRA
 00042360  4449                    * PB22 = NO REPAIR REQUIRED INDICATOR (IF 1, NRR)
 00042370  4450                    * PB23 = SYSTEM/SUBSYSTEM MATRIX COLUMN - MAINTENANCE ACTION PROBABILITY
 00042380  4451                    *        BY WHEN DISCOVERED)
 00042390  4452                    * PB24 = ROW NUMBER - MX$SCIM_
 00042400  4453                    * PB25 = MAINTENANCE STARTED FLAG
 00042410  4454                    * PB26 = REMOVE AND REPLACE INDICATOR
 00042420  4455                    *
 00042430  4456                    * PH3 = MX INDEX - SYSTEM
 00042440  4457                    * PH4 = ROW NUMBER - SYSTEM MX
 00042450  4458                    * PH5 = GROUP INDEX - CURRENT DISCREPANCIES THIS SQUADRON
 00042460  4459                    * PH6 = CHAIN INDEX - CURRENT DISCREPANCIES THIS SQUADRON
 00042470  4460                    * PH7 = GROUP INDEX - A/C THIS SQUADRON
 00042480  4461                    * PH8 = CHAIN INDEX - REPAIRS IN WORK THIS SQUADRON
 00042490  4462                    * PH9 = CHAIN INDEX - REPAIRS AWM THIS SQUADRON
 00042500  4463                    * PH10 = CHAIN INDEX - REPAIRS AWP THIS SQUADRON
 00042510  4464                    * PH11 = BLOCK I.D. - SUBROUTINE TRANSFER
 00042520  4465                    * PH12 = MX INDEX - ORGANIZATIONAL WORK CENTER STATISTICS (MX$WKCO_)
 00042530  4466                    * PH13 = TOTAL TIME TO REPAIR
 00042540  4467                    * PH14 = REMAINING TIME TO REPAIR
 00042550  4468                    * PH15 = GROUP INDEX - REPAIRS THIS SQUADRON
 00042560  4469                    * PH16 = BLOCK I.D. -SUBROUTINE TRANSFER
 00042570  4470                    * PH17 = CHAIN INDEX - A/C IN MAINTENANCE
 00042580  4471                    * PH18 = CHAIN INDEX - DEFERRED REPAIRS THIS SQUADRON
 00042590  4472                    * PH19 = MM INDEX - SUBSYSTEM
 00042600  4473                    * PH20 = ROW NUMBER - SUBSYSTEM MM
 00042610  4474                    * PH21 = GROUP INDEX - A/C IN MAINTENANCE
 00042620  4475                    * PH23 = CHAIN INDEX - A/C NOT IN MAINTENANCE
 00042630  4476                    * PH24 = SYSTEM MX ROW NUMBER - FAILED SUBSYSTEM
 00042640  4477                    * PH25 = MM INDEX - FAILED SUBSYSTEM
 00042650  4478                    * PH26 = SUBSYSTEM MM ROW NUMBER - FAILED WRA
 00042660  4479                    * PH27 = CHAIN INDEX - UNRESOLVED DISCREPANCIES
 00042670  4480                    * PH28 = EOL WHEN RECEIVED
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GPSS/H  VM/370 RELEASE 1.0 (AV162)       10 DEC 92  10:40:04    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00042680  4451                 * PH29 = EOC IN WORK
00042690  4452                 * PH30 = CURRENT EOC
000427A0  4453                 * PH31 = NEW EOC
00042710  4454                 * PH32 = LINKING PARAMETER
00042720  4455                 * PH33 = BLOCK I.D. - SUBROUTINE TRANSFER
00042730  4456                 * PH34 = MX INDEX -SCIR EOC IMPACT SUMMARY (MX$SCIM_)
00042740  4457                 * PH35 = BLOCK I.D. - SUBROUTINE TRANSFER
00042750  4458                 *
00042760  4459                 * PF2 = TIME CREATED
00042770  4460                 * PF3 = JOB CONTROL NUMBER
00042780  4461                 * PF4 = A/C-SUBSYSTEM CODE
00042790  4462                 * PF5 = A/C-WRA CODE
000427B0  4463                 * PF6 = CASEE PART NUMBER THIS WRA
00042810  4464                 * PF7 = A/C-SUBSYSTEM CODE - FAILED WRA
00042820  4465                 * PF8 = A/C-WRA CODE - FAILED WRA
00042830  4466                 * PF9 = CASEE PART NUMBER - FAILED WRA
00042840  4467                 ************************************************************************
00042850  4468                 * PAGE DISA - DETERMINE WRAS ASSOCIATED WITH DISCREPANCIES
00042860  4469          2097   DISAA GATE LR     DISA1              LET 1 XACT IN
00042870  4470          2098         LOGIC S     DISA1              CLOSE THE GATE
00042880  4471          2099         SAVEVALUE   ACSER,PB4,XB       A/C SERIAL NUMBER
00042890  4472          2100         TEST E      PB3,1,DISAB        IS THIS AN AIRCRAFT XACT
000428A0  4473          2101         ASSIGN      26-29,0,PB         RESET
000428B0  4474          2102         ASSIGN      31,PB8,PB          CURRENT MISSION CAPABILITY
000428C0  4475          2103         TEST NE     MX$SYSUM(PB5,PB23),0,DISAJ    NONZERO MA PROBABILITY
000428D0  4476                 *                                              THIS EVENT
000428E0  4477          2104         TEST E      PB9,5,DISAC        IS A/C IN FLIGHT
000428F0  4478          2105         SAVEVALUE   ARG,V$LMBTF,XF     ARGUMENT OF FN$EXP
00042900  4479          2106   DISAF SAVEVALUE   PPROB,FN$EXP,XF    POISSON DISTRIBUTION VALUE
00042910  4480          2107         SAVEVALUE   RAN64,FN$RAN64,XF  6-DIGIT RANDOM NUMBER
00042920  4481          2108         TEST L      XF$RAN64,XF$PPROB,DISAD NO NEW DISCREPANCIES THIS
00042930  4482                 *                                          EVENT
00042940  4483          2109   DISAJ LOGIC R     DISA1              OPEN THE GATE
00042950  4484          2110         TRANSFER    PH,11,1
00042960  4485          2111   DISAB SAVEVALUE   SBSMH,PH19,XH     SUBSYSTEM MH INDEX
00042970  4486          2112         SAVEVALUE   WRANR,PH20,XH     WRA NUMBER
00042980  4487          2113         TRANSFER    ,DISBK
00042990  4488          2114   DISAC SAVEVALUE   ARG,V$LMBT,XF     ARGUMENT OF FN$EXP
000429A0  4489          2115         TRANSFER    ,DISAF
000429B0  4490          2116   DISAD SAVEVALUE   CPROB,XF$PPROB,XF CUMULATIVE DISTRIBUTION VALUE
000429C0  4491          2117   DISAH ASSIGN      29+,1,PB           DISCREPANCY COUNTER
000429D0  4492          2118         SAVEVALUE   PPROB,V$PPROB,XF  POISSON DISTRIBUTION VALUE
000429E0  4493          2119         TEST NE     XF$PPROB,0,DISAG   GREATER THAN PREVIOUS VALUE
000429F0  4494          2120         SAVEVALUE   CPROB+,XF$PPROB,XF      CUMULATIVE DISTRIBUTION VALUE
00042A00  4495          2121         TEST L      XF$RAN64,XF$CPROB,DISAH DISCREPANCY COUNT COMPLETED
00042A10  4496          2122   DISAL SAVEVALUE   EVCOL,PB23,XB      SUBSYSTEM MH COL. NUMBER THIS EVENT
00042A20  4497          2123         SAVEVALUE   CFRMX,V$CFRMX,XH   MX INDEX - CUMULATIVE MA RATES
00042A30  4498          2124         ASSIGN      7,PH26,P1          LOOPING PB
00042A40  4499          2125   DISAP SAVEVALUE   CMPAR,V$CMPAR,XF  7-DIGIT RANDOM NUMBER
00042A50  4500          2126         SAVEVALUE   CFROW,V$CFROW,XH  ROW NUMBER - CUM. MA MX
00042A60  4501          2127         TEST L      XF$CMPAR,MX*XH$CFRMX(XH$CFROW,1),DISAI    BELOW THE
00042A70  4502                 *                                                        BREAKPOINT
00042A80  4503          2128         SAVEVALUE   CFCOL,2,XB         COLUMN NR. - CUM. F.R. MX
00042A90  4504          2129   DISAM SAVEVALUE   WRAID,MX*XH$CFRMX(XH$CFROW,XB$CFCOL),XF   WRA ID
00042AA0  4505          2130         ASSIGN      19,V$WRAMH,PH      MH INDEX - SUBSYSTEM
00042AB0  4506          2131         ASSIGN      20,V$WRANO,PH      WRA NUMBER - SUBSYSTEM MH
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   GPSS/H  V4/37  RELEASE 1.0 (AV142)        15 DEC 92  10:40:04     FILE: A7ENCUPS

   LINE#  STMT#  IF  DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00003240  4537            2132          ASSIGN     4,V$SYSR),PH       RUN NUMBER - SYSTEM MX
 00003250  4538            2133          SAVEVALUE  SBSMH,PH19,XH      MH INDEX - SUBSYSTEM
 00003260  4539            2134          SAVEVALUE  WRANK,PH20,XH      WRA NUMBER
 00003270  4540            2135          TEST NE    MX*PH3(PH4,11),0,DISAN  IS SUBSYSTEM SUBJECT TO
 00003280  4541                          *                              MISDIAGNOSIS
 00003290  4542            2136          SCAN       PH27,4PF,V$SBSCD,,,DISAD      DOES THIS SUBSYTEM
 00003300  4543                          *                              ALREADY HAVE A DISCREPANCY
 00003310  4544            2137          TRANSFER   ,DISAP
 00003320  4545            2138  DISAN   SCAN       PH27,4PF,V$WRACD,,,DISAD      DOES THIS WRA
 00003330  4546                          *                              ALREADY HAVE A DISCREPANCY
 00003340  4547            2139          TRANSFER   ,DISAP
 00003350  4548            2140  DISAG   ASSIGN     29-,1,PB           DECREMENT DISCREPANCY COUNTER
 00003360  4549            2141          TRANSFER   ,DISAL
 00003370  4550            2142  DISAI   SAVEVALUE  CFCOL,3,AB         COLUMN NR. = CUM. F.R. MX
 00003380  4551            2143          TRANSFER   ,DISAM
 00003390  4552            2144  DISAD   SPLIT      1,DISBA,,26PB,35PH,9PF  CREATE DISCREPANCY XACT
 00003400  4553            2145          GATE LS    DISA2              PROCESS DISCREPANCY XACT
 00003410  4554            2146          LOGIC R    DISA2              CLOSE THE GATE
 00003420  4555            2147          LOOP       7PB,DISAP          DO FOR ALL DISCREPANCIES THIS EVENT
 00003430  4556            2148          TRANSFER   SBR,DISCA,16PH     DETERMINE DISCREPANCY EFFECT
* 12/10/82  4557            2149          ASSIGN     1,,,PB             RESET IN-MAINTENANCE FLAG
 00003440  4558            2150          LOGIC R    DISAI              OPEN THE GATE
 00003450  4559            2151          TRANSFER   PH,11,1
 00003460  4560                          *
 00003470  4561                          *
 00003480  4562                          *
 00003490  4563                          * PAGE DISB - PROCESS DISCREPANCY XACT
 00003500  4564            2152  DISBA   ASSIGN     3,4,PB             XACT IDENT = DISCREPANCY
 00003510  4565            2153          PRIORITY   40                 XACT PRIORITY
 00003520  4566            2154          MSAVEVALUE PH19+,PH20,47,1,MH      TOTAL DISCREPANCIES THIS WRA
 00003530  4567            2155          MSAVEVALUE PH3+,PH4,27,1,MA   TOTAL DISCREPANCIES THIS SUBSYSTEM
 00003540  4568            2156          MSAVEVALUE SYSU4+,PH5,27,1,MX      TOTAL DISCREPANCIES THIS
 00003550  4569                          *                              SQUADRON
 00003560  4570            2157          ASSIGN     19-25,0,PB         CLEAR THESE PARAMETERS
 00003570  4571            2158          ASSIGN     19-23,PB9,PB       WHEN DISCOVERED CODE
 00003580  4572            2159  DISBR   ASSIGN     13-14,0,PH         CLEAR THESE PARAMETERS
 00003590  4573            2160          MARK       2PF                TIME DISCREPANCY CREATED
 00003600  4574            2161          SAVEVALUE  JCN+,1,XF          JOB CONTROL NUMBER
 00003610  4575            2162          ASSIGN     3,XF$JCN,PF        JOB CONTROL NUMBER
 00003620  4576            2163          ASSIGN     7,MH$GRP(7,P85),PH      SQUADRON GROUP INDEX
 00003630  4577            2164          SAVEVALUE  SBSMH,PH19,XH      SUBSYSTEM MH INDEX
 00003640  4578            2165          SAVEVALUE  WRANR,PH20,XH      RUN NUMBER - SUBSYTEM MH
 00003650  4579            2166          ASSIGN     4,V$SBSCD,PF       A/C-SUBSYSTEM CODE
 00003660  4580            2167          ASSIGN     5,V$WRACD,PF       A/C-WRA CODE
 00003670  4581            2168          ASSIGN     6,V$PART,PF        CASEE PART NUMBER
 00003680  4582            2169          ASSIGN     5,MH$GRP(1,P85),PH      GROUP INDEX - CURRENT
 00003690  4583                          *                              DISCREPANCIES THIS SQUADRON
 00003700  4584            2170          ASSIGN     6,MH$CHA(1,P85),PH      CHAIN INDEX - CURRENT
 00003710  4585                          *                              DISCREPANCIES THIS SQUADRON
 00003720  4586            2171          ASSIGN     8,MH$CHA(9,P85),PH      CHAIN INDEX - REPAIRS IN WORK
 00003730  4587            2172          ASSIGN     9,MH$CHA(12,P85),PH     CHAIN INDEX - REPAIRS AWM
 00003740  4588            2173          ASSIGN     10,MH$CHA(13,P85),PH    CHAIN INDEX - REPAIRS AWP
 00003750  4589            2174          ASSIGN     15,MH$GRP(3,P85),PH     GROUP INDEX - REPAIRS THIS
 00003760  4590                          *                              SQUADRON
 00003770  4591            2175          ASSIGN     17,MH$CHA(2,P85),PH     CHAIN INDEX - A/C IN
 00003780  4592                          *                              MAINTENANCE
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GPSS/H  VM/370  RELEASE 1.0 (AY142)      15 DEC 82  101403.04    FILE: A7ENCUPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0000379C   4593          2175          ASSIGN     21,MH$GRP(2,PB5),PH     GROUP INDEX - A/C IN
0000380C   4594                *                                           MAINTENANCE
0000381C   4595          2177          ASSIGN     23,MH$CHA(6,PB5),PH     CHAIN INDEX - A/C NOT IN
0000382C   4596                *                                           MAINTENANCE
0000383C   4597          2178          ASSIGN     14,MH$CH4(11,PB5),PH    CHAIN INDEX - DEFERRED REPAIRS
0000384C   4598          2179          ASSIGN     27,MH$CHA(13,PB5),PH    CHAIN INDEX - UNRESOLVED
0000385C   4599                *                                           DISCREPANCIES
0000386C   4600          2180          ASSIGN     34,MH$TYPE(3,PB6),PH    MX INDEX - MX$SCIM_
0000387C   4601          2181          ASSIGN     28-31,,,PH              CLEAR THESE PH'S
0000388C   4602          2182          TRANSFER   SBR,DISDA,16PH          DETERMINE ACTUALLY FAILED MRA
0000389C   4603          2183          TEST NE    PB3,6,DISBF             NOT A CANNIBALIZED DISCREPANCY
0000390C   4604          2184          TEST NE    MH*PH19(PH20,33),0,DISBB      DOES THIS MRA HAVE A
0000391C   4605                *                                                 SUBSYSTEM EOC
0000392C   4606          2185          SAVEVALUE  RAN4,RN4,XH             3-DIGIT RANDOM NUMBER
0000393C   4607          2186          SAVEVALUE  CPRJB,MH*PH19(PH20,V$DISA1),XH      PROBABILITY OF
0000394C   4608                *                                                       HAVING SUBSYSTEM
0000395C   4609                *                                                       WHEN-RECEIVED EOC
0000396C   4610          2187          TEST L     XH$RAN4,XH$CPRJB,DISBC  DOES DISCREPANCY HAVE
0000397C   4611                *                                           SUBSYSTEM EOC WHEN RECEIVED
0000398C   4612          2188          ASSIGN     28,MH*PH.9(PH20,33),PH  SUBSYSTEM WHEN-RECEIVED EOC
0000399C   4613          2189          MSAVEVALUE PH19*,PH20,8,,1,MH      MAINT. ACTIONS THIS MRA WITH
0000400C   4614                *                                           SUBSYSTEM WHEN-RECEIVED EOC
0000401C   4615          2190          MSAVEVALUE PH3*,PH4,60,1,MX   NUMBER OF MAINT. ACTIONS THIS
0000402C   4616                *                                     SUBSYSTEM WITH SUBSYSTEM WHEN-
0000403C   4617                *                                     RECEIVED EOC
0000404C   4618          2191          MSAVEVALUE SYSUM*,PB5,60,1,MX      NUMBER OF MAINT. ACTIONS THIS
0000405C   4619                *                                           SQUADRON WITH SUBSYSTEM WHEN-
0000406C   4620                *                                           RECEIVED EOC
0000407C   4621          2192          SAVEVALUE  SREOC,PH28,XH      WHEN-RECEIVED EOC
0000408C   4622          2193          TRANSFER   SBR,SRUNA,35PH     DETERMINE ROW NUMBER - MX$SCIM_
0000409C   4623          2194   DISBE  ASSIGN     30,PH28,PH              CURRENT EOC
0000410C   4624          2195          SAVEVALUE  RAN4,RN4,XH             3-DIGIT RANDOM NUMBER
0000411C   4625          2196          TEST L     XH$RAN4,MH*PH19(PH20,V$DISA3),DISBD DOES DISCREPANCY
0000412C   4626                *                                                       HAVE ALTERNATE
0000413C   4627                *                                                       IN-WORK EOC
0000414C   4628          2197          ASSIGN     29,MH*PH19(PH20,V$DISA4),PH   ALTERNATE IN-WORK EOC
0000415C   4629          2198          TEST G     PH29,PH24,UBG47
0000416C   4630          2199   DISBB  JOIN       PH5                     DISCREPANCIES THIS SQUADRON
0000417C   4631          2200          TEST NE    PB3,6,DISBH             NOT A CANNIBALIZED DISCREPANCY
0000418C   4632          2201          TRANSFER   SBR,INCDA,33PH          INCREMENT DISCREPANCY COUNT THIS A/C
0000419C   4633          2202          LOGIC S    DISA2                   LET A/C ACT MOVE
0000420C   4634          2203          ASSIGN     32,V$LINK1,PH           LINK IN ORDER OF INCREASING EOC
0000421C   4635          2204          LINK       NUDSC,32PH              NEWLY CREATED DISCREPANCIES
0000422C   4636          2205   DISBC  SAVEVALUE  CPRJ3*,MH*PH19(PH20,V$DISA2),XH      ADD PROBABILITY OF
0000423C   4637                *                                                       ADD WHEN-RECEIVED
0000424C   4638                *                                                       EOC
0000425C   4639          2206          TEST L     XH$RAN4,XH$CPRJB,DISBB  DOES DISCREPANCY HAVE ADD
0000426C   4640                *                                           WHEN-RECEIVED EOC
0000427C   4641          2207   DISBG  ASSIGN     28,1,,PH                ADD WHEN-RECEIVED EOC
0000428C   4642          2208          MSAVEVALUE PH19*,PH20,61,1,MH      MAINT. ACTIONS THIS MRA WITH
0000429C   4643                *                                           ADD WHEN-RECEIVED EOC
0000430C   4644          2209          MSAVEVALUE PH3*,PH4,61,1,MX   NUMBER OF MAINT. ACTIONS THIS
0000431C   4645                *                                     SUBSYSTEM WITH ADD WHEN-RECEIVED EOC
0000432C   4646          2210          MSAVEVALUE SYSUM*,PB5,61,1,MX      NUMBER OF MAINT. ACTIONS THIS
0000433C   4647                *                                           SQUADRON WITH ADD WHEN-
0000434C   4648                *                                           RECEIVED EOC
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   GPSS/H  V4/37C RELEASE 1.0 (AY162)       1C DEC 82  10:40:3A    FILE: A7ENCUPS

