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NPS Supply Requisition Database - interactive software as an alternative to written instructions.

Trotter, Hartwell T.

NAVAL POSTGRADUATE SCHOOL
Monterey, California

THESIS

NPS SUPPLY REQUISITION DATABASE - INTERACTIVE SOFTWARE AS AN ALTERNATIVE TO WRITTEN INSTRUCTIONS

by

Hartwell T. Trotter

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NPS Supply Requisition Database - Interactive Software as an Alternative to Written Instructions

by

Hartwell T. Trotter
Lieutenant Commander, U.S. Navy
B.S., High Point College, 1971
M.A., Pepperdine University, 1976
M.S., University of Southern California, 1980

Submitted in partial fulfillment of the
requirements for the degree of

MASTER OF SCIENCE IN INFORMATION SYSTEMS

from the

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March 1986

ABSTRACT

Procedures to execute specific activities are usually communicated in writing throughout large organizations. This thesis presents a prototype example of interactive software as an alternative to the promulgation of written instructions. The Naval Postgraduate School supply requisition generation process has been distilled into a single software package, the Supply Requisition Database (SRdb), which prepares requisition documents and maintains a local database of items ordered. Emphasis is placed upon ease of use and labor efficiency. Although limited initial testing of the software is reported, SRdb is offered primarily as a tool for further research of the concept.

THESIS DISCLAIMER

The reader is cautioned that computer programs developed in this research may not have been exercised for all cases of interest. While every effort has been made, within the time available, to ensure that the programs are free of computational and logic errors, they cannot be considered validated. Any application of these programs without additional verification is at the risk of the user.

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I. INTRODUCTION

A. PURPOSE

Each day military commands collectively promulgate thousands of instructions, notices, and orders which subordinates are expected to read, understand, and execute. Although the authors of these written guidelines strive for clarity, the onus to understand them is placed upon the addressee. With the proliferation of personal computers the potential now exists to achieve new dimensions of clarity and ease of understanding through the issuance of interactive software vice voluminous written instructions.

Due to its capability to present a series of screens of information, software may be viewed as a communication medium. It is somewhat unique in that the user may interact with the software, for example, requesting further 'help' or clarification of particular procedures. The software also may be used to prepare reports by querying the user for inputs according to a specific logic. No pretention is made that software is the appropriate medium for the promulgation of all instructions. In fact, it is quite probable that it is cost efficient in only a small percentage of situations.

The purpose of this paper is to examine and propose a software-oriented alternative to the current manual, instruction-driven supply requisition process at the Naval Postgraduate School (NPS), Monterey, CA. Although the model presented addresses specific details of the NPS requisition transactions, it is felt that the general concepts could be extrapolated easily to other locations which also have significant open purchase activity and a multitude of funding sources.

B. APPROACH

The current NPS requisition process was studied in detail by reviewing the NPS Supply Department Customer Service Manual [Ref. 1] and the applicable NPS Comptroller instruction [Ref. 2]. Several modifications to these written quidelines were discussed at a two hour requisition training seminar presented by the Supply Department for NPS personnel [Ref. 3]. Finally, a working knowledge of the current system was attained through the interviewing of several persons involved in various stages of the requisition process at NPS. In addition to gaining a better understanding of the precise operation of the current system, suggestions for improvement were solicited.

Thesis research visits were made to the Fleet Hospital Support Office, Alameda, CA, Naval Supply Center, Oakland, CA, and the Supply Automation Office at NAS Miramar, CA, to review general supply automation efforts throughout the Navy.

C. ASSUMPTIONS AND SCOPE

The primary thrust of this paper is to present an example of interactive software as an alternative to a written instruction. Although cost effectiveness will be briefly examined as a relevant issue, a complete cost/benefit analysis is considered to be outside the scope of this thesis.

A requisition may be viewed as a compilation of data elements such as nomenclature, stock number, quantity, shipping codes, etc., which pertain to the item being ordered. During the course of research, some data elements required on requisition documents appeared to be a duplication of information, and other codes were discovered to be meaningless in the NPS environment. Since it is not the purpose of this thesis to present an analysis of information and codes required on each requisition document, these problems will be left to others.

For the purposes of this paper, every element of information and code which is required by applicable instructions and manuals [Refs. 1,2] are assumed to be necessary and appropriate. It is recognized that some of these requisition forms are in DOD-wide usage, and therefore, they may utilize codes which perhaps have meanings in other environments. An argument may easily be made that a locally produced requisition form would be more responsive to the needs of NPS supply customers, however, this is also felt to be an issue which is outside the realm of this thesis.

It is important to note that this paper focuses upon the accurate generation of requisition documents via a session with interactive software, as opposed to reliance solely upon written instructions. There is no intent to present an analysis of the entire NPS requisition / purchase process. For further information the reader is referred to the bibliography, which cites several previous theses which have fully discussed these other issues concerning the design and analysis of the NPS supply system.

II. BACKGROUND

A. NPS REQUISITION SYSTEM CHARACTERISTICS

During FY 85, the NPS Supply Department processed over 17,000 requisitions with a total value in excess of $13,341,000. Due to the academic nature of its mission, the Naval Postgraduate School acquires a large percentage of its material via open purchase as opposed to reliance upon standard government stock sources. Less than 15% of FY 85 NPS requisitions were filled from standard stock, resulting in almost 15,000 open purchase actions valued at $12,900,000 [Ref. 4].