   LINE#  STMT#  IF UJ  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 0C004350  4649          2211          TRANSFER   ,DISBE
 00004360  4650          2212   DISBC  ASSIGN     29,MH*PH19(PH20,33),PH  SUBSYSTEM IN-WORK EOC
 00004370  4651          2213          TRANSFER   ,DISBH
 00004380  4652          2214   DISBF  TEST NE    MH*PH19(PH20,33),0,D4649      DOES THIS WRA HAVE A
 00004390  4653                 *                                               SUBSYSTEM EOC
*12/10/82  4654          2215          ASSIGN     26,1,PB            REMOVE AND REPLACE INDICATOR
 00004400  4655          2215          TRANSFER   ,DISBG
 00004410  4656          2217   DISBH  ASSIGN     10-11,2,PB         STATUS = AWM
 00004420  4657          2218          ASSIGN     15-16,3,PB         AWM REASON = BACKLOG
 00004430  4658          2219          TRANSFER   SBR,INCDA,33PH     INCREMENT DISCREPANCY COUNT THIS A/C
 00004440  4659          2220          LOGIC R    DISA1              OPEN THE GATE
 00004450  4660          2221          TRANSFER   PH,11,1
 00004460  4661                 *
 00004470  4662                 *
 00004480  4663                 *
 00004490  4664                 * SUBROUTINE DISC - DETERMINE DISCREPANCY EFFECT ON MISSION CAPABILTY
 00004500  4665          2222   DISCA  ASSIGN     31,P39,P4          CURRENT MISSION CAPABILITY
 00004510  4666          2223          UNLINK     NUDSC,DISCB,1      NEW DISCREPANCY WITH WORST EOC
 00004520  4667          2224          UNLINK     NUDSC,DISCC,ALL    OTHER NEW DISCREPANCIES
 00004530  4668          2225          PRIORITY   35,BUFFER          PROCESS UNLINKED XACTS
 00004540  4669          2226          PRIORITY   90                 NORMAL A/C XACT PRIORITY
 00004550  4670          2227          TEST G     XB$MCOD1,P88,DISCE      IS MISSION CAPABILITY
 00004560  4671                 *                                           (FURTHER) DEGRADED
 00004570  4672          2228          ASSIGN     31,X$$MCOD1,P8     NEW MISSION CAPABILITY CODE
 00004580  4673          2229   DISCE  TRANSFER   PH,16,1
 00004590  4674          2230   DISCB  SAVEVALUE  MCOD1,V$CMCOD,XB  EOC MISSION CODE
 00004600  4675          2231   DISCC  TEST L     PB9,5,DISCF        IS A/C IN FLIGHT
 00004610  4676          2232          TEST F     V$CMCOD,26,DISCD   IS THIS A NMC DISCREPANCY
 00004620  4677          2233          TEST L     RN5,MH*PH19(PH2),11),DISCD     DID AIR ABORT OCCUR
 00004630  4678          2234          ALTER      PH7,1,27PB,1,4PB,PB4      SET A/C ABORT FLAG
 00004640  4679          2235   DISCD  LINK       PH6,14PH           DISCREPANCIES THIS SQUADRUN
 00004650  4680          2236   DISCF  TRANSFER   SBR,RANA,11PH      CREATE REPAIR XACT
 00004660  4681          2237          LINK       PH6,14PH           DISCREPANCIES THIS SQUADRUN
 00004670  4682                 *
 00004680  4683                 *
 00004690  4684                 *
 00004700  4685                 * PAGE DISD - DETERMINE FAILED WRA
 00004710  4686          2238   DISDA  TEST NE    PB3,5,DISDB        IS THIS NOT A CANNIBALIZATION
 00004720  4687                 *                                     DISCREPANCY
 00004730  4688          2239          TEST L     RN6,MH*PH19(PH2?,24),DISDB     IS THIS A REMOVE
 00004740  4689                 *                                               AND REPLACE DISCREPANCY
 00004750  4690          2240          ASSIGN     25,1,PB             REMOVE AND REPLACE INDICATOR
 00004760  4691          2241          TEST NE    MA*PH3(P14,11),0,DISDB  IS THIS SUBSYSTEM SUBJECT TO
 00004770  4692                 *                                           MISDIAGNOSIS
 00004780  4693          2242          TEST NE    MH*PH19(PH2?,26),0,DISDB       DOES WRA HAVE NONZERO
 00004790  4694                 *                                               WRA PROBABILITY
 00004800  4695          2243          SAVEVALUE  RAN4,RN4,XH        3-DIGIT RANDOM NUMBER
 00004810  4696          2244          TEST L     XH$RAN4,MH*P419(PH2?,29),DISDB      IS THIS A FALSE
 00004820  4697                 *                                               ALARM
 00004830  4698          2245          SAVEVALUE  TOTER,MA*PH3(PH4,PH23),XH      SUBSYSTEM DISCREPANCY
 00004840  4699                 *                                               PROBABILITY
 00004850  4700          2246   DISDC  ASSIGN     2,MA*PH3(PH4,3),PH      LOOPING PARM. = NUMBER OF WRAS
 00004860  4701          2247          TEST NE    PH2,1,DISDC        IS THERE MORE THAN 1 WRA
 00004870  4702          2248          SAVEVALUE  CPROD,0,AF         RESET
 00004880  4703          2249          SAVEVALUE  RAN4,0,XH          RESET
 00004890  4704          2250          SAVEVALUE  RAN59,FN,RAN59,XH  5-DIGIT RANDOM NUMBER
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   GPSS/H  V4/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:34    FILE: A7ENCUPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00044900  4705           2251   DISDC SAVEVALUE  HRANR+,1,XH       HRA NUMBER
00044910  4706           2252         SAVEVALUE  PR38,MH*PH19(XH$HRANR,PB23),XH      HRA DISCREPANCY
00044920  4707                *                                    PROBABILITY
00044930  4708           2253         TEST NE    XH$PRDB,0,DISDD  DOES HRA HAVE NONZERO DISCREPANCY
00044940  4709                *                                    PROBABILITY
00044950  4710           2254         SAVEVALUE  CPR38+,V$NPRDB,XF CUMULATIVE MAINT. ACTION PROBABILITY
00044960  4711           2255         TEST G     XF$RAN64,XF$CPRDB,DISDF IS THIS NOT THE FAILED HRA
00044970  4712           2256   DISDD LOOP       2PH,DISDC        DO FOR ALL HRAS
00044980  4713           2257         TRANSFER   ,DISDL
00044990  4714           2258   DISDF TEST NE    XH$HRANR,PH20,DISDB     IS THIS NOT THE SAME HRA
00045000  4715           2259         ASSIGN     22,1,PB          SET NRP INDICATOR
00045010  4716           2260         ASSIGN     26,XH$HRANR,PH   SUBSYSTEM MM ROW NR. - FAILED HRA
00045020  4717           2261         TRANSFER   ,DISDG
00045030  4718           2262   DISDB ASSIGN     26,PH20,PH       SUBSYSTEM MM ROW NR. - FAILED HRA
00045040  4719           2263   DISDG ASSIGN     25,PH19,PH       MM INDEX - FAILED SUBSYSTEM
00045050  4720           2264         ASSIGN     24,PH4,PH        SYSTEM MM ROW - FAILED SUBSYSTEM
00045060  4721           2265         SAVEVALUE  SHSMH,PH25,XH    MM INDEX - FAILED SUBSYSTEM
00045070  4722           2266         SAVEVALUE  HRANR,PH26,XH    HRA NUMBER - FAILED HRA
00045080  4723           2267         ASSIGN     7,V$SBSCD,PF     A/C SUBSYSTEM CODE - FAILED
00045090  4724                *                                    SUBSYSTEM
00045100  4725           2268         ASSIGN     8,V$HRACD,PF     A/C-HRA CODE - FAILED HRA
00045110  4726           2269         ASSIGN     9,V$PART,PF      CASEE PART NUMBER - FAILED HRA
00045120  4727           2270         TRANSFER   PH,16,1
00045130  4728                *
00045140  4729                *
00045150  4730                *
00045160  4731                ***** PAGE INCD - INCREMENT A/C DISCREPANCY COUNT SUBROUTINE *****
00045170  4732           2271   INCDA SAVEVALUE  DMSTA,V$CMSTA,XH  CURRENT  MISSION/STATUS CODE
00045180  4733           2272         TEST E     BV$DMST1,1,DBG42  IS THIS A VALID CODE
00045190  4734           2273         SCAN       PH7,4PB,PB4,FN$ACPAR$PB,1PB   CURRENT VALUE OF A/C PB
00045200  4735                *                                    THIS DISCREPANCY STATUS
00045210  4736           2274         ASSIGN     1+,1,PB          INCREMENT VALUE
00045220  4737           2275         ALTER      PH7,1,FN$ACPAR$PB,PB1,4PB,PB4       A/C PB
00045230  4738           2276         SCAN       PH7,4PB,PB4,29PB,1PB     GET CURRENT DISCREPANCIES
00045240  4739                *                                    THIS A/C
00045250  4740           2277         ASSIGN     1+,1,PB                  INCREMENT DISCREPANCIES
00045260  4741           2278         ALTER      PH7,1,29PB,PB1,4PB,PB4   INCREMENT DISCREPANCIES
00045270  4742           2279         TRANSFER   PH,33,1
00045280  4743                *
00045290  4744                *
00045300  4745                *
00045310  4746                ***** PAGE DECD - DECREMENT A/C DISCREPANCY COUNT SUBROUTINE *****
00045320  4747           2280   DECDA SAVEVALUE  DMSTA,V$CMSTA,XH  CURRENT  MISSION/STATUS CODE
00045330  4748           2281         TEST E     BV$DMST1,1,DBG42  IS THIS A VALID CODE
00045340  4749           2282         SCAN       PH7,4PB,PB4,FN$ACPAR$PB,1PB   CURRENT VALUE OF A/C PB
00045350  4750                *                                    THIS DISCREPANCY STATUS
00045360  4751           2283         ASSIGN     1-,1,PB          DECREMENT VALUE
00045370  4752           2284         ALTER      PH7,1,FN$ACPAR$PB,PB1,4PB,PB4       A/C PB
00045380  4753           2285         SCAN       PH7,4PB,PB4,29PB,1PB     GET CURRENT DISCREPANCIES
00045390  4754                *                                    THIS A/C
00045400  4755           2286         ASSIGN     1-,1,PB                  DECREMENT DISCREPANCIES
00045410  4756           2287         ALTER      PH7,1,29PB,PB1,4PB,PB4   DECREMENT DISCREPANCIES
00045420  4757           2288         TRANSFER   PH,33,1
00045430  4758                *
00045440  4759                *
00045450  4760                *
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GPSS/H  V4/370 RELEASE 1.0 (AY142)      15 DEC 82  10:40:30    FILE: A7ENCOPS

 LINE#  STMT#  IF  DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00004960  4761                ***** PAGE SROW - MX$SCIM_ ROW DETERMINATION SUBROUTINE *****
00004970  4762          2289   SROWA TEST NE     XH$SREOC,MX*PH34(1,1),SROWB   NOT THE FIRST ROW
00004980  4763          2290         SAVEVALUE  LLIM,1,X8                     LOW LIMIT OF SEARCH
00004990  4764          2291         SAVEVALUE  HLIM,MH$TYPE(91,PB6),X8       HIGH LIMIT OF SEARCH
000049A0  4765          2292   SROWE SAVEVALUE  MID,V$MID,X8                  MIDPOINT OF SEARCH
000049B0  4766          2293         TEST E     XH$SREOC,MX*PH34(X8$MID,1),SROWC   IS THIS THE ROW
000049C0  4767          2294         ASSIGN     24,X8$MID,PB                  ROW NUMBER
000049D0  4768          2295         TRANSFER   PH,35,1
000049E0  4769          2296   SROWB ASSIGN     24,1,PB
000049F0  4770          2297         TRANSFER   PH,35,1
00004A00  4771          2298   SROWC TEST E     BV$INSRC,1,DBG17              WITHIN SEARCH LIMITS
00004A10  4772          2299         TEST L     XH$SREOC,MX*PH34(X8$MID,1),SROWD   BELOW MIDPOINT
00004A20  4773          2300         SAVEVALUE  HLIM,X8$MID,X8                NEW HIGH SEARCH LIMIT
00004A30  4774          2301         TRANSFER   ,SROWE
00004A40  4775          2302   SROWD SAVEVALUE  LLIM,X8$MID,X8                NEW LOW SEARCH LIMIT
00004A50  4776          2303         TRANSFER   ,SROWE
00004A60  4777                *
00004A70  4778                *
00004A80  4779                *
00004A90  4780                ***** PAGE RAN - REPAIR ANALYSIS SUBROUTINE *****
00004AA0  4781                *
00004AB0  4782                *                    ORGANIZATIONAL REPAIR PARAMETERS
00004AC0  4783                * PB3 = XACT IDENT.  5 = ORGANIZATIONAL REPAIR
00004AD0  4784                * PB4-PB16 - SAME AS FOR DISCREPANCY XACTS
00004AE0  4785                *       (EXCEPT PB9=12 = CANNIBALIZATION)
00004AF0  4786                * PB17 = MAINTENANCE ACTION TASK
00004B00  4787                *        1 = CHECK DISCREPANCY - NO REPAIR REQUIRED
00004B10  4788                *        3 = REPAIR IN PLACE
00004B20  4789                *       13 = REMOVE AND REPLACE - REMOVAL PHASE
00004B30  4790                *       14 = REMOVE AND REPLACE - INSTALL WRA RECEIVED FROM SUPPLY
00004B40  4791                *       15 = REMOVE AND REPLACE - INSTALL CANNIBALIZED WRA
00004B50  4792                *       16 = ATTEMPT TO CANNIBALIZE
00004B60  4793                *       17 = REMOVE FOR CANNIBALIZATION
00004B70  4794                *       18 = REPLACE AFTER CANNIBALIZATION
00004B80  4795                *       19 = TROUBLESHOOT
00004B90  4796                *       20 = SUPPLY ACTION
00004BA0  4797                * PB18 = SHIFT IDENT.
00004BB0  4798                * PB19-PB26 - SAME AS FOR DISCREPANCY XACTS
00004BC0  4799                * PB28 = BCM CODE
00004BD0  4800                * PB29 = TAIL NUMBER OF CANNIBALIZATION VICTIM A/C
00004BE0  4801                * PB30 = QUEUE FLAG - AWAITING MAINTENANCE
00004BF0  4802                * PB31 = QUEUE FLAG - MANPOWER, ORGANIZATIONAL
00004C00  4803                * PB32 = DELAY FLAG
00004C10  4804                * PB33 = PREVIOUS MAINTENANCE ACTION TASK
00004C20  4805                * PB34 = NUMBER OF ATTEMPTS TO CANNIBALIZE
00004C30  4806                * PB35-PB36 - NOT USED
00004C40  4807                * PB37 = NUMBER OF AMP DISCREPANCIES THIS A/C (USED IN PAGE CANB)
00004C50  4808                * PB38 = MANPOWER (X12) - ORGANIZATIONAL
00004C60  4809                *
00004C70  4810                * PH3-PH35 SAME AS FOR DISCREPANCY XACTS
00004C80  4811                * PH36-PH50 - NOT USED
00004C90  4812                * PH39 = STORAGE INDEX - ORGANIZATIONAL WORK CENTER, FIRST SHIFT
00004CA0  4813                * PH40 = STORAGE INDEX - ORGANIZATIONAL WORK CENTER, SECOND SHIFT
00004CB0  4814                * PH41 = GROUP INDEX - ORGANIZATIONAL WORK CENTER
00004CC0  4815                * PH42 = QUEUE INDEX - ORGANIZATIONAL WORK CENTER
00004CD0  4816                * PH43 = BLOCK I.D. - TRANSFER
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GPSS/H  VM/370 RELEASE 1.3 (AY192)       10 DEC 82  10:49:30.04    FILE: A7ENCOPS

LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00096020  4817                 * PH44 = STORAGE INDEX - ORGANIZATIONAL WORK CENTER USED
00096030  4818                 * PH45 = ORGANIZATIONAL WORK CENTER I.D.
00096040  4819                 * PH46 = REMAINING MAINTENANCE DELAY NOT INCLUDED IN EMT
00096050  4820                 * PH47 = TOTAL MAINTENANCE DELAY NOT INCLUDED IN EMT
00096060  4821                 * PH48 = CUMULATIVE EMT THIS REPAIR
00096070  4822                 * PH49 = REMAINING EMT THIS TASK
00096080  4823                 * PH50 = INTERMEDIATE WORK CENTER I.D.
00096090  4824                 *
00096100  4825                 * PF3-PF9 = SAME AS FOR DISCREPANCY XACTS
00096110  4826                 * PF10 = SPLIT BLOCK MATCH COUNT
00096120  4827                 * PF11 = MAINTENANCE START TIME
00096130  4828                 * PF12 = TASK START TIME
00096140  4829                 * PF13 = TIME NON-EMT MAINTENANCE DELAY BEGAN
00096150  4830                 * PF14 = TIME MANPOWER OBTAINED
00096160  4831                 ********************************************************************************
00096170  4832          2304    RANA   GATE LR     RAN1              LET 1 XACT IN
00096180  4833          2305           LOGIC S     RAN1              CLOSE THE GATE
00096190  4834          2306           SAVEVALUE   ETTRD,0,XH          RESET
00096200  4835          2307           ASSIGN      1,MH$GRP(7,PH5),PH    GROUP INDEX - SQUADRON
00096210  4836          2308           TEST E      BV$CYOPS,1,RANY   CYCLIC OPS
00096220  4837          2309           SCAN        PH1,4PB,PB4,35PB,2PB    PB2 = A/C REPAIR LOCATION
00096230  4838          2310           SAVEVALUE   RLU,PB2,XB        A/C REPAIR LOCATION INDICATOR
00096240  4839          2311    RANY   ASSIGN      2,MH$CHA(1,PB5),PH      CHAIN INDEX - DISCREPANCIES
00096250  4840                 *                                     THIS SQUADRON
00096260  4841          2312           UNLINK      PH2,RANB,ALL,4PB  DISCREPANCIES THIS A/C
00096270  4842          2313           ASSIGN      1,PR,PB           CURRENT PRIORITY
00096280  4843          2314           PRIORITY    35,BUFFER         WAIT UNTIL REPAIR ANALYSIS COMPLETED
00096290  4844          2315           PRIORITY    PB1               RESTORE PRIORITY
00096300  4845          2316           ALTER       PH1,1,24PH,XH$ETTRD,4PB,PB4   UPDATE A/C TTR
00096310  4846          2317           TEST E      BV$CYOPS,1,RANM   CYCLIC OPS
00096320  4847          2318           TEST NE     XB$RLU,PB2,RANM   REPAIR LOCATION INDICATOR CHANGED
00096330  4848          2319           ALTER       PH1,1,35PB,XB$RLU,4PB,PB4     UPDATE REPAIR LOCATION
00096340  4849          2320    RANM   LOGIC R     RAN1              OPEN THE GATE
00096350  4850          2321           TRANSFER    PH,11,1
00096360  4851          2322    RANB   TEST NE     PB3,14,RANJ       NOT A SCHEDULED MAINT. DISCREPANCY
00096370  4852          2323           TEST E      PB14,0,RANC       REPAIR NOT YET ANALYZED
00096380  4853          2324           SAVEVALUE   MTRCL,22,XB       SUBSYSTEM MH CDL - MTTR - ORG.
00096390  4854          2325           ASSIGN      13-14,V$TTR,PH    TTR THIS DISCREPANCY
00096400  4855          2326           TEST L      PH13,2,RANE       TTR LESS THAN 12 MINUTES
00096410  4856          2327           ASSIGN      13-14,2,PH        MAKE TTR = 12 MINUTES
00096420  4857          2328    RANE   TEST E      BV$CYOPS,1,RANG   CYCLIC OPS
00096430  4858          2329           TEST GE     RN5,MH*PH19(PH2),311),RANF     CAN REPAIR ONLY BE DONE
00096440  4859                 *                                     ON HANGAR DECK
00096450  4860          2330           ASSIGN      13,1,PB           REPAIR LOCATION = HANGAR DECK
00096460  4861          2331    RANG   ASSIGN      14,1,PB           REPAIR HAS BEEN ANALYZED
00096470  4862          2332           TEST NE     PB3,6,RA4S        IS THIS NOT A CANNIBALIZATION
00096480  4863                 *                                     DISCREPANCY
00096490  4864          2333           ASSIGN      11-11,0,PB        REPAIR STATUS = DEFERRED
00096500  4865          2334    RANS   SPLIT       1,RANH,,3*PB,5*PH,4PF   CREATE ORGANIZATIONAL REPAIR
00096510  4866                 *                                  OR CANNIBALIZATION ACTION XACT
00096520  4867          2335    RANC   TEST L      XH$.TTRD,PH14,RANI      COMPUTE MAX. REMAINING TTR
00096530  4868          2336           SAVEVALUE   LTTRD,PH14,XH           COMPUTE MAX. REMAINING TTR
00096540  4869          2337    RANI   TEST E      BV$CYOPS,1,RANJ   CYCLIC OPS
00096550  4870          2338           TEST NE     XB$RLU,1,RANJ     HAS PREVIOUS INDICATION THAT A/C
00096560  4871                 *                                     COULD BE REPAIRED EITHER ON FLIGHT
00096570  4872                 *                                     OR HANGAR DECK
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GPSS/H  VM/370 RELEASE 1.3 (AY142)      1 DEC 92  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00046560  4873          2339          TEST E     PB13,1,RANR      DOES THIS REPAIR REQUIRE HANGAR DECK
00046590  4874          2340          SAVEVALUE  RLO,1,XB         REPAIR LOCATION = HANGAR DECK
00046600  4875          2341   RANJ   LINK       PH6,14PH         CURRENT DISCREPANCIES
00046610  4876          2342   RANR   SAVEVALUE  RLO,2,XB         REPAIR CAN BE DN EITHER HANGAR OR
00046620  4877                 *                                  FLIGHT DECK
00046630  4878          2343          TRANSFER   ,RANJ
00046640  4879          2344   RANH   TEST NE    PB3,6,RANT       IS THIS NOT A CANNIBALIZATION
00046650  4880                 *
00046660  4881          2345          ASSIGN     3,5,PB           IDENT = REPAIR
00046670  4882          2346   RANU   MARK
00046680  4883          2347          ASSIGN     11,0,PF          CLEAR THIS PARAMETER
00046690  4884          2348          ASSIGN     38,V$MEN,PB      MANPOWER - ORG. PRIMARY
00046700  4885          2349          TEST L     RN6,MH*PH19(PH20,15),RANX     IS ALTERNATE WORK CENTER
00046710  4886                 *                                  BEING USED
00046720  4887          2350          ASSIGN     45,MH*PH19(PH20,16),PH  WORK CENTER I.D. - ALTERNATE
00046730  4888          2351   RANK   TEST NE    PB3,7,RANV       IS THIS NOT A CANNIBALIZATION ACTION
00046740  4889          2352          TEST NE    PB21,9,RANV      IS THIS NOT ANOTHER TRY AT REMOVING
00046750  4890                 *                                  THE ACTUALLY FAILED WRA
00046760  4891          2353          TEST E     PB26,1,RANL      IS THIS A REMOVE AND REPLACE ACTION
00046770  4892          2354   RANV   ASSIGN     50,MH*PH19(PH20,19),PH  WORK CTR. I.D. - INTERMEDIATE
00046780  4893          2355          TEST G     V$BCM,RN5,RANL   IS REPAIR BCM
00046790  4894          2356          TEST G     V$BCM18,RN6,RANU IS REPAIR BCM 1-8
00046800  4895          2357          ASSIGN     28,18,PB         BCM CODE 1-8
00046810  4896          2358   RANL   SAVEVALUE  WKCPH,39,XB      PH INDEX
00046820  4897          2359          SAVEVALUE  WKC,PH45,XH      WORK CENTER I.D. - ORGANIZATIONAL
00046830  4898          2360          TRANSFER   SBR,RAND,11PH
00046840  4899          2361          JOIN       PH15             REPAIRS THIS SQUADRON
00046850  4900          2362          ASSIGN     46,0,PH          CLEAR THIS PH
00046860  4901          2363          ASSIGN     48-49,0,PH       CLEAR THESE PARAMETERS
00046870  4902          2364          TEST NE    PB3,7,RANP       IS THIS NOT A CANNIBALIZATION ACTION
00046880  4903          2365          TEST NE    PB21,9,RANW      IS THIS NOT ANOTHER TRY AT REMOVING
00046890  4904                 *                                  THE ACTUALLY FAILED WRA
00046900  4905          2366          LINK       PH18,14PH        DEFERRED REPAIRS THIS SQUADRON
00046910  4906          2367   RANX   ASSIGN     45,MH*PH19(PH20,12),PH  WORK CENTER I.D. - ORG. PRI.
00046920  4907          2368          TRANSFER   ,RANK
00046930  4908          2369   RANT   ASSIGN     3,7,PB           IDENT = CANNIBALIZATION ACTION
00046940  4909          2370          TRANSFER   ,RANU
00046950  4910          2371   RANF   ASSIGN     13,2,PB          REPAIR CAN BE DONE ON FLIGHT DECK
00046960  4911          2372          TRANSFER   ,RANG
00046970  4912          2373   RAND   ASSIGN     2,FN$PTR05,PH    RD4 POINTER - 4X$WKCD_
00046980  4913          2374          ASSIGN     2,2,PB           LOOPING PARAMETER
00046990  4914          2375          INDEX      2PH,11           RD4 POINTER - 4M$STO
00047000  4915          2376   RANN   ASSIGN     XB$WKCPH,MH$STO(PH1,PB5),PH   STORAGE INDEX - ORG.
00047010  4916                 *                                  WORK CENTER
00047020  4917          2377          SAVEVALUE  WKCPH+,1,XB      PH INDEX
00047030  4918          2378          INDEX      2PH,25           RD4 POINTER - MH$STO
00047040  4919          2379          LOOP       2PB,RANN         DO FOR BOTH SHIFTS
00047050  4920          2380          INDEX      2PH,12           RD4 POINTER - 4M$GRP
00047060  4921          2381          ASSIGN     XB$WKCPH,MH$GRP(PH1,PB5),PH   GROUP INDEX - ORG. W.C.
00047070  4922          2382          SAVEVALUE  WKCPH+,1,XB      PH INDEX
00047080  4923          2383          INDEX      2PH,15           RD4 POINTER - 4M$QUE
00047090  4924          2384          ASSIGN     XB$WKCPH,MH$QUE(PH1,PB5),PH   QUEUE INDEX - ORG. W.C.
00047100  4925          2385          TRANSFER   PH,11,1
00047110  4926          2386   RANP   ASSIGN     17,17,PB         TASK = REMOVE FOR CANNIBALIZATION
00047120  4927          2387          LINK       PH9,LIFO         REPAIRS AWM
00047130  4928          2388   RANO   ASSIGN     28,0,PB          BCM CODE 9
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GPSS/H  VM/37x RELEASE 1.0 (AY102)      10 DEC 82  10:40:04    FILE: A7ENCUPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0004710  4928           2389          TRANSFER   ,RANL
0004715  4930           2390   RANN   ASSIGN     17,13,PB          TASK = REMOVE
0004716  4931           2391          LINK       PH9,LIFO          REPAIRS AHM
0004717  4932                        *
0004718  4933                        *
0004719  4934                        *
0004720  4935                        ***** PAGE MSDG - MISDIAGNOSIS SUBROUTINE *****
0004721  4936           2392   MSDGA  GATE LR    DIS1              IS SUBROUTINE 'DIS' IDLE
0004722  4937           2393          SAVEVALUE  ACSER,PH4,XB      A/C SERIAL NUMBER
0004723  4938           2394          SAVEVALUE  SBS#M,PH19,XH     SUBSYSTEM MM INDEX
0004724  4939           2395          SAVEVALUE  TUTFR,MX*PH3(PH4,PB23),XH     SUBSYSTEM MAINT. ACTION
0004725  4940                        *                                          RATE
0004726  4941           2396   MSDGH  SAVEVALUE  CPROB,0,XF        RESET
0004727  4942           2397          SAVEVALUE  RAN62,V$RAN62,XF  6-DIGIT RANDOM NUMBER
0004728  4943           2398          SAVEVALUE  WRANR,0,XH        RESET
0004729  4944           2399          ASSIGN     2,MX*PH3(PH4,3),PH     NUMBER OF WRAS THIS SUBSYSTEM
0004730  4945           2400   MSDGb  SAVEVALUE  WRANK+,1,XH       ROW NUMBER - SUBSYTEM MM
0004731  4946           2401          SAVEVALUE  PROB,MM*PH19(XH$WRANR,PB23),XH     DISCREPANCY PROB.
0004732  4947           2402          TEST NE    XH$PROB,0,MSDGC   IS DISCREPANCY PROBABILITY NONZERO
0004733  4948           2403          SAVEVALUE  CPROB+,V$NPROB,XF CUMULATIVE DISCREPANCY PROBABILITY
0004734  4949           2404          TEST G     XF$RAN62,XF$CPROB,MSDGG TRY THE NEXT WRA
0004735  4950           2405   MSDGC  LOOP       2PH,MSDGB         DO FOR ALL WRAS
0004736  4951           2406          TRANSFER   ,MSDGH
0004737  4952           2407   MSDGG  TEST NE    XH$WRANK,PH26,MSDGE     IS THIS NOT THE FAILED WRA
0004738  4953           2408          TEST NE    XH$WRANK,PH20,MSDGH     IS THIS WRA NOT THE ONE JUST
0004739  4954                        *                                    INSTALLED
0004740  4955           2409          UNLINK     PH27,MSDGD,1,5PF,V$WRACD,MSDGF     HAS THIS WRA
0004741  4956                        *                                    ALREADY BEEN REMOVED
0004742  4957           2410          PRIORITY   40,BUFFER         PROCESS UNLINKED XACT
0004743  4958           2411          TRANSFER   ,MSDGA
0004744  4959           2412   MSDGE  ASSIGN     20,PH26,PH        ROW NUMBER - FAILED WRA
0004745  4960           2413          SAVEVALUE  WRANK,PH26,XH     WRA NR. - FAILED WRA
0004746  4961           2414          ASSIGN     22,0,PB           RESET WRR FLAG
0004747  4962           2415   MSDG1  ASSIGN     5,V$WRACD,PF      A/C-WRA CODE - WRA TO BE REMOVED
0004748  4963           2416          ASSIGN     6,V$PART,PF       WUC TO BE TRIED
0004749  4964           2417          TRANSFER   PH,11,1
0004750  4965           2418   MSDGF  TEST L     RN2,MM*PH19(XH$WRANK,20),MSDGE     IS THIS ANOTHER
0004751  4966                        *                                             MISDIAGNOSIS
0004752  4967           2419          ASSIGN     21,XH$WRANR,PH    ROW NR. - WRA TO BE REMOVED
0004753  4968           2420          TRANSFER   ,MSDG1
0004754  4969           2421   MSDGD  LINK       PH27,FIFO         UNRESOLVED DISCREPANCIES
0004755  4970                        *
0004756  4971                        *
0004757  4972                        *
0004758  4973                        ***** PAGE TBL - SUBROUTINE TO CALCULATE INTERVAL BETWEEN LAUNCH EVENTS
0004759  4974           2422   TBLA   SAVEVALUE  ADVAL,MM*PH19(XH$ADR14,PH9),XH     TIME THIS LAUNCH
0004760  4975           2423          SAVEVALUE  LTM1,V$CVRT,XH    CONVERT TO CLOCK UNITS
0004761  4976           2424          SAVEVALUE  ADR14+,1,XH        NEXT LAUNCH EVENT NUMBER
0004762  4977           2425          SAVEVALUE  ADVAL,MM*PH19(XH$ADR14,PH9),XH     TIME THIS LAUNCH
0004763  4978           2426          SAVEVALUE  LTM2,V$CVRT,XH    CONVERT TO CLOCK UNITS
0004764  4979           2427          SAVEVALUE  TBL,V$TTNL,XH     TIME BETWEEN LAUNCHES
0004765  4980           2428          TRANSFER   PH,11,1
0004766  4981                        *
0004767  4982                        *
0004768  4983                        *
0004769  4984                        ***** PAGE CPB - REMAINING MISSION CAPABILITY SUBROUTINE *****
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   GPSS/H  VM/37  RELEASE 1.0 (AY142)       10 DEC 82  10:40:36    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 0004770  4955          2429    CPBA  SAVEVALUE  MCAP,0,X4         RESET
 0004771  4956          2430          SAVEVALUE  REMLA,0,XB        RESET
 0004772  4957          2431          ASSIGN     2,MH*PH1)(1,PH9),PH     LOOPING PARAM. - NUMBER OF
 0004773  4958                      *                                    LAUNCH EVENTS THIS DAY
 0004774  4959          2432          TEST L     PH8,PH2,CPBB      NOT THE LAST LAUNCH EVENT
 0004775  4960          2433          SAVEVALUE  REMLA,1,XB        AT LEAST ONE REMAINING LAUNCH EVENT
 0004776  4961          2434    CPBF  SAVEVALUE  ADVAL,MH*PH1)(V$LRD4,PH9),XH  LAUNCH TIME
 0004777  4962          2435          TEST GE    V$CP91,C1,CPBB    SUFFICIENT TIME TO MAKE THIS LAUNCH
 0004778  4963          2436          TEST NE    PH8,26,CPBB       IS A/C NOT NMC
 0004779  4964          2437          TEST GE    PB8,2,CPBD        IS A/C PMC
 0004780  4965          2438          ASSIGN     1,5,PB            LOOPING PARAM. - MISSION PRIORITY
 0004781  4966          2439    CPBE  SAVEVALUE  MTYP,MB*PH39(PH2,PB1),XB     MISSION TYPE
 0004782  4967          2440          TEST NE    X$MTYP,),CPBC     IS MISSION DEFINED
 0004783  4968          2441          TEST E     BV$AVALM,0,CPBD   CAN A/C NOT FLY THIS MISSION TYPE
 0004784  4969          2442          LOOP       1PB,CPBE          DO FOR ALL MISSIONS THIS LAUNCH
 0004785  5000                      *                                    EVENT
 0004786  5001          2443    CPBC  LOOP       2PH,CPBF          DO FOR ALL REMAINING LAUNCH EVENTS
 0004787  5002          2444    CPBB  TRANSFER   PH,33,1
 0004788  5003          2445    CPBD  SAVEVALUE  MCAP,1,XB         A/C CAN FLY AT LEAST 1 REMAINING
 0004789  5004                      *                                    MISSION TYPE
 0004790  5005          2446          TRANSFER   PH,33,1
 0004791  5006                      *
 0004792  5007                      *
 0004793  5008                      *
 0004794  5009                      ***** PAGE RSPF - HANGAR DECK TO FLIGHT DECK RESPOT SUBROUTINE *****
*12/10/82 5010          2447    RSPFA TEST L     PH18,MH$COMPL(17,PB5),RSPFB   IS COMPUTED RESPOT TIME
 0004796  5011          2448          TEST L     PH18,MH$COMPL(17,PB5),RSPFB   IS COMPUTED RESPOT TIME
 0004799  5012                      *                                    LESS THAN MINIMUM
 0004800  5013          2449    RSPFD ASSIGN     19,MH$COMPL(17,PB5),PH  MINIMUM RESPOT TIME
 0004801  5014          2450    RSPFB ASSIGN     34,4,PB           LOCATION = RESPOT
 0004802  5015          2451          ADVANCE    PH18              RESPOT
 0004803  5016          2452          ASSIGN     34,2,PB           A/C LOCATION = FLIGHT DECK
 0004804  5017          2453          LEAVE      MH$STD(41,PB5)    HANGAR DECK MAINTENANCE SPACE
 0004805  5018          2454          UNLINK     SPOT3,RSPFC,ALL,5PB     A/C AWAITING RESPOT
 0004806  5019          2455          TRANSFER   PH,11,1
 0004807  5020          2456    RSPFC TRANSFER   PH,11
 0004808  5021                      *
 0004809  5022                      *
 0004810  5023                      *
 0004811  5024                      ***** PAGE UPS - POST-MAINTENANCE A/C STATUS UPDATE SUBROUTINE *****
 0004812  5025          2457    UPSAA GATE LR    UPDA1             IS PAGE UPD SUBROUTINE IDLE
 0004813  5026          2458          GATE LR    UPSA1,UPSAD       IS THIS SUBROUTINE IDLE
 0004814  5027          2459          LOGIC S    UPSA1             CLOSE THE GATE
 0004815  5028          2460          UNLINK     PH17,UPSAB,1,4PB,,UBG19      A/C THIS REPAIR
 0004816  5029          2461          PRIORITY   25,BUFFER         PROCESS THIS SUBROUTINE
 0004817  5030          2462          LOGIC R    UPSA1             OPEN THE GATE
 0004818  5031          2463          TRANSFER   PH,15,1
 0004819  5032          2464    UPSAD GATE LR    UPSA1             WAIT FOR THIS SUBROUTINE TO BECOME
 0004820  5033                      *                                    IDLE
 0004821  5034          2465          TRANSFER   ,UPSAA
 0004822  5035          2466    UPSAB UNLINK     PH28,UPSAC,ALL,4PB      DISCREPANCIES THIS A/C
 0004823  5036          2467          TEST       H$UPSAB,PH29,UBG19      IS THIS THE CORRECT NUMBER OF
 0004824  5037                      *                                    DISCREPANCIES
 0004825  5038          2468          TEST NE    PH29,,UPSAD       IS THERE AT LEAST 1 DISCREPANCY
 0004826  5039          2469          SAVEVALUE  UPSA1,1,XB        SET TO DPC
 0004827  5040          2470          PRIORITY   30,BUFFER         PROCESS UNLINKED XACT
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   GPSS/H  VM/370 RELEASE 1.0 (AY142)       10 DEC 82  101408 A     FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00048280  5041          2471          PRIORITY   90                NORMAL A/C PRIORITY
00048290  5042          2472          ASSIGN     31,XB$UPSA1,PB    NEW MISSION CAPABILITY
00048300  5043          2473          TEST L     PB31,26,UPSAF     IS A/C (STILL) NMC
00048310  5044          2474          TEST NE    MH$COMPL(6,PB5),0,UPSAG IS CANNIBALIZATION PERMITTED
00048320  5045          2475          TEST L     BV$CANVQ,1,UPSAG  DOES THIS A/C QUALIFY AS A VICTIM
00048330  5046                        *                            A/C
00048340  5047          2476          SPLIT      1,CANBA           TO MAKE A/C AVAILABLE FOR
00048350  5048                        *                            CANNIBALIZATION
00048360  5049          2477  UPSAG   LINK       PH26,24PH         A/C IN MAINTENANCE
00048370  5050          2478  UPSAD   ASSIGN     31,1,PB           NEW STATUS = OPC
00048380  5051          2479          TRANSFER   ,UPSAF
00048390  5052          2480  UPSAC   TEST G     V$CMCOD,XB$UPSA1,UPSAE  WORSE MISSION CAPABILITY
00048400  5053          2481          SAVEVALUE  UPSA1,V$CMCOD,XB  UPDATE MISSION CAPABILITY
00048410  5054          2482  UPSAE   LINK       PH6,24PH          CURRENT DISCREPANCIES
00048420  5055          2483  UPSAF   TEST E     PB31,1,UPSAH      IS A/C NOW OPC
00048430  5056          2484          JOIN       MH$GRP(9,PB5)     OPC A/C
00048440  5057          2485  UPSAH   TEST E     PB9,26,UPSAI      WAS A/C NMC
00048450  5058          2486          TABULATE   MH$TAB(3,PB5)     NMC TIME DISTRIBUTION
00048460  5059          2487          ASSIGN     27,0,PB           RESET THIS PB
00048470  5060          2488  UPSAI   TRANSFER   SBR,CHMCA,16PM    UPDATE A/C MISSION CAPABILITY
00048480  5061          2489          TEST NE    V$UPSA1,0,UPSAJ   ANY DISCREPANCIES IN WORK
00048490  5062          2490          LINK       PH26,24PH         A/C IN MAINTENANCE
00048500  5063          2491  UPSAJ   TEST NE    V$UPSA2,0,UPSAK   ANY SCIR-RELATED DISCREPANCIES AWM,
00048510  5064                        *                            AWP, OR NOT YET RECEIVED
00048520  5065          2492          LINK       PH26,24PH         A/C IN MAINTENANCE
00048530  5066          2493  UPSAK   TEST E     PB8,1,DB619       IS A/C NOW OPC
00048540  5067          2494          ASSIGN     9,1,PB            ACTIVITY=AVAILABLE FOR MISSION CALL
* 12/10/82 5068          2495          ASSIGN     16,0,PF           CLEAR THIS PARAM.
00048550  5069          2496          LEAVE      PH21              EVENT STORAGE
00048560  5070          2497          ASSIGN     40,0,PB           RESET GROUND CREW PREFLIGHT NOT
00048570  5071                        *                            NEEDED FLAG
00048580  5072          2498          MARK       15PF              TIME UNSCHEDULED MAINTENANCE
00048590  5073                        *                            COMPLETED
00048600  5074          2499          TEST E     BV$CYOPS,1,UPSAL  CYCLIC OPS
00048610  5075          2500          TEST E     PB34,1,UPSAL      IS A/C ON HANGAR DECK
00048620  5076          2501          TEST L     MH$TYPE(6,PB6),2,UPSAM        OPERATING UNDER PHASED
00048630  5077                        *                                        MAINTENANCE
00048640  5078          2502          TRANSFER   SBR,PHAAA,16PM    CHECK FOR PHASED INSPECTION DUE
00048650  5079          2503  UPSAM   GATE LR     RSPM2,UPSAN       OK TO RESPOT A/C
* 12/10/82 5080          2504          ASSIGN     18,V$RSPOT,PH     RESPOT TIME
00048660  5081          2505          TRANSFER   SBR,RSPFA,11PM    RESPOT TO FLIGHT DECK
00048670  5082          2506  UPSAN   REMOVE     PH34              A/C IN MAINTENANCE
00048680  5083          2507          LINK       PH7,9PB           A/C NOT IN MAINTENANCE
00048690  5084          2508  UPSAL   REMOVE     PH34              A/C IN MAINTENANCE
00048700  5085          2509          TEST E     MH$TYPE(6,PB6),2,UPSAP        OPERATING UNDER PHASED
00048710  5086                        *                                        MAINTENANCE
00048720  5087          2510          TRANSFER   SBR,PHAAA,16PM    CHECK FOR PHASED INSPECTION DUE
00048730  5088          2511  UPSAP   LINK       PH7,9PB           A/C NOT IN MAINTENANCE
00048740  5089                        *
00048750  5090                        *
00048760  5091                        *
00048770  5092                        ***** PAGE ADVC - DETERMINE TIME TO NEXT LAUNCH OR NEXT FIRST SHIFT ****
00048780  5093          2512  ADVCA   TEST E     P56,0,ADVCF       IS THIS THE FIRST ENTRY THIS XACT
00048790  5094          2513          ASSIGN     0,MH$EXEC(2,1),PH MODEL OPERATIONAL CYCLE
00048800  5095          2514          ASSIGN     6,1,PH            MARK THIS PB
00048810  5096          2515          SAVEVALUE  ADCOL,1,XH        CURRENT COLUMN NUMBER - MH$OPS
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GPSS/H  V4/37-  RELEASE 1.3  (AY162)        1? DEC 82  1034:8?4     FILE: A7ENCUPS

   LINE#  STMT#  IF OD  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00048820   5097            2515         TEST E     PB3,2,ADVCH       IS THIS AN AIR PLAN XACT
00048830   5098            2517         TEST NE    MH*PH1.(1,XH$ADCOL),0,ADVCG   NOT A STAND DOWN DAY
00048840   5099            2518  ADVCI  SAVEVALUE  ADVAL,MH*XH$ADMH(XH$ADROW,1),XH     MH VALUE - START
00048850   5100                  *                                                    TIME
00048860   5101            2519         SAVEVALUE  ADVNC,V$CNVRT,XH  TOTAL TIME
00048870   5102            2520         SAVEVALUE  ADVNC-,1,XH       MAKE CORRECTION FOR FIRST DAY
00048880   5103            2521         TRANSFER   PH,6,1
00048890   5104            2522  ADVCF  SAVEVALUE  ADCOL,XH$OPCOL,XH CURRENT COL NR. - MH$OPS
000488A0   5105            2523  ADVCG  SAVEVALUE  ADVNC,V$ENDAY,XH  TIME REMAINING UNTIL END OF DAY
000488B0   5106            2524  ADVCB  TEST E     XH$ADCOL,MH$EXEC(2,1),ADVCC   IS THIS THE LAST COL.
000488C0   5107            2525         SAVEVALUE  ADCOL,1,XH        FIRST COLUMN
000488D0   5108            2526  ADVCD  TEST E     PB3,2,ADVCJ       IS THIS AN AIR PLAN XACT
000488E0   5109            2527         TEST NE    MH*PH1(1,XH$ADCOL),0,ADVCE   NOT A STAND DOWN DAY
000488F0   5110            2528  ADVCK  SAVEVALUE  ADVAL,MH*XH$ADMH(XH$ADROW,XH$ADCOL),XH    MH VALUE -
00048900   5111                  *                                                    START TIME
00048910   5112            2529         SAVEVALUE  ADVNC+,V$CNVRT,XH TOTAL TIME
00048920   5113            2530         TRANSFER   PH,6,1
00048930   5114            2531  ADVCC  SAVEVALUE  ADCOL+,1,XH       NEXT COLUMN
00048940   5115            2532         TRANSFER   ,ADVCD
00048950   5116            2533  ADVCE  SAVEVALUE  ADVNC+,24C,XH     ADD A DAY
00048960   5117            2534         LOOP       8PH,ADVCH
00048970   5118            2535         TRANSFER   ,DBG26
00048980   5119            2536  ADVCH  TEST NE    MH$OPS(XH$OPROW,XH$ADCOL),0,ADVCG   NOT A STAND DOWN
00048990   5120                  *                                                    DAY
000489A0   5121            2537         TRANSFER   ,ADVCI
000489B0   5122            2538  ADVCJ  TEST NE    MH$OPS(XH$OPROW,XH$ADCOL),0,ADVCE   NOT A STAND DOWN
000489C0   5123                  *                                                    DAY
000489D0   5124            2539         TRANSFER   ,ADVCK
000489E0   5125                  *
000489F0   5126                  *
00048A00   5127                  *
00048A10   5128                  ***** PAGE USR - ORGANIZATIONAL MANPOWER RELEASE SUBROUTINE *****
00048A20   5129            2540  USRAA  LEAVE      PH44,PB33         RELEASE MANPOWER
00048A30   5130            2541         REMOVE     PH41,,PB4         A/C USING THIS WORK CENTER
00048A40   5131            2542         TRANSFER   SBR,POSTA,16PH    UPDATE ORG. MAINT. STATISTICS
00048A50   5132            2543         TEST NE    PH11,SCUAL,USRAD  IS THIS NOT A SHIFT CHANGE
00048A60   5133            2544         TEST NE    PB17,17,USRAD     NOT A CANNIBALIZATION REMOVAL
00048A70   5134            2545         TEST NE    PH11,CANAK,USRAI  IS THIS NOT A REPAIR AWAITING
00048A80   5135                  *                                    CANNIBALIZATION
00048A90   5136            2546         TEST NE    PR,42,USRAB       NOT AN IN-CYCLE MAINTENANCE TASK
00048AA0   5137            2547  USRAJ  SAVEVALUE  TALNO,PB4,XH      A/C TAIL NUMBER
00048AB0   5138            2548         SAVEVALUE  WKC,PH45,XH       WORK CENTER I.D.
00048AC0   5139            2549         UNLINK     PH9,USRAK,ALL,BV$USRAI  TASKS THIS A/C AWM THIS WORK
00048AD0   5140                  *                                    CENTER
00048AE0   5141            2550  USRAG  UNLINK     PH9,USRAK,ALL,45PH,XH$WKC     TASKS AWM THIS WORK CTR
00048AF0   5142            2551  USRAD  TRANSFER   PH,11,1
00048B00   5143            2552  USRAI  SAVEVALUE  AWUCA,PF6,XF      NEEDED MRA
00048B10   5144            2553         SAVEVALUE  TALNV,PB29,X3     TAIL NUMBER OF VICTIM A/C
00048B20   5145            2554         UNLINK     PH9,USBAA,1,BV$CANKM,,DBG22   CANNIBALIZATION ACTION
00048B30   5146            2555         TRANSFER   ,USRAJ
00048B40   5147            2556  USRAK  TEST NE    PB3,15,CALBD      IS THIS NOT A SCHEDULED MAINTENANCE
00048B50   5148                  *                                    TASK
00048B60   5149            2557         SCAN       PH7,4PB,PB4,14PB,1PB     GET IN-CYCLE MAINTENANCE FLAG
00048B70   5150            2558         TEST NE    PB1,1,USRAL       IS A/C NOT UNDERGOING IN-CYCLE MAINT
00048B80   5151            2559         SCAN       PH7,4PB,PB4,9PB,9PH      GET CURENT A/C ACTIVITY
00048B90   5152            2560         TEST NE    PH9,3,USRAL       IS A/C NOT IN SCHEDULED MAINTENANCE
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GPSS/H  VM/37, RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0004938C   5153           2551         TEST E     BV$INMNT,0,USBAA  IS A/C NOT AVAILABLE FOR MAINTENANCE
0004939C   5154           2552  USRAL  LINK       PH9,14PH          REPAIRS 4MH
0004940C   5155           2553  USRAC  TEST NE    XH$OSHFT,PB18,USRAC     HAS THE SHIFT CHANGED
0004941C   5156           2554         TRANSFER   PH,11,1
0004942C   5157           2555  USRAL  SAVEVALUE  WKC,PH45,XH       WORK CENTER I.D.
0004943C   5158           2556         TRANSFER   ,USRAG
0004944C   5159                      *
0004945C   5160                      *
0004946C   5161                      *
0004947C   5162                      ***** PAGE POST - STATISTICAL POSTING SUBROUTINES *****
0004948C   5163                      *
0004949C   5164                      * WORK CENTER STATISTICS
0004950C   5165           2557  POSTA  TEST NE    PB3,1,POSTL       IS THIS NOT AN A/C XACT
0004951C   5166           2558         SAVEVALUE  EMT,V$EMTD,XH     EMT SINCE LAST UPDATE
0004952C   5167           2559         SAVEVALUE  WKC,PH45,XH       WORK CENTER I.D.
0004953C   5168           2570         SAVEVALUE  MEN,PB38,XH       MANPOWER USED
0004954C   5169           2571         SAVEVALUE  DMMH,V$DMMH,XH    DIRECT MMH SINCE LAST UPDATE
0004955C   5170           2572         TEST E     PB21,1,POSTM      WAS REPAIR SUCCESSFUL
0004956C   5171                      *                             (OR SCHED. MAINT. TASK COMPLETED)
0004957C   5172           2573         TRANSFER   ,POSTL
0004958C   5173           2574  POSTM  TEST NE    PB3,15,POSTG      IS THIS NOT A SCHED. MAINT. XACT
0004959C   5174           2575         TEST E     BV$ENDMA,1,POSTG  IS MAINTENANCE ACTION COMPLETED
0004960C   5175           2576  POSTL  MSAVEVALUE PH12+,FN$PTRJ5,FN$PTRJ6,1,MX  ITEMS THIS TYPE MAINT.
0004961C   5176                      *                             THIS WORK CENTER
0004962C   5177           2577         MSAVEVALUE PH12+,FN$PTRJ5,13,1,MX  TOTAL ITEMS PROCESSED THIS
0004963C   5178                      *                             WORK CENTER
0004964C   5179           2578         MSAVEVALUE PH12+,17,13,1,MX  TOTAL ITEMS PROCESSED
0004965C   5180           2579         MSAVEVALUE PH12+,17,FN$PTRJ6,1,MX  TOTAL ITEMS PROCESSED THIS
0004966C   5181                      *                             TYPE MAINTENANCE
0004967C   5182           2580         TEST GE    PB9,11,POSTS      IS THIS UNSCHEDULED MAINTENANCE
0004968C   5183           2581         MSAVEVALUE PH12+,FN$PTRJ5,6,1,MX   TOTAL UNSCHEDULED  MA'S THIS
0004969C   5184                      *                             WORK CENTER
0004970C   5185           2582         MSAVEVALUE PH12+,17,6,1,MX   TOTAL MAINTENANCE ACTIONS
0004971C   5186           2583  POSTG  MSAVEVALUE PH12+,FN$PTRJ5,FN$PTRJ7,XH$DMMH,MX  DIRECT MMH
0004972C   5187                      *                             THIS TYPE MAINT. THIS WORK CENTER
0004973C   5188           2584         TEST GE    PB9,11,POSTT      IS THIS UNSCHEDULED MAINTENANCE
0004974C   5189           2585         MSAVEVALUE PH12+,FN$PTRJ5,16,XH$DMMH,MX  TOTAL DMMH - UNSCHEDULED
0004975C   5190                      *                             THIS WORK CENTER
0004976C   5191           2586         MSAVEVALUE PH12+,17,16,XH$DMMH,MX  TOTAL DIRECT MMH
0004977C   5192           2587  POSTK  MSAVEVALUE PH12+,FN$PTRJ5,23,XH$DMMH,MX  TOTAL DIRECT MMH
0004978C   5193                      *                             THIS WORK CENTER
0004979C   5194           2588         MSAVEVALUE PH12+,17,FN$PTRJ7,XH$DMMH,MX  TOTAL DIRECT MMH
0004980C   5195                      *                             THIS TYPE MAINTENANCE
0004981C   5196           2589         MSAVEVALUE PH12+,17,23,XH$DMMH,MX  TOTAL DIRECT MMH
0004982C   5197           2590         TEST NE    PB3,1,POSTP       IS THIS NOT AN A/C XACT
0004983C   5198           2591         TEST NE    PB3,15,POSTH      IS THIS NOT A SCHED. MAINT. XACT
0004984C   5199           2592         TRANSFER   ,POSTI
0004985C   5200           2593  POSTP  TEST L     PB9,11,POSTH      WAS THIS AN INSPECTION, NOT MAINT.
0004986C   5201           2594         MSAVEVALUE PH13+,FN$PTRJ1,2,1,MX   INSPECTIONS BY EVENT
0004987C   5202           2595         TEST E     BV$RCNF,1,POSTH   WAS THIS ORDNANCE RECONFIGURATION
0004988C   5203           2596         MSAVEVALUE PH13+,7,2,1,MX    ORDNANCE RECONFIGURATIONS
0004989C   5204           2597  POSTH  TRANSFER   PH,15,1
0004990C   5205           2598  POSTS  TEST NE    PB3,15,POSTG      IS THIS NOT SCHEDULED MAINTENANCE
0004991C   5206           2599         MSAVEVALUE PH12+,FN$PTRJ5,10,1,MX  TOTAL SUPPORT ACTIONS THIS
0004992C   5207                      *                             WORK CENTER
0004993C   5208           2600         MSAVEVALUE PH12+,17,10,1,MX  TOTAL SUPPORT ACTIONS
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GPSS/H  V4/37  RELEASE 1.3 (AY142)       13 DEC 82  10:40:34    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