NPS is somewhat unique in the number of different funding sources available for locally generated requisitions. Aside from the normal departmental Operating Target (OPTAR) funds provided in the NPS Operations and Maintenance, Navy (O&MN) budget, large amounts of Reimbursable Funds (RF) (also called research funds) are provided by others commands which are sponsoring research work at NPS. This wide variety of funding sources will be found to introduce a degree of complexity in accurate generation of requisition documents.

The current NPS Supply requisition process appears to be a manual anachronism in the midst of a relatively computerized environment. At present, no phase of the requisition cycle has been touched by automation. This chapter will describe the present procedures for generation of NPS requisition documents.

B. REQUISITION OVERVIEW

Each NPS department has designated one or more personnel to serve as the focal point in preparing and tracking requisition documents. For academic departments this person is

usually a clerk/typist serving in a GS-3 to GS-5 billet. Persons desiring to order materials usually notify the department clerk, who prepares the requisition documents and keeps a record of the transaction. The form of the initial request to the department clerk varies from one department to the next, running the gamut from a phone call, to a xerox copy of an advertisement with items circled, to a type-written memorandum.

The department requisition clerk prepares the documents in accordance with the applicable local instructions [Refs. 1,2]. After the documents are prepared, the clerk will obtain the appropriate signature prior to routing out of the department for further action. See Figure 2.1.

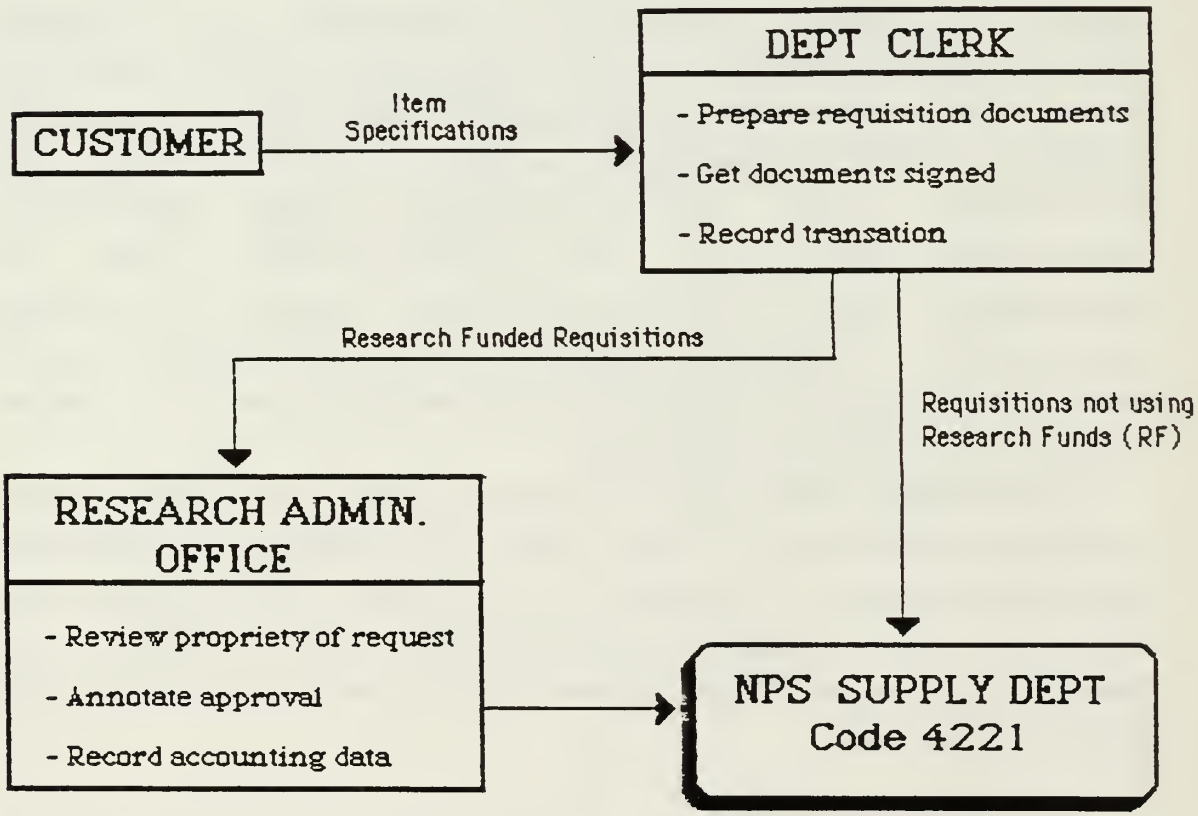


Figure 2.1 Typical Requisition Flow

If the requisition is to be funded from department OPTAR funding, the department chairman or his designated

representative will sign the documents before they are forwarded to supply. If the requisition is to be funded from Reimbursable Funds (RF), the documents will be signed by the professor controlling the specific RF account. RF-funded requisitions are sent to supply via the Research Administration Office which screens the request to ensure that the funds are being spent in accordance with any limitations placed by the sponsoring command.

C. TYPES OF REQUISITIONS

This section will describe the different types of requisitions and the associated documents.

1. Ready Supply Requests

To expeditiously satisfy customer requests, the most frequently requested consumable materials are stocked locally at the NPS Ready Supply Store (RSS). Materials stocked in the RSS for the convenience of the NPS customer are listed in the NPS RSS Catalog [Ref. 5]. Customers may obtain items from the RSS by forwarding a Material Requirements Document (Figure 2.2) to the RSS. RSS personnel will phone the exact total cost of the desired items back to the department requisitions clerk, who subsequently prepares a 'Money Value Only' DD-1348 (Figure 2.3) to be sent to the RSS.