0004994U   5209          2631          TRANSFER   ,POSTG
0004995U   5210          2632   POSTT  TEST NE     PB3,15,POSTK      IS THIS NOT SCHEDULED MAINTENANCE
0004996U   5211          2633          MSAVEVALUE PH12*,FN$PTR*5,20,XH$DMMH,MX  TOTAL DMMH - SUPPORT -
0004997U   5212                        *                                        THIS WORK CENTER
0004998U   5213          2634          MSAVEVALUE PH12*,17,20,XH$DMMH,MX  TOTAL DMMH - SUPPORT
0004999U   5214          2635          TRANSFER   ,POSTK
0005000U   5215                        *
0005001U   5216                        * MRA & SUBSYSTEM ORGANIZATIONAL MAINTENANCE STATISTICS
0005002U   5217          2636   POSTI  TEST NE     PB17,17,POSTJ     IS THIS NOT A CANNIBALIZATION
0005003U   5218                        *                               REMOVAL
0005004U   5219          2637          TEST NE     PB17,18,POSTB     IS THIS NOT A CANNIBALIZATION
0005005U   5220                        *                               REPLACEMENT
0005006U   5221          2638          SAVEVALUE   OUT1,FN$PTR*6,XB  COLUMN NUMBER - SUBSYSTEM MH
0005007U   5222          2639          TEST E      BV$ADMA,1,POSTJ   IS MAINTENANCE ACTION COMPLETED
0005008U   5223          2640          MSAVEVALUE PH19*,PH20,XB$OUT1,1,MH TOTAL MAINT. ACTIONS THIS MRA
0005009U   5224                        *                                   BY WHEN DISCOVERED
0005010U   5225          2641          MSAVEVALUE PH19*,PH20,54,1,MH       TOTAL MAINT. ACTIONS THIS MRA
0005011U   5226          2642          SAVEVALUE   OUT1-,20,XB       COLUMN NR. - SYSTEM MX
0005012U   5227          2643          MSAVEVALUE PH3*,PH4,XB$OUT1,1,MX    TOTAL MAINT. ACTIONS THIS
0005013U   5228                        *                                   SUBSYSTEM BY WHEN DISCOVERED
0005014U   5229          2644          MSAVEVALUE SYSUM*,P85,XH$OUT1,1,MX TOTAL MAINTENANCE ACTIONS
0005015U   5230                        *                                   BY WHEN DISCOVERED
0005016U   5231          2645          MSAVEVALUE PH3*,PH4,34,1,MX  TOTAL MAINT. ACTION THIS SUBSYSTEM
0005017U   5232          2646          MSAVEVALUE SYSUM*,P85,34,1,MX       TOTAL MAINTENANCE ACTIONS
0005018U   5233          2647   POSTQ  SAVEVALUE   MEN,PB38,XH         ORG. PRIMARY MANPOWER
0005019U   5234          2648          SAVEVALUE   MEN*,PB10,XH        ORG. SECONDARY MANPOWER
0005020U   5235          2649          SAVEVALUE   DMMH,V$DMMH,XH     DIRECT MMH SINCE LAST UPDATE
0005021U   5236          2650          MSAVEVALUE PH19*,PH20,58,XH$EMT,MH TOTAL EMT THIS MRA
0005022U   5237          2651          MSAVEVALUE PH19*,PH20,56,XH$DMMH,MH      TOTAL DMMH THIS MRA
0005023U   5238          2652          MSAVEVALUE PH3*,PH4,35,XH$EMT,MX    TOTAL EMT THIS SUBSYSTEM
0005024U   5239          2653          MSAVEVALUE SYSUM*,P85,35,XH$EMT,MX TOTAL EMT
0005025U   5240          2654          MSAVEVALUE PH3*,PH4,36,XH$DMMH,MX   TOTAL DMMH THIS SUBSYSTEM
0005026U   5241          2655          MSAVEVALUE SYSUM*,P85,36,XH$DMMH,MX      TOTAL DMMH
0005027U   5242          2656   POSTB  TRANSFER   PH,16,1
0005028U   5243                        *
0005029U   5244                        * INTERMEDIATE MAINTENANCE STATISTICS
0005030U   5245          2657   POSTJ  SAVEVALUE   DMMH,V$DMMH,XH     DIRECT MMH - INTERMEDIATE
0005031U   5246          2658          MSAVEVALUE PH19*,PH20,59,XH$EMT,MH EMT THIS ITEM - INT.
0005032U   5247          2659          MSAVEVALUE PH3*,PH4,39,XH$EMT,MX    TOTAL EMT (INT) THIS SUBSYSTEM
0005033U   5248          2660          MSAVEVALUE SYSUM*,P85,39,XH$EMT,MX TOTAL EMT - INTERMEDIATE
0005034U   5249          2661          MSAVEVALUE PH19*,PH20,60,XH$DMMH,MH     DIRECT MMH THIS ITEM - INT
0005035U   5250          2662          MSAVEVALUE PH3*,PH4,40,XH$DMMH,MX  DIRECT MMH (INT) THIS
0005036U   5251                        *                                   SUBSYSTEM
0005037U   5252          2663          MSAVEVALUE SYSUM*,P85,40,XH$DMMH,MX      TOTAL DIRECT MMH (INT)
0005038U   5253          2664          MSAVEVALUE AIMD*,FN$PTR12,9,XH$DMMH,MX   DIRECT MMH THIS W.C.
0005039U   5254          2665          MSAVEVALUE AIMD*,30,9,XH$DMMH,MX   TOTAL DIRECT MMH - AIMD
0005040U   5255          2666          MSAVEVALUE PH19*,PH20,54,1,MH    IMA MAINT. ACTIONS THIS ITEM
0005041U   5256          2667          MSAVEVALUE PH3*,PH4,35,1,MX  IMA MAINT. ACTIONS THIS SUBSYSTEM
0005042U   5257          2668          MSAVEVALUE SYSUM*,P85,34,1,MX       TOTAL IMA MAINTENANCE ACTIONS
0005043U   5258          2669          MSAVEVALUE AIMD*,FN$PTR12,8,1,MX  ITEMS PROCESSED THIS WORK CTR.
0005044U   5259          2670          MSAVEVALUE AIMD*,30,8,1,MX   TOTAL AIMD ITEMS PROCESSED
0005045U   5260          2671          TRANSFER   PH,16,1
0005046U   5261                        *
0005047U   5262                        *
0005048U   5263                        *
0005049U   5264                        ***** PAGE UPD - SCIR STATISTICS UPDATE SUBROUTINE *****
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   GPSS/H  V4/370 RELEASE 1.0 (AY142)       10 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00050500  5265          2642   UPDAA  TEST NE     MP9PF,0,UPDAB     1ST UPDATE THIS A/C THIS CLOCK TIME
00050510  5266          2643          GATE LR     UPDA1             LET 1 XACT IN
00050520  5267          2644          LOGIC S     UPDA1             CLOSE THE GATE
00050530  5268          2645          SAVEVALUE   UTIME,MP2PF,XH    TIME SINCE LAST UPDATE
00050540  5269          2646          SAVEVALUE   MISS,PB9,XB       CURRENT MISSION CAPABILITY
00050550  5270          2647          ASSIGN      1,PR,PB           ENTERING PRIORITY
00050560  5271          2648          PRIORITY    25,BUFFER         PROCESS ALL DISCREPANCY XACTS
00050570  5272          2649   UPDAC  UNLINK      PH28,UPDAD,ALL,4PB      DISCREPANCIES THIS A/C
00050580  5273          2650          TEST E      H$UPDAC,PB29,DBG36      CHECK NUMBER OF DISCREPANCIES
00050590  5274          2651          BUFFER                        PROCESS UNLINKED XACTS
00050600  5275          2652          TEST NE     CH$BIN,0,UPDA1    DOES DATA BIN HAVE AT LEAST 1
00050610  5276                  *                                   DISCREPANCY
00050620  5277          2653          SAVEVALUE   SUPP,0,XB         CLEAR
00050630  5278          2654          SAVEVALUE   USCH,0,XB         CLEAR
00050640  5279          2655          SAVEVALUE   SCH,0,XB          CLEAR
00050650  5280          2656          UNLINK      BIN,UPDAE,1       MOST DEGRADING DISCREPANCY
00050660  5281          2657          BUFFER                        PROCESS ALL UNLINKED XACTS
00050670  5282          2658          TRANSFER    SBR,UPDBA,43PH    UPDATE MX$UTIL_
00050680  5283          2659          TRANSFER    SBR,UPDCA,43PH    UPDATE MX$MCAP_
00050690  5284          2660          TRANSFER    SBR,UPDDA,43PH    UPDATE MX$AMMR_
00050700  5285          2661          TRANSFER    SBR,UPDEA,43PH    UPDATE SUBSYSTEM MH, MX$SYST_,
00050710  5286                  *                                   & MX$SYSUM
00050720  5287          2662          TRANSFER    SBR,UPDFA,43PH    UPDATE MX$SCIM_
00050730  5288          2663   UPDAK  PRIORITY    PB1               ENTERING PRIORITY
00050740  5289          2664          MARK        9PF               TIME SCIR STATISTICS LAST UPDATED
00050750  5290          2665          LOGIC R     UPDA1             OPEN THE GATE
00050760  5291          2665   UPDAB  TRANSFER    PH,16,1
00050770  5292          2667   UPDAD  TEST NE     PH28,0,UPDAF      IS DISCREPANCY SCIR-RELATED
00050780  5293          2668          TEST NE     MP2PF,0,UPDAF     IS THIS A PRE-EXISTING DISCREPANCY
00050790  5294          2669          ASSIGN      32,V$LINK1,PH     LINK IN ORDER OF DECREASING EOC
00050800  5295          2670          LINK        BIN,32PH          DATA BIN
00050810  5296          2671   UPDAF  LINK        PH6,14PH          DISCREPANCIES THIS SQUADRON
00050820  5297          2672   UPDAE  TEST E      V$CMCOD,XB$MISS,DBG37   DOES DISCREPANCY MISSION CODE
00050830  5298                  *                                   AGREE WITH A/C MISSION CAPABILITY
00050840  5299          2673          UNLINK      BIN,UPDAG,ALL,BV$MMCOD  OTHER DISCREPANCIES WITH SAME
00050850  5300                  *                                   MISSION CODE
00050860  5301          2674   UPDAG  TEST NE     PB3,14,UPDAJ      NOT A SCHEDULED MAINTENANCE XACT
00050870  5302          2675          TEST GE     PH10,3,UPDAH      IS DISCREPANCY AMP
00050880  5303          2676          SAVEVALUE   SUPP+,1,XB         STATUS COUNT - SUPPLY
00050890  5304          2677          LINK        BIN,32PH          DATA BIN
00050900  5305          2678   UPDAH  SAVEVALUE   USCH+,1,XB        STATUS COUNT - UNSCHEDULED MAINT.
00050910  5306          2679          LINK        BIN,32PH          DATA BIN
00050920  5307          2680   UPDAJ  SAVEVALUE   SCH+,1,XB         STATUS COUNT - SCHEDULED MAINT.
00050930  5308          2681          LINK        BIN,32PH          DATA BIN
00050940  5309          2682   UPDAI  TEST E      BV$UPDA2,1,DBG50  WAS A/C UPC OR IN SCHED. MAINT.
00050950  5310          2683          TRANSFER    SBR,UPDBA,43PH    UPDATE MX$UTIL_
00050960  5311          2684          TRANSFER    ,UPDAK
00050970  5312                  *
00050980  5313                  *
00050990  5314                  *
00051000  5315                  * PAGE UPDB - UPDATE MX$UTIL_
00051010  5316          2685   UPDBA  SAVEVALUE   UPMAT,PH15,XH          MATRIX TO BE UPDATED
00051020  5317          2686          SAVEVALUE   LKJN,V$KLDIR,XB        LAST KJN IN MX$UTIL
00051030  5318          2687          MSAVEVALUE  XH$UPMAT+,PB+,9,XH$UTIME,MX   LIS TIME THIS A/C
00051040  5319          2688          MSAVEVALUE  XH$UPMAT+,XB$LKJN,9,XH$UTIME,MX     LIS TIME THIS
00051050  5320                  *                                                    SQUADRON
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GPSS/H  VM/370 RELEASE 1.0 (AY162)      10 DEC 82  10:40:34    FILE: A7ENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00051060  5321          2689          SAVEVALUE  MSTSK,0,XH          CLEAR
00051070  5322          2690          TEST G     XB$MISS,1,UPDBB     WAS A/C NOT UPC
00051080  5323          2691          TEST E     XB$MISS,26,UPDBF    WAS A/C NMC
00051090  5324          2692          SAVEVALUE  MSTSK,V$MSTSK,XH    MISSION STATUS TIME - SCHEDULED
00051100  5325                      *                                MAINTENANCE
00051110  5326          2693          MSAVEVALUE XH$UPMAT+,PB4,6,XH$MSTSK,MX   MISSION STATUS TIME -
00051120  5327                      *                                SCHED. MAINT. THIS A/C
00051130  5328          2694          MSAVEVALUE XH$UPMAT+,XB$LRON,6,XH$MSTSK,MX     MISSION STATUS
00051140  5329                      *                                TIME, SCHED. MAINT. THIS SQUADRON
00051150  5330          2695  UPDBF   SAVEVALUE  COL,FN$CSUPP,XB     COLUMN NUMBER - SUPPLY
00051160  5331          2696          SAVEVALUE  MSTS,V$MSTS,XH      MISSION STATUS TIME - SUPPLY
00051170  5332          2697          MSAVEVALUE XH$UPMAT+,PB4,XB$COL,XH$MSTS,MX      MISSION STATUS
00051180  5333                      *                                TIME, SUPPLY - THIS A/C
00051190  5334          2698          MSAVEVALUE XH$UPMAT+,XB$LRON,XB$COL,XH$MSTS,MX MISSION STATUS
00051200  5335                      *                                TIME, SUPPLY - THIS SQUADRON
00051210  5336          2699          SAVEVALUE  COL-,1,XB           COLUMN NUMBER - UNSCHED. MAINT.
00051220  5337          2700          SAVEVALUE  MSTU,V$MSTU,XH      MISSION STATUS TIME - UNSCH. MAINT.
00051230  5338          2701          MSAVEVALUE XH$UPMAT+,PB4,X3$COL,XH$MSTU,MX      MISSION STATUS
00051240  5339                      *                                TIME, UNSCHED. MAINT. - THIS A/C
00051250  5340          2702          MSAVEVALUE XH$UPMAT+,XB$LRON,X3$COL,XH$MSTU,MX MISSION STATUS
00051260  5341                      *                                TIME, UNSCHED MAINT. - THIS SQUADRON
00051270  5342          2703          UNLINK G   BIN,UPDBC,A_L,30PH,100,UPDBB  NON-'AJO' DISCREPANCIES
00051280  5343          2704          BUFFER                          PROCESS ALL UNLINKED XACTS
00051290  5344          2705  UPDBB   TRANSFER   PH,43,1
00051300  5345          2706  UPDBC   TEST GE    PB10,3,UPDBD        IS DISCREPANCY AWP
00051310  5346          2707          SAVEVALUE  COL,13,XB           COLUMN NUMBER - SCIR DISCREPANCY
00051320  5347                      *                                TIME, SUPPLY
00051330  5348          2708  UPDBE   MSAVEVALUE XH$UPMAT+,PB4,XB$COL,XH$UTIME,MX     SCIR DISCREPANCY
00051340  5349                      *                                TIME THIS A/C
00051350  5350          2709          MSAVEVALUE XH$UPMAT+,XB$LRON,XB$COL,XH$UTIME,MX      SCIR
00051360  5351                      *                                DISCREPANCY TIME THIS SQUADRON
00051370  5352          2710          LINK       BIN,32PH            DATA BIN
00051380  5353          2711  UPDBD   SAVEVALUE  COL,12,XB           COLUMN NUMBER - SCIR DISCREPANCY
00051390  5354                      *                                TIME - UNSCHEDULED MAINTENANCE
00051400  5355          2712          TRANSFER   ,UPDBE
00051410  5356                      *
00051420  5357                      *
00051430  5358                      *
00051440  5359                      * PAGE UPDC - UPDATE MX$MCAP_
00051450  5360          2713  UPDCA   TEST G     PB9,1,UPDCB         IS A/C NOT UPC
00051460  5361          2714          SAVEVALUE  COL,FN$C4CAP,XB     COLUMN NUMBER - MISSION CAPABILITY
00051470  5362          2715          MSAVEVALUE PH999+,PB+,XB$COL,XH$UTIME,MX  MISSION CAPABLE TIME
00051480  5363                      *                                THIS A/C
00051490  5364          2716          MSAVEVALUE PH999+,XB$LRON,XB$COL,XH$UTIME,MX     MISSION CAPABLE
00051500  5365                      *                                TIME THIS SQUADRON
00051510  5366          2717  UPDCB   TRANSFER   PH,43,1
00051520  5367                      *
00051530  5368                      *
00051540  5369                      *
00051550  5370                      * PAGE UPDD - UPDATE MX$AWM_
00051560  5371          2718  UPDDA   UNLINK G   BIN,UPDDB,A_L,30PH,100,UPDDC  NON-'AJO' SCIR-RELATED
00051570  5372                      *                                DISCREPANCIES THIS A/C
00051580  5373          2719          SAVEVALUE  UPMAT,PH+3,XH       MX TO BE UPDATED
00051590  5374          2720          BUFFER                          PROCESS UNLINKED XACTS
00051600  5375          2721  UPDDC   TRANSFER   PH,43,1
00051610  5376          2722  UPDDB   TEST NE    PB10,3,UPDDI        IS DISCREPANCY MAINTENANCE-RELATED
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GPSS/H  VM/370 RELEASE 1.0 (AV142)       15 DEC 82  10:40:04    FILE: A7ENCOPS

LINE#  STMT#  IF GO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00051620  5377          2723          TEST E     V$CMCOD,26,UPDDD  IS THIS A NMC DISCREPANCY
00051630  5378          2724          TEST NE    P03,14,UPDDH      NOT A SCHEDULED MAINTENANCE XACT
00051640  5379          2725          SAVEVALUE  COL,21,XB         COLUMN NUMBER - NMCMU TIME
00051650  5380          2726  UPDDF   MSAVEVALUE XH$UPMAT+,PB4,XB$COL,XH$UTIME,MX    ELAPSED STATUS
00051660  5381                *                                                      TIME THIS A/C
00051670  5382          2727          MSAVEVALUE XH$UPMAT+,XB$LRON,XB$COL,XH$UTIME,MX      ELAPSED
00051680  5383                *                                                      STATUS TIME THIS SQUADRON
00051690  5384          2728          TEST E     PB1),2,UPDDG      IS DISCREPANCY AWM 1-H
00051700  5385          2729          SAVEVALUE  COL,V$CA1MR,XB    COLUMN NUMBER - AWM REASON
00051710  5386          2730  UPDDJ   MSAVEVALUE XH$UPMAT+,PB4,XB$COL,XH$UTIME,MX    AWM TIME THIS A/C
00051720  5387          2731          MSAVEVALUE XH$UPMAT+,XB$LRON,XB$COL,XH$UTIME,MX      AWM TIME
00051730  5388                *                                                      THIS SQUADRON
00051740  5389          2732          LINK       BIN,32PH          DATA BIN
00051750  5390          2733  UPDDD   TEST G     V$CMCOD,2,UPDDE   IS THIS A PMC DISCREPANCY
00051760  5391          2734          SAVEVALUE  COL,31,XB         COLUMN NUMBER - PMC TIME
00051770  5392          2735          TRANSFER   ,UPDDF
00051780  5393          2736  UPDDE   SAVEVALUE  COL,41,XB         COLUMN NUMBER - FMC TIME
00051790  5394          2737          TRANSFER   ,UPDDF
00051800  5395          2738  UPDDH   SAVEVALUE  COL,11,XB         COLUMN NUMBER - NMCMS TIME
00051810  5396          2739          TRANSFER   ,UPDDF
00051820  5397          2740  UPDDG   TEST E     PB1),0,UPDDI      IS DISCREPANCY NOT YET RECEIVED
00051830  5398          2741          SAVEVALUE  COL-,1,XB         COL. NO. - COMPUTER GENERATED AWM
00051840  5399                *                                    TIME
00051850  5400          2742          TRANSFER   ,UPDDJ
00051860  5401          2743  UPDDI   LINK       BIN,32PH          DATA BIN
00051870  5402                *
00051880  5403                *
00051890  5404                *
00051900  5405                * PAGE UPDE - UPDATE SUBSYSTEM AND SYSTEM MATRICES
00051910  5406          2744  UPDEA   UNLINK     BIN,UPDEL,ALL,3P6,14    SCHEDULED MAINT. XACTS
00051920  5407          2745          UNLINK G   BIN,UPDEB,ALL,30PH,100,UPDEC NON-'A00' SCIR EOC'S
00051930  5408          2746          BUFFER                       PROCESS ALL UNLINKED XACTS
00051940  5409          2747  UPDEL   TRANSFER   PH,43,1
00051950  5410          2748  UPDEL   LINK       PH6,14PH          CURRENT DISCREPANCIES THIS SQUADRON
00051960  5411          2749  UPDEB   TEST E     BV$DAWM,1,UPDED   IS DISCREPANCY AWM
00051970  5412          2750          MSAVEVALUE PH19+,PH20,79,XH$UTIME,MH     AWM TIME THIS WRA
00051980  5413          2751          MSAVEVALUE PH3+,PH4,59,XH$UTIME,MX       AWM TIME THIS SUBSYSTEM
00051990  5414          2752          MSAVEVALUE SYSUM+,P05,59,XH$UTIME,MX     AWM TIME THIS SQUADRON
00052000  5415          2753  UPDED   TEST G     V$CMCOD,12,UPDEE          IS MISSION CODE NMC
00052010  5416          2754          TEST GE    PB1),3,UPDEF     IS DISCREPANCY AWP
00052020  5417          2755          SAVEVALUE  COL1,75,XB       COLUMN NUMBER (NMCS) - SUBSYSTEM MH
00052030  5418          2756          SAVEVALUE  COL2,55,XB       COLUMN NUMBER (NMCS) - MX$SYST_
00052040  5419                *                                    & MX$SYSUM
00052050  5420          2757  UPDEG   MSAVEVALUE PH19+,PH20,X$$COL1,XH$UTIME,MH       SCIR DISCREPANCY
00052060  5421                *                                                      TIME THIS WRA
00052070  5422          2758          MSAVEVALUE PH3+,PH4,XB$COL2,XH$UTIME,MX  SCIR DISCREPANCY TIME
00052080  5423                *                                                      THIS SUBSYSTEM
00052090  5424          2759          MSAVEVALUE SYSUM+,P05,XB$COL2,XH$UTIME,MX       SCIR DISCREPANCY
00052100  5425                *                                                      TIME THIS SQUADRON
00052110  5426          2760          TEST E     V$CMCOD,XB$MISS,UPDEI    IS THIS THE MOST DEGRADING
00052120  5427                *                                          MISSION CODE
00052130  5428          2761          SAVEVALUE  COL1-,4,XB       COLUMN NUMBER - SUBSYSTEM MH
00052140  5429          2762          SAVEVALUE  COL2-,4,XB       COLUMN NUMBER - MX$SYST_ $ MX$SYSUM
00052150  5430          2763          TEST GE    PB1),3,UPDEJ     IS DISCREPANCY AWP
00052160  5431          2764          SAVEVALUE  MISST,XH1MST3,XH  MISSION STATUS TIME
00052170  5432          2765          SAVEVALUE  MISSC,XB+SUBP,XB  MISSION STATUS COUNT
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GPSS/H  V4/37  RELEASE 1.0 (AY142)      13 DEC 82  10:40:04    FILE: A7ENCOPS

   LINE#  STMT#  IF OO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

 00052180   5433          2765   UPDEK SAVEVALUE  IMPCT,V$IMPCT,XH  SCIR IMPACT TIME
 00052190   5434          2767         MSAVEVALUE PH19*,PH20,XB$COL1,XH$IMPCT,MH       SCIR IMPACT TIME
 00052200   5435                   *                                                   THIS MKA
 00052210   5436          2768         MSAVEVALUE PH3*,PH4,XB$COL2,XH$IMPCT,MX  SCIR IMPACT TIME THIS
 00052220   5437                   *                                           SUBSYSTEM
 00052230   5438          2769         MSAVEVALUE SYSU4*,P05,XB$COL2,XH$IMPCT,MX       SCIR IMPACT TIME
 00052240   5439                   *                                                   THIS SQUADRON
 00052250   5440          2770   UPDEI LINK       BIN,32PM          DATA BIN
 00052260   5441          2771   UPDEE TEST G     V$CMCUD,2,UPDEI   IS MISSION CODE PMC
 00052270   5442          2772         TEST GE    P81*,3,UPDEM      IS DISCREPANCY AMP
 00052280   5443          2773         SAVEVALUE  COL1,77,XB        COLUMN NUMBER (PMCS) - SUBSYSTEM MM
 00052290   5444          2774         SAVEVALUE  COL2,57,XB        COLUMN NUMBER (PMCS) - MX$SYST_
 00052300   5445                   *                                & 4X$SYSUM
 00052310   5446          2775         TRANSFER   ,UPDEG
 00052320   5447          2776   UPDEF SAVEVALUE  COL1,76,XB        COLUMN NUMBER (NMCM) - SUBSYSTEM MM
 00052330   5448          2777         SAVEVALUE  COL2,56,XB        COLUMN NUMBER (NMCM) - MX$SYST_
 00052340   5449                   *                                & 4X$SYSUM
 00052350   5450          2778         TRANSFER   ,UPDEG
 00052360   5451          2779   UPDEH SAVEVALUE  COL1,78,XB        COLUMN NUMBER (PMCM) - SUBSYSTEM MM
 00052370   5452          2780         SAVEVALUE  COL2,58,XB        COLUMN NUMBER (PMCM) - MX$SYST_
 00052380   5453                   *                                & 4X$SYSUM
 00052390   5454          2781         TRANSFER   ,UPDEG
 00052400   5455          2782   UPDEJ SAVEVALUE  MISST,XH$MSTU,XH  MISSION STATUS TIME
 00052410   5456          2783         SAVEVALUE  MISSC,XB$USCH,XB  MISSION STATUS COUNT
 00052420   5457          2784         TRANSFER   ,UPDEK
 00052430   5458                   *
 00052440   5459                   *
 00052450   5460                   *
 00052460   5461                   * PAGE UPDF - UPDATE MX$SCIM_
 00052470   5462          2785   UPDFA UNLINK G   BIN,UPDFB,1,30PM,100,JPDFC    MUST DEGRADING NON-'A00'
 00052480   5463                   *                                           DISCREPANCY
 00052490   5464          2786         SAVEVALUE  NMEOC,0,XB        CLEAR
 00052500   5465          2787   UPDFJ SAVEVALUE  NSUP,0,XB        CLEAR
 00052510   5466          2788         SAVEVALUE  NUSC,0,XB        CLEAR
 00052520   5467          2789         BUFFER                      PROCESS UNLINKED XACT(S)
 00052530   5468          2790         TEST E     XB$NUSC,,,UPDFH  NO MAINTENANCE-RELATED DISCREPANCIES
 00052540   5469                   *                                THIS EOC
 00052550   5470          2791         MSAVEVALUE PH3d*,XB$IMPRM,5,XH$UTIME,MX  SUBSYSTEM NOT AVAILABLE
 00052560   5471                   *                                           TIME - SUPPLY
* 12/10/82  5472          2792         MSAVEVALUE SCIT*,1,5,XH$UTIME,MX     *ISI*  SUM COL. NO. 5
 00052570   5473          2793   UPDFK UNLINK G   BIN,UPDFB,1,30PM,100,UPDFT    NEXT,MUST DEGRADING
 00052580   5474                   *                                           NON 'A00' EOC
 00052590   5475          2794         TRANSFER   ,UPDFJ
 00052600   5476          2795   UPDFC UNLINK     BIN,UPDFU,ALL     REMAINING DISCREPANCIES
 00052610   5477          2796         BUFFER                      PROCESS UNKINKED XACT(S)
 00052620   5478          2797         TRANSFER   PH,43,1
 00052630   5479          2798   UPDFU TEST E     PH37,100,DBG41    IS THIS AN 'A00' EOC
 00052640   5480          2799         LINK       PH6,14PM          DISCREPANCIES THIS SQUADRON
 00052650   5481          2800   UPDFH TEST L     XB$NSUP,,,UPDFI   NO SUPPLY-RELATED DISCREPANCIES THIS
 00052660   5482                   *                                EOC
 00052670   5483          2801         MSAVEVALUE PH3d*,XB$IMPRM,4,XH$UTIME,MX  SUBSYSTEM NOT AVAILABLE
 00052680   5484                   *                                           TIME - MAINTENANCE
* 12/10/82  5485          2802         MSAVEVALUE SCIT*,1,4,XH$UTIME,MX     *ISI*  SUM COL. NO. 4
 00052690   5486          2803         TRANSFER   ,UPDFK
 00052700   5487          2804   UPDFI MSAVEVALUE PH34*,XB$IMPRM,5,V$UPDFI,MX  SUBSYSTEM NOT AVAILABLE
 00052710   5488                   *                                           TIME - SUPPLY
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    GPSS/H  V4/37? RELEASE 1.0 (AY192)       1? DEC 82  10:40:04    FILE: A7ENCUPS