The NPS Office Supply Issueroom (OSI) is a subunit of the RSS, where frequently used office materials, such as pens and folders, are available in limited quantities upon presentation of a locally produced office supply request form, Figure 2.4.

The OSI maintains a running tally of the value of items issued and 'bills' each department monthly. A department 'pays its bills' through issuance of a 'Money Value Only' DD-1348, as seen in Figure 2.3. The DD-1348 is an accounting document, and as such, it must be signed in the

MATERIAL REQUIREMENTS/ISSUE DOCUMENT (NON-MECHANIZED)
NAVFAC 8-11014/8 (9-67)
S/N 0108-LF-002-7000

NOTE: These is "No Carbon Required" paper. Tear off required number of copies BEFORE filling in.

SHEET 1 OF 1

1 JOB SEQUENCE W C. NO	2 JOB ORDER NO	3 PRIORITY	4 SHOP STORE NO.	5 REQUESTOR	6 DATE PREPARED	7 DATE MAT'L REQUIRED
			Code 54	Admin Sciences Dept	22 JAN 86	26 JAN 86

8 SHOP REPAIR ORDER NO	9 E S M SER NO	10 TYPE ISSUE	11 DELIVER TO (Other than Stores)
		☐ COUNTER ISSUE ☐ DMI ISSUE ☐ TURN IN	Bldg 330, Room 230, ext 2472

12 ITEM	13 CLASS/STOCK OR PART NUMBER	14 DESCRIPTION OF MATERIAL	15 STATUS	16 SUPPLY POINT	17 UNIT	18 QUANTITY	19 UNIT COST	20 (✓) NIS	20 (✓) NC	21 ORDER DOCUMENT NO. (NIS or NC only)	22 TOTAL COST
90	7520-00-079-0288	Magic Marker, Yellow			EA	24					
9N	5935-00-577-0287	Connector Plug, Female			EA	12					
11	0108-LF-501-0101	Price Adjustment Sheet			PD	18					
90	7520-00-281-5895	Stapler			EA	24					
90	7530-00-290-0617	Paper, Bond			CA	5					

23 TO STAGING (Date and Item No.)	24 AUTHORIZED BY (Signature)	25 RECEIVED BY (Signature)	26 ISSUED (Signature and Date)

Figure 2.2 Material Requirements Document

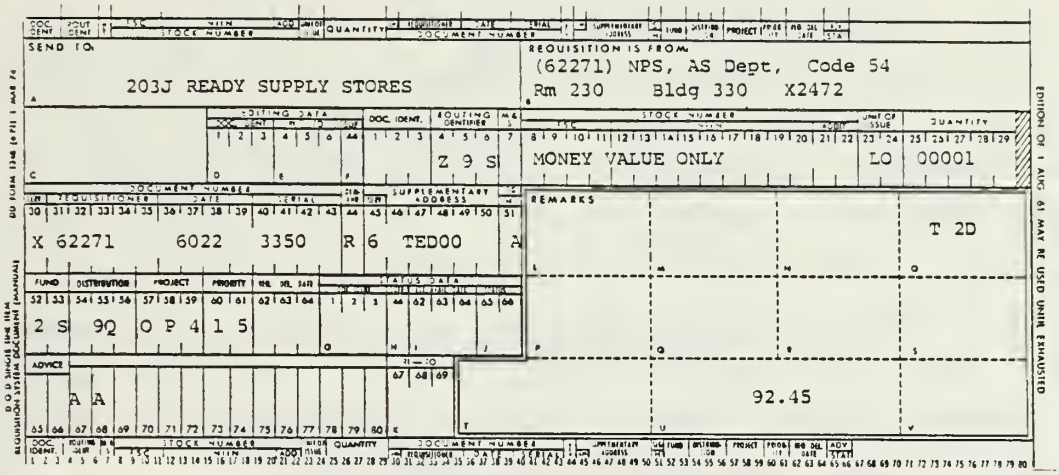


Figure 2.3 DD-1348 for Money Value Only

OFFICE SUPPLIES, TURN-IN OR REQUEST
11 NO NPS 4400/1 (6-69)

FROM: Admin Science Dept, Code 54, ext 2472
DATE: 22 JAN 86
X ISSUE
TURN-IN
TO: Supply Department, Office Supply Storeroom
CREDIT CARD NO.
APPROVED BY
DATE REQUIRED

NO.	STOCK NO. AND DESCRIPTION		U/I	QTY	ACTION	U/P	COST
1	STAPLER	7520-00-281-5895	EA	3		2.10	6.30
2	PAPER, BOND	7530-00-290-0617	RM	4		2.60	10.40

ISSUED BY | DATE | RECEIVED BY | TOTAL 16.70

OFFICE COPY

Figure 2.4 Office Supply Request Form

upper right corner by an individual designated by the department as authorized to obligate funds [Ref. 1: p. 4-6].

2. Standard Stock Requests

Many commonly used items have been purchased in volume, assigned National Stock Numbers (NSN), and stocked at various stockpoints throughout the nation by the Department of Defense (DOD) or the General Services Administration (GSA). All standard stock items are requisitioned using a DD-1348, Figure 2.5, coded in accordance with the Military Standard Requisitioning and Issue Procedure (MILSTRIP) [Ref. 6: pp. 1-62]. A separate DD-1348 must be used for each line item of standard stock.