    LINE#  STMT#  IF UD  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

* 12/10/82  5489          2805          MSAVEVALUE SCIT*,1,5,V$UPDF1,MX      *ISI*  SUM COL. NO. 5
  00052720  5490          2805          MSAVEVALUE PH3?*,XB,IMPRN,4,V$UPDF2,MX    SUBSYSTEM NOT AVAILABLE
  00052730  5491                      *                                        TIME - MAINTENANCE
* 12/10/82  5492          2807          MSAVEVALUE SCIT*,1,4,V$UPDF2,MX      *ISI*  SUM COL. NO. 4
  00052740  5493          2808          TRANSFER   ,UPDFK
  00052750  5494          2809  UPDFB   SAVEVALUE  IMPRN,PB?4,XB            ROW NUMBER - MX$SCIM_
  00052760  5495          2810          TEST E     V$CMCOD,XB$MISS,UPDFL     IS THIS THE MOST DEGRADED
  00052770  5496                      *                                        MISSION CODE
  00052780  5497          2811          SAVEVALUE  NMEOC*,1,XB          COUNT EOC'S WITH MOST DEGRADED
  00052790  5498                      *                                  MISSION CODE
  00052800  5499          2812  UPDFL   UNLINK     MIN,UPDFD,ALL,3?PH       OTHER DISCREPANCIES THIS EOC
  00052810  5500          2813  UPDFD   TEST GE    PB1?,3,UPDFE             IS DISCREPANCY SUPPLY-RELATED
  00052820  5501          2814          SAVEVALUE  NSUP*,1,XB          COUNT SUPPLY-RELATED DISCREPANCIES
  00052830  5502                      *                                  THIS EOC
  00052840  5503          2815          MSAVEVALUE PH3?*,XB,IMPRN,7,XH$UTIME,MX  SCIR DISCREPANCY TIME
  00052850  5504                      *                                        THIS EOC - SUPPLY
* 12/10/82  5505          2816          MSAVEVALUE SCIT*,1,7,XH$UTIME,MX     *ISI*  SUM COL NO. 7
  00052860  5506          2817  UPDFF   TEST E     V$CMCOD,XB$MISS,UPDFG     IS THIS THE MOST DEGRADED
  00052870  5507                      *                                        MISSION CODE
  00052880  5508          2818          LINK       NMEOC,FIFO               MOST DEGRADED MISSION EOC'S
  00052890  5509          2819  UPDFE   SAVEVALUE  NUSC*,1,XB          COUNT MAINTENANCE-RELATED
  00052900  5510                      *                                  DISCREPANCIES THIS EOC
  00052910  5511          2820          MSAVEVALUE PH3?*,XB,IMPRN,6,XH$UTIME,MX  SCIR DISCREPANCY TIME
  00052920  5512                      *                                        THIS EOC - MAINTENANCE
* 12/10/82  5513          2821          MSAVEVALUE SCIT*,1,6,XH$UTIME,MX     *ISI*  SUM COL. NO. 6
  00052930  5514          2822          TEST E     BV$DAWM,1,UPDFF          IS DISCREPANCY AWM
  00052940  5515          2823          MSAVEVALUE PH3?*,XB,IMPRN,8,XH$UTIME,MX  AWM TIME THIS EOC
* 12/10/82  5516          2824          MSAVEVALUE SCIT*,1,8,XH$UTIME,MX     *ISI*  SUM COL NO. 8
  00052950  5517          2825          TRANSFER   ,UPDFF
  00052960  5518          2826  UPDFG   LINK       PH6,14PH                 DISCREPANCIES THIS SQUADRON
  00052970  5519          2827  UPDFT   UNLINK     MMEOC,UPDFN,1,,,UPDFC    EOC WITH MOST DEGRADED
  00052980  5520                      *                                        MISSION CODE
  00052990  5521          2828          SAVEVALUE  NSUP,0,XB            CLEAR
  00053000  5522          2829          SAVEVALUE  NUSC,0,XB            CLEAR
  00053010  5523          2830          BUFFER                          PROCESS UNLINKED XACT(S)
  00053020  5524          2831          TEST E     XB$NUSC,,,UPDFR       NO MAINTENANCE-RELATED DISCREPANCIES
  00053030  5525                      *                                  THIS EOC
  00053040  5526          2832          MSAVEVALUE PH3?*,XB$IMPRN,3,V$UPDF3,MX   SCIR IMPACT TIME -
  00053050  5527                      *                                        SUPPLY
* 12/10/82  5528          2833          MSAVEVALUE SCIT*,1,3,V$UPDF3,MX      *ISI*  SUM COL. NO. 3
  00053060  5529          2834          TRANSFER   ,UPDFT
  00053070  5530          2835  UPDFR   TEST E     XB$NSUP,?,UPDFS       NO SUPPLY RELATED DISCREPANCIES
  00053080  5531                      *                                  THIS EOC
  00053090  5532          2836          MSAVEVALUE PH3?*,XB$IMPRN,2,V$UPDF3,MX   SCIR IMPACT TIME -
  00053100  5533                      *                                        MAINTENANCE
* 12/10/82  5534          2837          MSAVEVALUE SCIT*,1,2,V$UPDF3,MX      *ISI*  SUM COL. NO. 2
  00053110  5535          2838          TRANSFER   ,UPDFT
  00053120  5536          2839  UPDFS   MSAVEVALUE PH3?*,XB$IMPRN,3,V$UPDF4,MX   SCIR IMPACT TIME -
  00053130  5537                      *                                        SUPPLY
* 12/10/82  5538          2840          MSAVEVALUE SCIT*,1,3,V$UPDF4,MX      *ISI*  SUM COL. NO. 3
  00053140  5539          2841          MSAVEVALUE PH3?*,XB,IMPRN,2,V$UPDF5,MX   SCIR IMPACT TIME -
  00053150  5540                      *                                        MAINTENANCE
* 12/10/82  5541          2842          MSAVEVALUE SCIT*,1,2,V$UPDF5,MX      *ISI*  SUM COL. NO. 2
  00053160  5542          2843          TRANSFER   ,UPDFT
  00053170  5543          2844  UPDFN   SAVEVALUE  IMPRN,PB?4,XB            ROW NUMBER - MX$SCIM_
  00053180  5544          2845          UNLINK     MMEOC,UPDFP,ALL,3?PH      DISCREPANCIES THIS EOC
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GPSS/H  VM/37. RELEASE 1.0 (AV162)       10 DEC 82  10:40:30    FILE: ATENCOPS

  LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00053190  5549          2845   UPDFP  TEST GE    PH1),3,UPDFQ      IS THIS A SUPPLY-RELATED DISCREPANCY
00053200  5546          2847          SAVEVALUE  NSUP+,1,XB        COUNT SUPPLY-RELATED DISCREPANCIES
00053210  5547          2848          LINK       PH5,14PH          DISCREPANCIES THIS SQUADRON
00053220  5548          2849   UPDFQ  SAVEVALUE  NUSC+,1,XB        COUNT MAINTENANCE-RELATED
00053230  5549                                                     DISCREPANCIES
00053240  5550          2850          LINK       PH6,14PH          DISCREPANCIES THIS SQUADRON
00053250  5551                       *
00053260  5552                       *
00053270  5553                       *
00053280  5554                       ***** PAGE CMDS - CHANGE DISCREPANCY STATUS SUBROUTINE *****
00053290  5555          2851   CMDSA  TEST NE    V$NMSTA,V$CMSTA,CMDS8   ANY CHANGE IN DISCREPANCY
00053300  5556                       *                                  MISSION/STATUS CODE
00053310  5557          2852          SAVEVALUE  DMSTA,V$CMSTA,XH  CURRENT MISSION/STATUS CODE
00053320  5558          2853          TEST L     BV$DMST1,1,DBG44  IS THIS A VALID CODE
00053330  5559          2854          SCAN       PH7,4PB,PB4,FN$ACPAR$PB,1P8   CURRENT VALUE OF A/C PB
00053340  5560                       *                                  THIS DISCREPANCY STATUS
00053350  5561          2855          ASSIGN     1-,1,PB           DECREMENT VALUE
00053360  5562          2856          ALTER      PH7,1,FN$ACPAR$PB,PB1,4PB,PB4      A/C PB
00053370  5563          2857          SAVEVALUE  DMSTA,V$NMSTA,XH  NEW MISSION/STATUS CODE
00053380  5564          2858          TEST E     BV$DMST1,1,DBG45  IS THIS A VALID CODE
00053390  5565          2859          SCAN       PH7,4PB,PB4,FN$ACPAR$PB,1P8   CURRENT VALUE OF A/C PB
00053400  5566                       *                                  THIS DISCREPANCY STATUS
00053410  5567          2860          ASSIGN     1+,1,PB           INCREMENT VALUE
00053420  5568          2861          ALTER      PH7,1,FN$ACPAR$PB,PB1,4PB,PB4      A/C PB
00053430  5569          2862   CMDS6  SAVEVALUE  DAMP,0,XB         CLEAR THIS PB
00053440  5570          2863          ASSIGN     2,4,PB            LOOPING PB
00053450  5571          2864   CMDSE  SCAN       PH7,4P6,PB4,FN$CMDS1$PB,1P8   GET COUNT OF
00053460  5572                       *                                  DISCREPANCIES AWP THIS STATUS
00053470  5573          2865          SAVEVALUE  DAMP+,PB1,XB      COUNT TOTAL DISCREPANCIES AWP
00053480  5574          2866          LOOP       2PB,CMDSE         DO FOR ALL AWP DISCREPANCIES
00053490  5575          2867          ALTER      PH7,1,37PB,XB$DAMP,4P3,PB4    ALTER A/C PB37
00053500  5576          2868          ASSIGN     30,PH31,PH        NEW EOC
00053510  5577          2869          ALTER      PH5,1,30PH,PH30,3PF,PF3       DISCREPANCY EOC
00053520  5578          2870          ASSIGN     10,PB11,PB        NEW REPAIR STATUS
00053530  5579          2871          ALTER      PH5,1,10PB,PB10,3PF,PF3 DISCREPANCY REPAIR STATUS
00053540  5580          2872          TEST E     BV$DAWM,1,CMDSC   IS REPAIR AWM
00053550  5581          2873          ASSIGN     15,PB16,PB        NEW AWM REASON
00053560  5582          2874          ALTER      PH5,1,15PB,PB15,3PF,PF3       DISCREPANCY AWM REASON
00053570  5583          2875   CMDSC  TRANSFER   PH,33,1
00053580  5584                       *
00053590  5585                       *
00053600  5586                       *
00053610  5587                       ***** PAGE CMMC - CHANGE AIRCRAFT MISSION CAPABILITY SUBROUTINE *****
00053620  5588          2876   CM4CA  MARK       HPF               TIME MISSION CABILITY CHANGED
00053630  5589          2877          TEST E     PB31,26,CMMCC     IS A/C NOW NMC
00053640  5590          2878          MARK       12PF              TIME A/C BECAME NMC
00053650  5591          2879   CM4CC  TEST E     P$8,1,CM4CB       WAS A/C OPC
00053660  5592          2880          REMOVE     MM$GRP(9,PB5)     OPC A/C THIS SQUADRON
00053670  5593          2881   CM4CB  ASSIGN     4,PB31,P3         NEW MISSION CAPABILITY
00053680  5594          2882          MSAVEVALUE PH44,P04,13,P08,MX      UPDATE MX$MCAP_
00053690  5595          2883          TRANSFER   PH,15,1
00053700  5596                       *
00053710  5597                       *
00053720  5598                       *
00053730  5599                       ***** PAGE OUT - DATA COLLECTION ROUTINE *****
00053740  5600          2884   OUTAA  GENERATE   ,,,1,,25,29PB,44PH,,PF  DATA COLLECTION XACT
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   GPSS/H  VM/370 RELEASE 1.0 (AY142)      1...C 82  10140834    FILE: ATENCOPS

   LINE#  STMT#  IF DO  BLOCK#  *LOC   OPERATION  A,B,C,D,E,F,G   COMMENTS

00053750  5601           2885          SPLIT      MH$EXEC(1,1),OUTAB,5P3  SQUADRON DATA COLLECTION
00053760  5602         *                                          XACT(S)
00053770  5603           2886          TERMINATE
00053780  5604           2887  OUTAB   ASSIGN     5=,1,PB          SQUADRON IDENT.
00053790  5605           2888          ASSIGN     6,MH$COMPL(2,PB5),PB    A/C TYPE THIS SQUADRON
000537A0  5606           2889          ASSIGN     8,MH$GRP(7,PB5),PH      SQUADRON GROUP INDEX
000537B0  5607           2890          ASSIGN     15,MH$COMPL(14,PB5),PH  MX INDEX - UTILIZATION
000537C0  5608         *                                          STATISTICS
000537D0  5609           2891          ASSIGN     23,MH$COMPL(15,PB5),PH  MX INDEX - AWM REASON SUMMARY
000537E0  5610           2892          ASSIGN     25,MH$CHA(1,PB5),PH     CHAIN INDEX - CURRENT
000537F0  5611         *                                          DISCREPANCIES
00053800  5612           2893          ASSIGN     39,MH$TYPE(3,PB6),PH    MX INDEX - SCIR IMPACT SUMMARY
00053810  5613           2894          ASSIGN     44,MH$COMPL(22,PB5),PH  MX INDEX - SCIR MISSION
00053820  5614         *                                          CAPABILITY SUMMARY
00053830  5615           2895          LINK       OUTPT,FIFO      DATA COLLECTION XACTS
00053900  5616           2896  OUTAC   ASSIGN     3,MH$COMPL(3,PB5),PB    NO. OF A/C IN SQUADRON
00053910  5617           2897  OUTAD   SCAN       PH3,21PB,PB3,4PB,4PB    GET A/C SERIAL NUMBER
00053920  5618           2898          SCAN       PH3,21PB,PB3,8PB,8PB    CURRENT MISSION CAPABILITY
00053930  5619           2899          SCAN       PH3,21PB,PB3,9PB,9PB    CURRENT ACTIVITY
00053940  5620           2900          SCAN       PH3,21PB,PB3,29PB,29P3  CURRENT DISCREPANCY COUNT
00053950  5621           2901          SCAN       PH3,21PB,PB3,9PF,9PF    TIME SCIR STATISTICS LAST
00053960  5622         *                                          UPDATED
00053970  5623           2902          TRANSFER   SBR,UPDAA,16PH  UPDATE SCIR STATISTICS
00053980  5624           2903          ALTER      PH3,1,9PF,C1,21PB,PB3   TIME SCIR STATISTICS LAST
00053990  5625         *                                          UPDATED
00054000  5626           2904          LOOP       3PB,OUTAD       DO FOR ALL A/C IN SQUADRON
00054010  5627           2905          LINK       OUTPT,FIFO      DATA COLLECTION XACTS
00054020  5628         *
00054030  5629         *
00054040  5630         *
00054050  5631         ***** PAGE TIM - SIMULATION RUN TIMING ROUTINE *****
00054060  5632           2905  TIMA    GENERATE   240,,,,120,1PB  DAILY TIMING XACT
00054070  5633           2907          SAVEVALUE  DAY+,1,XH       DAY NUMBER
00054080  5634           2908  TIMC    SAVEVALUE  DPCOL,V$CYCLE,XH  COLUMN NUMBER - MH$OPS
00054090  5635           2909          PRIORITY   125             RAISE PRIORITY
000540A0  5636           2910          TEST NE    XH$DAY,1,TIMF   IS THIS NOT THE FIRST DAY
000540B0  5637           2911          ADVANCE    240             END OF THE DAY
000540C0  5638           2912  TIMG    TEST NE    XH$OUTPT,0,TIMH  IS MODEL OUTPUT CYCLE DEFINED
000540D0  5639           2913          TEST L     XH$DAY,XH$OUTPT,TIMH    COLLECT OUTPUT DATA
000540E0  5640           2914  TIMI    UNLINK     OUTPT,OUTAC,ALL  DATA COLLECTION  XACTS
000540F0  5641           2915          PRIORITY   15,BUFFER       PROCESS DATA COLLECTION  XACTS
00054100  5642           2915          TEST G     TG1,1,TIMB      IS THIS NOT THE LAST DAY
00054170  5643           2917          PRINT      ,,C             PRINT CURRENT CLOCK TIME
* 12/10/82 5644         *             PRINT      ,,SNAP
* 12/10/82 5645           2918          PRINT      MISX1,MISX1,MX
* 12/10/82 5646           2919          PRINT      UTIL1,UTIL1,MX
* 12/10/82 5647           2920          PRINT      MCAP1,MCAP1,MX
00054190  5648           2921          SAVEVALUE  OUTPT+,MH$EXEC(3,1),XH  NEXT DAY FOR OUTPUT
00054200  5649           2922  TIMB    TERMINATE  1
00054210  5650           2923  TIMH    TEST G     TG1,1,TIMI      IS THIS NOT THE LAST DAY
00054220  5651           2924          TERMINATE  1
00054230  5652           2925  TIMD    GENERATE   ,,,1,120,1PH    INITIAL TIMING XACT
00054240  5653           2925          SAVEVALUE  DAY,1,XH        THIS IS THE FIRST DAY
00054250  5654           2927          SAVEVALUE  OUTPT,MH$EXEC(3,1),XH   FIRST DAY FOR OUTPUT
00054260  5655           2928          TRANSFER   ,TIMC
00054270  5656           2929  TIMF    ADVANCE    239             END OF THE FIRST DAY
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LINE#	STMT#	IF	DO	BLOCK#	*LOC	OPERATION	A,B,C,D,E,F,G	COMMENTS
00054280	5657			2930		TRANSFER	,TIMG	
00054290	5658				*			
00054300	5659				*			
00054310	5660				*			
00054320	5661			2931	D6G01	TRANSFER	,BDM9	
00054330	5662			2932	D6G02	TRANSFER	,BDM8	
00054340	5663			2933	D8G03	TRANSFER	,BDM8	
00054350	5664			2934	D8G04	TRANSFER	,BDM9	
00054360	5665			2935	D6G05	TRANSFER	,BDM9	
00054370	5666			2936	D6G06	TRANSFER	,BDM9	
00054380	5667			2937	D8G07	TRANSFER	,BDM3	
00054390	5668			2938	D8G08	TRANSFER	,BDM9	
00054400	5669			2939	D6G09	TRANSFER	,BDM8	
00054410	5670			2940	D6G10	TRANSFER	,BDM9	
00054420	5671			2941	D8G11	TRANSFER	,BDM8	
00054430	5672			2942	D8G12	TRANSFER	,BDM8	
00054440	5673			2943	D6G13	TRANSFER	,BDM8	
00054450	5674			2944	D8G14	TRANSFER	,BDM9	
00054460	5675			2945	D8G15	TRANSFER	,BDM3	
00054470	5676			2946	D8G16	TRANSFER	,BDM8	
00054480	5677			2947	D8G17	TRANSFER	,BDM8	
00054490	5678			2948	D6G18	TRANSFER	,BDM8	
00054500	5679			2949	D8G19	TRANSFER	,BDM8	
00054510	5680			2950	D8G20	TRANSFER	,BDM8	
00054520	5681			2951	D8G21	TRANSFER	,BDM8	
00054530	5682			2952	D8G22	TRANSFER	,BDM8	
00054540	5683			2953	D8G23	TRANSFER	,BDM9	
00054550	5684			2954	D8G24	TRANSFER	,BDM9	
00054560	5685			2955	D8G25	TRANSFER	,BDM8	
00054570	5686			2956	D8G26	TRANSFER	,BDM8	
00054580	5687			2957	D8G27	TRANSFER	,BDM8	
00054590	5688			2958	D8G28	TRANSFER	,BDM8	
00054600	5689			2959	D8G29	TRANSFER	,BDM3	
00054610	5690			2960	D8G30	TRANSFER	,BDM8	
00054620	5691			2961	D8G31	TRANSFER	,BDM8	
00054630	5692			2962	D8G32	TRANSFER	,BDM3	
00054640	5693			2963	D8G33	TRANSFER	,BDM8	
00054650	5694			2964	D8G34	TRANSFER	,BDM9	
00054660	5695			2965	D8G35	TRANSFER	,BDM3	
00054670	5696			2966	D8G36	TRANSFER	,BDM9	
00054680	5697			2967	D8G37	TRANSFER	,BDM8	
00054690	5698			2968	D8G38	TRANSFER	,BDM9	
00054700	5699			2969	D8G39	TRANSFER	,BDM8	
00054710	5700			2970	D8G40	TRANSFER	,BDM3	
00054720	5701			2971	D8G41	TRANSFER	,BDM9	
00054730	5702			2972	D8G42	TRANSFER	,BDM8	
00054740	5703			2973	D8G43	TRANSFER	,BDM3	
00054750	5704			2974	D8G44	TRANSFER	,BDM3	
00054760	5705			2975	D8G45	TRANSFER	,BDM3	
00054770	5706			2976	D8G46	TRANSFER	,BDM9	
00054780	5707			2977	D8G47	TRANSFER	,BDM3	
00054790	5708			2978	D8G48	TRANSFER	,BDM3	
00054800	5709			2979	D8G49	TRANSFER	,BDM3	
00054810	5710			2980	D8G50	TRANSFER	,BDM3	
00054820	5711			2981	D8G51	TRANSFER	,BDM3	
00054830	5712			2982	D8G52	TRANSFER	,BDM8	

APPENDIX B

Source Code for Support Equipment Option for Version 5 Mod 2.