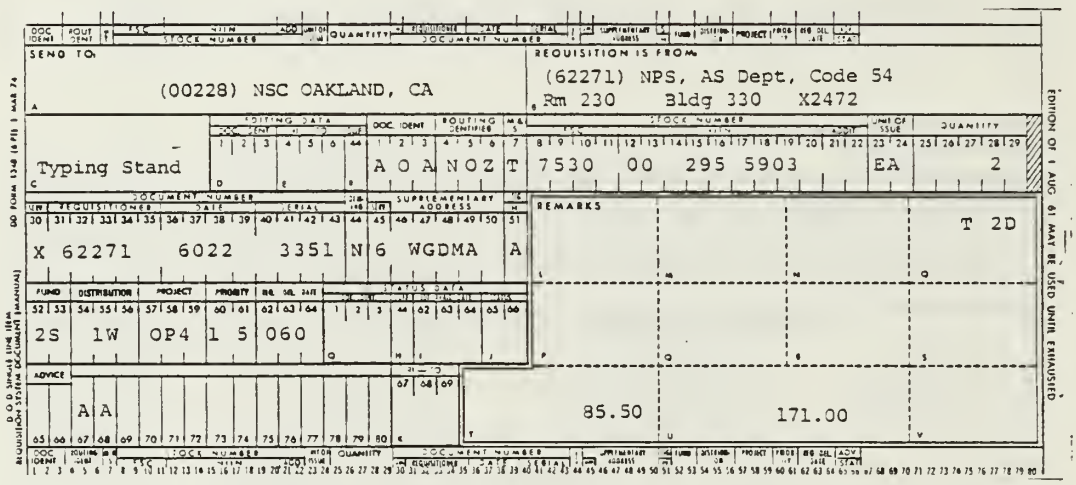


Figure 2.5 DD-1348 Standard Stock Requisition

3. Open Purchase

Items which are not available from standard stock may be purchased directly from commercial sources. Although departments are issued standard stock catalogs annually, it is not uncommon for items, which are available from standard stock, to be erroneously requested on an open purchase requisition. All open purchase requisitions are screened by the NPS Supply Department for availability in standard stock. If the same or 'like' item is found, the requisition is returned to the originator with a memorandum attached citing the apparent standard stock substitution nomenclature

and NSN. If the standard stock item is acceptable to the customer, the department requisition clerk will generate a new DD-1348 for the appropriate standard stock item. If it is felt that the standard stock alternative is inadequate, a justification memorandum to the NPS Supply Department must accompany the return of the original requisition.

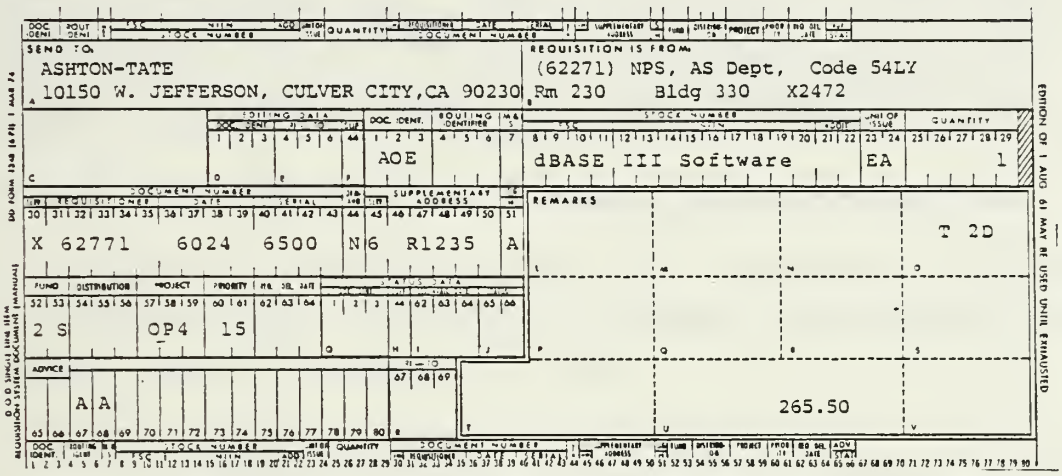


Figure 2.6 DD-1348 Open Purchase Requisition (single item)

An open purchase requisition for a single item may be made using a DD-1348 as seen in Figure 2.6. A Standard Form 36 (SF-36) is required to be completed if more than one item is requested, or if the item nomenclature and description of specifications will not fit in blocks 8-22 on DD-1348 [Ref. 1: p. 4-5]. An SF-36 (Figure 2.7) is viewed as a continuation of the DD-1348 (Figure 2.8) in these instances.

It is important to note that each DD-1348 or DD-1348/SF-36 combination may specify only one vendor. Items desired from different vendors require separate requisition documents.

For accounting purposes, items which are classified under different elements of expense must not be combined on a single requisition [Ref. 2: p. 3]. For example, an order for a personal computer and related software, even from a

Exception to SF 36
Approved by NARS 9/76

STANDARD FORM 36, JULY 1966 GENERAL SERVICES ADMINISTRATION FED PROC. REG (41 CFR) 1-16.101	CONTINUATION SHEET	REF NO. OF DOC. BEING CONT'D N62271/6030/5709	PAGE 1 OF 1

NAME OF OFFEROR OR CONTRACTOR
GENERAL DYNAMICS 3234 CONVAIR AVE SAN DIEGO, CA 92129

ITEM NO.	SUPPLIES / SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1	20Mbyte Tape Streamer Model # 123456 Version 9.3 Black Finish	3	EA	275.00	825.00
2	50Mbyte Hard Disk (IBM PC Compatible) 110 volts 5" X 9" X 2"	3	EA	500.00	1500.00
	TOTAL				2325.00

Figure 2.7 SF-36 Open Purchase Continuation

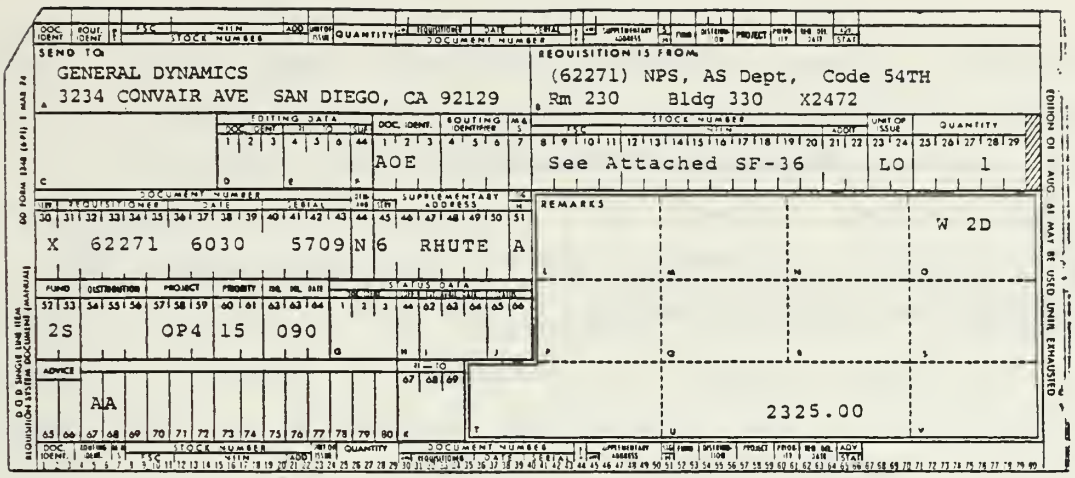


Figure 2.8 DD-1348 Open Purchase Requiring an SF-36

single vendor, requires at least two requisitions because the expense element codes for software and hardware are different [Ref. 2: encl(3) pp. 1-2].

a. Alternative Sources Memorandum

Recently publicized purchases of '$600 ashtrays' and '$900 hammers' have focused intense congressional scrutiny upon DOD procurement. In an attempt to ensure efficient use of tax dollars through competitive purchases, all open purchase requisitions with a total value exceeding $1,000 are now required to list a minimum of three alternative vendors for the requested materials. The alternative suppliers may be shown in the space remaining at the bottom of an SF-36, or a separate memorandum may be attached to the requisition [Ref. 3].

b. Sole Source Justification Memorandum

An exception to the Alternative Sources Memorandum occurs when the customer is able to document the requirement for a sole source procurement. Contracting officers are 'bound by law to seek competition' unless it can be demonstrated that valid reasons exist which preclude competition; therefore, requests for sole source procurement

actions are very carefully reviewed [Ref. 1: p. 4-27]. Central to the Sole Source Justification is a description of the critical features which limit its availability to a single source, as well as a certification that this is the only product or service which will adequately meet the intended use or application.

III. SRdb SOFTWARE DESCRIPTION

A. CONCEPT

The Supply Requisition Database (SRdb) software was written to permit the generation of primary requisition documents through an interactive computer session. The target user, a department requisition clerk, initiates the order process by answering a logical series of plain language queries. Since the algorithms for placing the appropriate codes in the proper boxes on the documents are written into the software, the user is freed from memorizing or copying cryptic codes. After all required questions have been answered, the user is prompted to load the proper blank document into the printer. Precise document formatting is provided in the SRdb software, eliminating all user format errors.

The SRdb program is designed to extract key elements from each document and maintain a requisition database which can be used at the department level in lieu of the current ad hoc recordkeeping. SRdb files are written to the selected disk drive as per the SRdb configuration file. The configuration file is used to maximize the user friendly nature of the software and free the user from repetitive typing of elements which remain constant on each requisition, such as department name, phone, building, etc. The beta (initial test) copy of the SRdb package was preconfigured for use in the NPS Administrative Sciences department.

B. SYSTEM REQUIREMENTS

SRdb is designed to run on an IBM or IBM compatible CPU with a minimum of 256K of memory and 2 disk drives. Although it will operate small databases on floppy disk drives, it is highly recommended that a hard disk drive be

utilized if any of the following requirements are exceeded on an FY basis:

- 50 accounts,
- 150 suppliers,
- 1500 requisitions, or
- 2000 line items.

Either a color or a monochrome monitor is acceptable. A friction feed printer is essential for printing of forms, however, a tractor feed printer is adequate for printing out reports and memorandums.

Since SRdb is essentially a dBASE III application program, a copy of dBASE III is required for program execution. The beta copy of SRdb is configured such that dBASE III and the SRdb program modules are resident on a single disk to be maintained in the 'A' disk drive. The database and index files are located on the 'B' drive. These drive assignments are optional and may easily be changed by modifying the configuration file. For further details concerning system sizing requirements, the reader is referred to Appendix C, 'Database Structure'.

C. FEATURES

The general features of the SRdb software are described below. The reader is referred to the SRdb User's Manual in Appendix B for detailed operational descriptions.