FILE: RTNL GPSS A1 MMDS VM/SP CONVERSATIONAL MONITOR SYSTEM

ADU 3503

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*                                        06/35)
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***** PAGE NLN - IMA STORAGE TEST *****
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NLNLG MARK      14PF
      ASSIGN    51,FN$PTR17,PH   IDENTIFY STORAGE   3724RC-NEXT 16 LINE
      ASSIGN    30,PR,PB         TUCK AWAY THE OLD PRIORITY
      TEST E    PH0,104,NLNLM        104 IS A 7426 RADAR
      SPLIT     1,KTSAA,,35PB,51PH,15PF    COPY TO RTS ROUTINE
NLNLM TEST E    PH29,2,NLNLA     IS THIS AN XREP?
      PRIORITY  125              MAKE IT REALLY ZIP ALONG
NLNLH TEST E    PH22,0,NLNLF     *1* INDICATES AN NRR
      QUEUE     REPT1            **TI DELAY
      ASSIGN    15,V$PNDC,PF     ASSIGN PROD. CONT. TIME TO MA
      SAVEVALUE NUT1+,1,XH        TOTAL NO. OF TI ENTRIES
      SAVEVALUE TOT1+,PF15,XF     TOTAL THE TI TIME
      ADVANCE   PF15             ADVANCE BY TI DELAY
      DEPART    REPT1            **TI DELAY
      TEST L    RN1,FN$AMPP,NLNLK IS THERE ANY AMP?
      QUEUE     AMP              $$$AMP.TIME
      ASSIGN    15,V$AMPI,PF     ASSIGN AMP DELAY TIMES
      SAVEVALUE NOAMP+,1,XH      TOTAL NO.OF AMP ENTRIES
      SAVEVALUE TOAMP+,PF15,XF   TOTAL AMP TIME
      ADVANCE   PF15             ADVANCE BY AMP TIME
      DEPART    AMP              $$$AMP TIME
NLNLK QULUE     GSE
      ASSIGN    15,V$AMGSE,PF    ASSIGN GSE DELAY TO MA
      SAVEVALUE NUGSE+,1,XH      TOTAL NO. OF GSE ENTRIES
      SAVEVALUE TOGSE+,PF15,XF   TOTAL THE GSE TIME
      ADVANCE   PF15             ADVANCE BY GSE TIME
NLNLI QUEUE     PH51             WAIT FOR MECHANICS
      ENTER     PH51,PB13        ENTER IMANC, BASED ON MECHANICS REQUIR
      DEPART    PH51             NO MORE WAIT
      ADVANCE   PH36             ACTUAL REPAIR (EMT) + 30% ADMIN DELAY
      LEAVE     PH51,PB13        JOB FINISHED, RELEASE MECHANICS
      DEPART    GSE                GET TOTAL SHOP TIME, INC ENT
      ASSIGN    13,MP14PF,PF         PUT TAT WHERE WE CAN CARRY IT BACK
      SAVEVALUE XON,FN$PTR13,XH  DESIGNATE XON IN TAT MATRIX
      TEST E    PB29,1,NLNLZ     IF IT'S NOT 1, IT'S XREP
      TEST E    PB22,1,NLNLY     IF IT'S NOT 1, IT'S A REPAIR
      TABULATE  NRR
      MSAVEVALUE TAT+,XH$RDW,5,1,MX  COUNT THE NRR ACTIONS
      MSAVEVALUE TAT+,XH$RDW,6,MP14PF,MX ADD THE TAT TIMES
      MSAVEVALUE TAT,XH$RDW,7,V$AVTNR,MX CALL. THE NRR TAT AVERAGE***
      TRANSFER   ,NLNLM
NLNLY TABULATE  REP
      TABULATE  TREP
      MSAVEVALUE TAT+,XH$RDW,9,1,MX  COUNT THE REP.ITEMS
      MSAVEVALUE TAT+,XH$RDW,9,MP14PF,MX ADD THE TAT TIMES
      MSAVEVALUE TAT,XH$RDW,10,V$AVTR,MX CALL. THE REP TAT AVERAGE
      TRANSFER   ,NLNLA
NLNLZ TEST E    PB22,1,NLNLA     IF IT'S NOT 1, IT'S A REPAIR
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         TABULATE   XNRR
         MSAVEVALUE TAT+,XM$RDW,11,1,MX COUNT THE XNRR ITEMS
         MSAVEVALUE TAT+,XM$RDW,12,MP14PF,MX  ADD THE TAT TIMES
         MSAVEVALUE TAT,XM$RJW,13,V$AVTXN,MX  CALC. THE XNRR TAT AVERAGE
         TRANSFER   ,WLWL4
WLWLX    TABULATE   XREP
         TABULATE   TREP
         MSAVEVALUE TAT+,XM$RDW,14,1,MX COUNT THE XREP ITEMS
         MSAVEVALUE TAT+,XM$RDW,15,MP14PF,MX  ADD THE TAT TIMES
         MSAVEVALUE TAT,XM$RJW,16,V$AVTXR,MX  CALC. THE XREP TAT AVERAGE
WLWL4    TABULATE   TTAT
         MSAVEVALUE TAT+,XM$RDW,2,1,MX  ***COUNT THE ACTIONS BY 2 DIG. MOC
         MSAVEVALUE TAT+,XM$RDW,3,MP14PF,MX ***ADD THE TAT TIMES
         MSAVEVALUE TAT,XM$RJW,4,V$AVTAT,MX ***CALC. THE 2 DIG. TAT AVE.**
         PRIORITY   PB30              ***RESET THE ORIGINAL PRIORITY***
         ASSIGN     15,0,PF           RESET THE DELAY PARA. TO 0
WLWLA    TEST G     PB22,0,1MAAE      GO POST REPAIR STATS IN OLD ROUTINE
         TRANSFER   ,1MAAF            GO POST NRR STATS IN OLD ROUTINE
WLWLF    QUEUE      NRRT1             $$$T1 NRR DELAY
         ADVANCE    V$PROC AIRCRAFT TO PROD CONTROL
         DEPART     NRRT1             $$$T1 NRR DELAY
         QUEUE      GSE               OFF TO THE WORKBENCH
         ADVANCE    V$NRRGS   WAIT FOR GSE TO CHECK IT OUT
         TRANSFER   ,WLWL1            BACK TO WORKBENCH FOR CHECKOUT

RTSAA    ENTER      QUEUE           START KEEPING STATS ON DELAY
         ASSIGN     36,FN$REPR*1.2,PH    PHONEY-BALONEY MTTR
         TEST L     PH20,0,RTSAB          FALSE=ANALOG
         TEST G     PH20,3,RTSAB      TRUE=DIGITAL, FALSE=ANALOG
         ASSIGN     31,DIG,PB         LABEL IT AS DIGITAL
         TRANSFER   ,RTSAC            GO CHECK RTS AVAILABILITY
RTSAB    ASSIGN     31,ANN,PB         LABEL IT AS ANALOG
         GATE NU    ANN,RTSAD         TRUE=ANALOG SIDE NOT IN USE
         GATE FV    ANN,RTSAD         TRUE=ANALOG SIDE OPERATIONAL
         TRANSFER   ,RTSAE            GO TO THE REPAIR BENCH
RTSAC    GATE NU    DIG,RTSAF         TRUE=DIGITAL SIDE NOT IN USE
         GATE FV    DIG,RTSAF         TRUE=DIGITAL SIDE OPERATIONAL
RTSAE    LEAVE      QUEUE          ENOUGH WAITING, LET'S GET TO WORK
         ENTER      FIXIT             START COUNTING REPAIR STATS
         SEIZE      PB31              GO TO CORRECT SIDE OF TEST BENCH
         ASSIGN     32,FN$PT*19,PB       FIX RUN NO. IN RTS MATRIX
         ASSIGN     33,MB$RTS(PB32,4)*RN1/1000,PB    TIME TO FAULT-ISOLATE
         ADVANCE    MB$RTS(PB32,2)       RTS CONNECT TIME
         ADVANCE    MB$RTS(PB32,3)       RTS SELF-TEST TIME
         TEST L     PB34,1,RTSBC      FALSE=REPEATER, DUE TO AWP
         ADVANCE    PB33          END-TO-END TEST TIL DEFECT FOUND
         ADVANCE    MB$RTS(PB32,5)     DIAGNOSIS OF RTS RESULTS
         TEST L     RN1,850,RTS3D     15% CHANCE OF AWP PROBLEMS
RTSBC    ADVANCE    MB$RTS(PB32,6)       MTTR TIME
         ADVANCE    MB$RTS(PB32,4)-PB33  REMAINING END-TO-END TEST
         ADVANCE    MB$RTS(PB32,3)     RTS SELF-TEST TIME
         ADVANCE    MB$RTS(PB32,4)     END-TO-END CHECK-OUT
         ADVANCE    MB$RTS(PB32,7)       RTS DISCONNECT TIME
         RELEASE    PB31              AND RELEASE BENCH FOR THE NEXT GUY
         LEAVE      FIXIT             STOP COUNTING REPAIR STATISTICS
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*       SPLIT     1,NLNLA          POST STATS IN MAIN ROUTINE
        TEST L    RN3,850,RTSAG     FALSE=SIDE IN USE FAILED
        TEST G    RN3,11,RTSAH      FALSE=CENTRAL SYSTEM FAILURE
*                           NOTHING FAILED, SO SEE IF WE SHOULD SHUT DOWN
        TEST E    0,XB$DOWN,RTSAY    FALSE = THE OTHER SIDE IS DOWN
        TEST L    PB31,1,RTSAI        FALSE = SO UNLINK AN ANALOG
        TRANSFER  ,RTSAL                 GO UNLINK A DIGITAL
RTSAY   GATE FV   DIG,RTSAB          TRUE = DIG IS UP, ANN IS DOWN
RTSAV   TEST G    BV$ANND,0,RTSAL    FALSE = DON'T REPAIR, GO UNLINK DIG
        TRANSFER  ,RTSAJ              SHUT DOWN DIG TO REPAIR ANN
RTSBB   TEST G    BV$DIGD,0,RTSAI    FALSE = DON'T REPAIR, GO UNLINK ANN
        TRANSFER  ,RTSAJ              SHUT DOWN ANN TO REPAIR DIG
RTSAL   GATE NU   DIG,RTSAT           MAKE SURE NO INTERRUPTS ARE THERE
        UNLINK    DIGX,RTSAE,1,,,RTSAJ   IF NO XREP, GET A ROUTINE
        TERMINATE                    TERMINATE IN THIS CASE MEANS RFI
RTSAJ   UNLINK    DIGR,RTSAE,1         UNLINK A ROUTINE DIGITAL
        TERMINATE                      THAT'S A WRAP
RTSAI   GATE NU   ANN,RTSAT           MAKE SURE NO INTERRUPTS ARE THERE
        UNLINK    ANNX,RTSAE,1,,,RTSAK   IF NO XREP, GET A ROUTINE
        TERMINATE                    NO ESCAPE, YOU'RE FINISHED
RTSAK   UNLINK    ANNR,RTSAE,1         UNLINK A ROUTINE ANALOG
        TERMINATE                    AND THAT'S THE LAST ACT FOR YOU
RTSAT   TERMINATE                    INTERRUPTS CONFUSED US
RTSAG   SAVEVALUE DOWN+,1,XB         ADD 1 TO THE SIDES DOWN COUNT
        TEST G    XB$DOWN,1,RTSAM     TRUE=BOTH SIDES ARE DOWN
        FUNAVAIL  ANN                MAKE SURE BOTH ARE CLOSED OFF
        FUNAVAIL  DIG
        ENTER     SEFIX                 BENCH REPAIR STATS
        ADVANCE   PH36*XB$DOWN       REPAIR BOTH SIDES OF THE EQUIPMENT
        LEAVE     SEFIX                 BENCH REPAIR STATS
        TRANSFER  SBR,RTSAU,43PH          GO POST SE REPAIR STATS
RTSAP   FAVAIL    ANN                TURN ON THE TEST STATION
        FAVAIL    DIG
        SAVEVALUE DOWN,0,XB         BOTH SIDES ARE NOW WORKING
        SPLIT     1,RTSAI            GO UNLINK AN ANALOG REPAIR,
        TRANSFER  ,RTSAL                AND A DIGITAL REPAIR TOO
RTSAM   TEST L    PB31,2,RTSAN       TRUE=ONLY DIGITAL SIDE DOWN
        FUNAVAIL  DIG                TURN OFF THE DIGITAL SIDE
RTSAM   TEST E    BV$DIGD,0,RTSAQ    FALSE=SHUT DOWN & REPAIR
        TERMINATE                 NOTHING TO DO, SO GO AWAY
RTSAQ   FUNAVAIL  ANN                SHUT DOWN THE ANALOG SIDE
        ENTER     SEFIX                 BENCH REPAIR STATS
        ADVANCE   PH36                SO WE CAN FIX THE DIGITAL SIDE
        LEAVE     SEFIX                 BENCH REPAIR STATS
        TRANSFER  SBR,RTSAU,43PH          GO POST REPAIR STATS
        TRANSFER  ,RTSAP               THEN GO TURN IT ON
RTSAN   FUNAVAIL  ANN                TURN OFF THE ANALOG SIDE
RTSAX   TEST E    BV$ANND,0,RTSAQ    FALSE=SHUT DOWN & REPAIR
        TERMINATE                 NOTHING TO DO, SO GO AWAY
RTSAQ   FUNAVAIL  DIG                SHUT DOWN THE DIGITAL SIDE
        ENTER     SEFIX                 BENCH REPAIR STATS
        ADVANCE   PH36                SO WE CAN FIX THE ANALOG SIDE
        LEAVE     SEFIX                 BENCH REPAIR STATS
        TRANSFER  SBR,RTSAU,43PH          GO POST REPAIR STATS
        TRANSFER  ,RTSAP               THEN GO TURN IT ON
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RTSAH  TEST E     X$SDOWN,J,RTSAZ      TRUE = BOTH SIDES ARE FUNCTIONAL
       FUNAVAIL   ANN                  SHUT DOWN ONE SIDE
       FUNAVAIL   DIG                   SHUT DOWN TOGETHER
       ENTER      SEFIX                  START REPAIR STATS
       ADVANCE    PH36                   REPAIR CENTRAL SYSTEMS
       LEAVE      SEFIX                  END REPAIR STATS
       TRANSFER   SBR,RTSAU,43PH          GO POST REPAIR STATS
       FAVAIL     ANN                     TURN ON ONE SIDE
       FAVAIL     DIG                      TURN ON TOGETHER
       SPLIT      1,RTSAI                 GO UNLINK AN ANALOG
       TRANSFER   ,RTSAL                  ... AND A DIGITAL TOO
RTSAZ  GATE FV    DIG,RTSBA            TRUE = DIG IS UP, ANN DOWN
       FUNAVAIL   DIG                 TURN OFF DIG, REPAIR CENTRAL SYSTEM
       ENTER      SEFIX                 START REPAIR STATS
       ADVANCE    PH36                   REPAIR CENTRAL SYSTEM
       LEAVE      SEFIX                   END REPAIR STATS
       TRANSFER   SBR,RTSAU,43PH          GO POST REPAIR STATS
       FAVAIL     DIG                   TURN DIG BACK ON
       TRANSFER   ,RTSAV      SEE IF WE TURN OFF DIG TO REPAIR ANN
RTSBA  FUNAVAIL   ANN                  TURN OFF ANN, REPAIR CENTRAL SYSTEM
       ENTER      SEFIX                 START REPAIR STATS
       ADVANCE    PH36                   REPAIR CENTRAL SYSTEM
       LEAVE      SEFIX                 END REPAIR STATS
       TRANSFER   SBR,RTSAU,43PH          GO POST REPAIR STATS
       FAVAIL     ANN                     TURN ANN BACK ON
       TRANSFER   ,RTSBB      SEE IF WE TURN OFF ANN TO REPAIR DIG
RTSAD  TEST E     PB29,2,RTSAR            TRUE=ANALOG XREP
       LINK       ANNX,FIFO               LINK ANALOG XREP
RTSAR  LINK       ANNR,FIFO               LINK ANALOG ROUTINE
RTSAF  TEST E     PB29,2,RTSAS            TRUE=DIGITAL XREP
       LINK       DIGX,FIFO               LINK DIGITAL XREP
RTSAS  LINK       DIGR,FIFO               LINK DIGITAL ROUTINE
RTSAU  MSAVEVALUE RPAIR,SC9,1,C1,MX        COL 1 = CLOCK TIME
       MSAVEVALUE RPAIR,SC9,2,PH36,MX           2 = REPAIR TIME
       MSAVEVALUE RPAIR,SC9,3,X$SDOWN,MX        3 = SIDES DOWN
       MSAVEVALUE RPAIR,SC9,4,CH57,MX           4 = DIGX CONTENTS
       MSAVEVALUE RPAIR,SC9,5,CH56,MX           5 = DIGR     "
       MSAVEVALUE RPAIR,SC9,6,CH59,MX           6 = ANNX     "
       MSAVEVALUE RPAIR,SC9,7,CH60,MX           7 = ANNR     "
       MSAVEVALUE RPAIR,SC9,8,PB31,MX           8 = DIG OR ANN
       MSAVEVALUE RPAIR,SC9,9,PH43,MX            9 = WHERE DID YOU COME FROM?
       TRANSFER   PH,43,1                    BACK TO WORK
RTSBD  ADVANCE    M$RTS(PB32,7)        RTS DISCONNECT TIME
       LEAVE      FIXIT             STICK IT OVER IN THE CORNER
       RELEASE    PB31
       TEST E     PH31,1,RTSBE
       SPLIT      1,RTSAL
       TRANSFER   ,RTSBF
RTSBE  SPLIT      1,RTSAI
RTSBF  ASSIGN     34,1,PH              SET AN ANF FLAG
       ADVANCE    480,300             AND WAIT FOR THE PARTS TO ARRIVE
       TRANSFER   ,RTSAA               BACK INTO THE REPAIR QUEUE
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END

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