1. Document Generation

The two primary requisition documents, DD-1348 and SF-36, are readily generated by SRdb. SRdb handles complex code assignment in document boilerplate according to the type of requisition. Julian dates are automatically calculated, including leap year corrections. It also calculates the total value of the requisition required on the SF-36 and in block 'U' of the DD-1348 [Ref. 1: pp. 4-9 - 4-15].

When ready to print, the program pauses for the user to indicate that the proper form has been loaded into the printer. After the document has been printed, SRdb permits the user to immediately reprint it in case the printer was misloaded, or there were any mechanical malfunctions. Although both forms are available on continuous-feed stock, it is believed that it generally would be impractical to use such forms due to the variety of requisition types. For example, each SF-36 would necessarily be followed by a DD-1348 as described in Chapter Two, therefore, a friction feed printer is viewed as most practical. A single SRdb-generated DD-1348 or SF-36 document would be indistinguishable from the same document prepared by a clerk-typist on an electric typewriter, except perhaps by the lack of overstrike errors.

2. Accounts Database

SRdb allows the clerk to select the appropriate account from an on-line listing, eliminating the repetitive entry of account information. Due to the proliferation of RF projects throughout NPS, it is not uncommon for a single department to have access to 30 or more different funding accounts. SRdb records the following information for each account:

- Account name,
- Account number assigned by NPS Comptroller,
- Mail code of responsible individual,
- Type of funds (RF or not),
- Document serial number range assigned,
- Last document serial number used.

Professors who are responsible for multiple RF accounts have a separate listing for each account. A menu-driven option permits the user to easily add additional accounts upon receipt of accounting data from the NPS Comptroller.

Tracking document serial numbers for each account permits the automatic generation of the 14-character document numbers (columns 30-43 of DD-1348), which are a concatenation of the Unit Identification Code (UIC), Julian date, and the appropriate serial number. In SRdb, the entire process is now transparent to the user instead of a being a drill in precision typing.

3. Supplier Database

A database file of suppliers is maintained on-line to assist the user in completion of open purchase requisitions. The vendor's name, address, and phone number are filed for easy future reference. SRdb allows the clerk to select the appropriate supplier from an on-line listing, eliminating the repetitive entry of vendor information. If an order is made from a supplier not currently in the file, he is automatically added to the database for future reference. The supplier database also serves as an excellent source of alternative vendors, required in orders exceeding $1,000 value.

4. Requisition Database

A file is maintained containing the following items of information about each requisition:

- Requisition number,
- Priority code of requisition,
- Supplier,
- Date of requisition.

The requisition database is indexed by requisition number and account number for ease of report generation. Each requisition is represented by a separate entry in this file.

5. Item Database

In consonance with a database of Third Normal Form, as described by Kent [Ref. 7], a separate database contains

the items requisitioned. The database contains the following entries for each item:

- Description of item (up to 44 characters),
- Unit of issue,
- Quantity ordered,
- Unit price,
- Requisition number,
- Purchase order number,
- Receipt status.

The item database is indexed by both the requisition number and the purchase order number to facilitate item tracking and report production. This database also permits the tracking of which items have not been received. The original unit price may later be altered to accommodate price changes, which are a common occurrence.

6. Report Generation

A primary strength of SRdb is the ability to easily generate reports from the various databases. The user is given the option of displaying each report on the screen or dumping it to a printer. Although there is a virtually unlimited number reports and formats which could be produced, the beta version of SRdb provides the following two basic types of reports.

a. Requisition Summary

The user may select from these three requisition display options:

1) A single specific requisition.
2) All requisitions charged to a specific account.
3) All requisitions charged to a specific account between two dates.

As may be seen in Figure 3.1, only essential data elements are presented in requisition summaries. There is no attempt to display an exact copy of the original requisition.

Account Name: LAPATRA
Account #: RCAZ2
Requisition #: 53337003
Priority: C

To: ASHTON-TATE
10150 W. Jefferson
Culver City, CA 90230

#	Item	Unit Cost	Quant	Rcvd	P.O. #
1	dBASE III	$ 399.00	2	F	
2	Quick Code Mark IV	$ 345.00	1	F	87654321

Total items: 3 Total value: $ 1,143.00

Figure 3.1 Single Requisition Summary

b. Summary of Items Not Received

SRdb currently permits two types of displays of items ordered but not yet received. The user may elect to display all items outstanding for the entire department (Figure 3.2) or to restrict the list to items outstanding from a specific account (Figure 3.3). Both types of listings will show at the bottom the total number and value of items not yet received.

AS Dept

ITEMS NOT RECEIVED AS OF 12/11/85

#	Item	Req #	P.O. #	Quant
1	LOTUS 123 34LP45654323	53156504		1
2	Pedometer (model 158)	53227676		2
3	Nikon 35mm SLR Camera f1.4	53227676	53403454	1
4	Calculator 34543LP09867	53306005		1
5	DisplayComm Software	53336505	54129990	1
6	IBM VM-370 Oper. Handbook	53336505		1
7	dBASE III	53337003		2
8	Quick Code Mark IV	53337003		1
9	Amdek Color Monitor 13'	53337678		2
10	9 Meg Buffer Board	53365707		2
11	Calender 86 78756GG32234	53367005		3
12	Desk Pad 66543FU45435	53367702		1
13	Symphony Clone Vers #3	53385708		3
14	Sidekick Software	53387680		100
15	IBM AT Personal Comp.	53387703		1
16	Y-19 Communications Accessory Pack	53415709		1

Total items: 182 Total value: $ 64,656.62

Figure 3.2 Department Listing of Items Not Received

The potential exists to restrict the listings to requisitions generated within a specific range of dates.

For Account #: RCAZ2

ITEMS NOT RECEIVED AS OF 01/23/86

#	Item	Req #	P.O. #	Quant
1	dBASE III	53337003		2
2	Quick Code Mark IV	53337003		1
3	Calender 86 78756GG32234	53367005		3

Total items: 6 Total value: $ 1,151.61

Figure 3.3 Account Listing of Items Not Received

7. Alternative Sources Memorandum

As described in Chapter Two, a memorandum listing three alternative suppliers must accompany all open purchase requisitions exceeding $1,000 in value. SRdb permits the user to page through the on-line list of available suppliers, selecting the desired ones. The user is then prompted for two departmental points of contact for the requisition. The resulting memorandum (Figure 3.4) is produced without further user input.

From: AS Department 01/24/86

To: NPS Supply

Subj: Additional sources for requisition # 60243397

1. Due to the high value of subject requisition, the following multiple supply sources are submitted:

Monterey Bay Computerworks		Phone: 408 889-3177
1760 Fremont Blvd		
Seaside	CA	93955
IBM Government Products		Phone: 518 864-2169
321 Cypress Lane		
Oakmont	NM	43563
Trafalgar Systems		Phone: 808 549-2843
606 Alamoana Blvd		
Honolulu,	HI	96867

2. Departmental points of contact for this request are:

Greta Jones	2472
Bette Midler	3242

Figure 3.4 Alternative Sources Memorandum

IV. INITIAL SRdb PROTOTYPE FEEDBACK

This chapter will present a brief overview of the lessons learned from the limited trial operations of the beta copy of SRdb in the NPS Administrative Sciences Department. No pretention is made that these findings constitute a formal cost/benefit analysis of the concept, however, it is believed that they may serve a springboard for further research in the area. Feedback was obtained by direct observation of the requisition clerk users and post-use interviews.

A. GENERAL

The first trial of SRdb in the AS Department was conducted using a newly hired clerk who was unfamiliar with both the requisition process and personal computers. Her experience highlighted several procedural weaknesses in the software which were immediately corrected prior to further use.

Users with all levels of experience in the requisition arena appeared generally favorable toward the SRdb concept. The best reception was from those with 0 to 5 years of requisition experience. Although the user's enthusiasm for the SRdb concept appeared genuine, it is recognized that their knowledge of the presence of the software's author may have somewhat colored their reactions. All said that it was superior to the current system of learning, which consists primarily of literally copying previous requisitions, substituting the name, number, and price of the new item to be ordered.

B. REQUISITION CODES

The primary problem with the verbatim copying of previous requisition stubs is the inadvertent transcription

of inappropriate codes. Users have always found it easier to copy a sample, rather than research and understand the actual meanings of the codes. For example, after the issuance of the current NPS Customer Service Manual, the Supply Department noticed that the expense code 'T 2D' was being placed in block 'O' of virtually all DD-1348's. The cause was traced to the fact that all sample DD-1348's shown in the new manual used the 'T 2D' code as an example [Ref. 1: pp. 4-10 - 4-14]. Most requisition clerks were found to be blindly copying it, not really understanding why, but thinking that it should work [Ref. 8].

A valid argument may be made that it is unnecessary for clerks to understand the meaning of every single code on requisition documents. Indeed, six of the 22 codes found on a DD-1348 will never change for an NPS customer, therefore, it is acceptable for clerks to routinely copy those items. However, when a code is variable, under the current system the clerk should understand its significance.

Due to the internalization of code algorithms within the SRdb software, it was most favorably received by inexperienced personnel who had not yet learned the details of the requisition coding process. SRdb generates the appropriate codes based upon user response to plain language queries, thereby relieving the user from memory work or copying exercises.

C. DOCUMENT PRINTING

The actual printing of requisition documents by SRdb was initially viewed by all users with concern. Due to its small size, the DD-1348 requires precise character placement, and no one was comfortable with alignment of the forms in the printer. It is a process which one learns through trial and error. Since SRdb permits an unlimited number of immediate reprinting attempts, the skill is rather easily acquired. No one required more than four trials to print his or her first

requisition. A rapid learning curve for subsequent uses was discovered for nearly all users.

D. DATABASE USAGE

The notion of reliance upon an electronic database rather than the current '3-ring binder' system produced surprisingly mixed reviews. It was generally felt that unless the SRdb system was already running at the time a single requisition needed to be reviewed, it might be easier and faster to locate it in the current binder system. All agreed that SRdb was superior in the generation of summary reports of items not yet received, however, this was not viewed as a feature which would be in frequent demand in the AS Department. Everyone liked the concept of maintaining on-line files of suppliers and account data to avoid typing of redundant information on multiple requisitions.

SRdb was judged by some users to be weak in that the beta version requires all requisitions for a particular account to be generated via SRdb. In other words, it is difficult to 'juggle' the document serial numbers if a particular requisition is manually produced on a typewriter. This weakness could be overcome in two ways. An additional module could be created allowing the user to change the serial number of the next document, however, this has serious implications in terms of the ultimate integrity of the database. Alternatively, a department policy could be adopted requiring all requisitions to be generated by SRdb, thereby eliminating the possibility of conflicting manually generated document serial numbers.

V. IMPLEMENTATION CONSIDERATIONS

A. BENEFITS

In the case of SRdb, the following potential benefits may be derived from the issuance of interactive software instead of written instructions and manuals:

1. Requisitions may be generated more quickly and easily, requiring less effort and perhaps permitting a reduction in user labor expense.
2. The time required to train users to produce requisition documents may be significantly reduced.
3. SRdb permits the automatic generation of various department level requisition summary reports which may be of value to management, however are not now produced due to their labor intensity in a manual system.
4. A consistently higher quality of requisition document may assist the NPS Supply Department in providing better response to customers. Many common requisition coding and procedural errors would be eliminated, thereby, reducing the number of documents returned to users for correction.
5. SRdb's automatic generation of requisitions through a series of progressive screens may eliminate many of the user's telephone queries concerning procedural matters to the NPS Supply Department personnel, saving time for both.

Since only the last two of the five potential benefits would be enjoyed by the NPS Supply Department, it is legitimate to question whether it would be sufficiently in their interest to sponsor the implementation of an SRdb project. Although a majority of the benefits will be realized by other NPS departments, the bulk on the development and maintenance expenses probably would fall upon the Supply Department. This would call for a change in the typical institutional inertia, deeply entrenched in division of labor and turf considerations, which notes that 'we will tell them how to write a requisition, and we will process their finished document, but we are not going to write it for them.' In other words, despite the net potential benefit to the command as a whole, it would be natural for the

Supply Department to continue to publish written instructions, and let the customers in the other departments worry about reading, understanding, and executing them. Facing such natural barriers, if the Supply Department does not view benefits 4 and 5 as sufficient to warrant the expense from their viewpoint, it is probable that the concept represented by SRdb will require sponsorship from someone at a sufficiently high echelon within the command to be concerned with the overall common benefit.

B. COSTS

The current beta copy of SRdb required 450 hours of programming efforts by a relatively novice programmer. After software development, the maintenance phase continues to represent a substantial investment, frequently exceeding 50% of the total cost over the program's life-cycle [Ref. 9]. As requisition procedures are modified in the future, new versions of SRdb will require code alterations. SRdb may offer an advantage in that many modifications could remain transparent to the user, however, the costs of program changes must still be paid, probably by the originator. The concept would be for new versions of floppy diskettes to be issued in lieu of the promulgation of change notices to written instructions.

The disparity between media costs (diskette versus paper and ink) may not be as great as one might imagine. Now that diskettes may be procured in bulk for less than $1.00 per copy, the media costs are comparable and are considered to be a primary consideration.

Viewed from a system perspective, SRdb requires the use of substantial assets beyond the cost of the SRdb software. Command-wide implementation of SRdb would of necessity force a review of the availability and utilization levels of personal computers throughout the command. NPS is somewhat unique in that the proliferation of personal computers has

already enabled access to them in every department, however, it would certainly be a major consideration in a more diverse environment.

C. SRdb SCOPE

It should be recognized that SRdb extends well beyond the bounds required to provide a software implementation of the requisition process as currently described in the appropriate written references [Refs. 1,2,6]. The incorporation of a database capability in terms of a formal record keeping structure exceeds actions currently directed. The database features were included as a result of a survey of the record procedures of various departments.

One may question the wisdom of stipulating the form of department records when there has been no guidance previously given in this area. While no advantage has been conclusively proven supporting a requisition record system that is uniform command-wide, there is an appealing logic to having one group create a system which is automatically updated at the time of requisition generation with no additional effort by the user. This is as opposed to the laisse faire process of each department reinventing the 'record wheel' separately. Certainly a department could use SRdb for requisition preparation, choosing to ignore the SRdb-produced records, and maintaining its manual binder file system instead. In all likelihood, if a descendent of SRdb is ever formally implemented, the manual records will continue to be kept in parallel with SRdb until user confidence is fully gained.

VI. SUMMARY AND RECOMMENDATIONS

SRdb is presented as an example of interactive computer software as an alternative to written instructions. The concept, as embodied in the SRdb prototype, has been informally tested and successfully demonstrated to work in a closely controlled environment. Despite the appearance of high potential and the numerous common sense arguments which may be advanced in favor of software over written instructions, it is inappropriate to conclusively state that SRdb offers proof of cost efficiency or effectiveness of the concept. SRdb is offered as a tool for further research and analysis in this arena.

A. FUTURE ADAPTATIONS OF SRdb

SRdb may be viewed as an attempt to improve the human interface with the NPS supply requisition process without modifying the basic system. Although document generation is now automated by SRdb, the physical transmission of requisition data on paper stubs remains far less efficient and somewhat archaic when compared to other procedures which are readily available today. For example, an SRdb-like interface could easily electronically send the requisition to a host computer in the Supply Department, rather than produce paper stock which is manually routed. Supply procurement personnel could receive, review, and process requisitions on their terminals, eliminating enormous amounts of duplication in typing efforts. A 'read only' requisition supply status database could also be maintained on the NPS mainframe, accessible by modem or 3278 terminal from every department, eliminating substantial hours in answering routine status check phone calls.

Although current supply automation experts believe that the Navy is not yet ready for completely 'signatureless' electronic requisitions from the customer level, as a compromise, the system could permit automatic electronic transmission and processing of all requisition data elements to be followed by a simple signed memorandum citing each requisition [Refs. 10,11].

Organizations are just beginning to scratch the surface in realizing the potential of personal computers when teamed with the appropriate software. SRdb is a minor contribution to this abrasion process.

APPENDIX A

ABBREVIATIONS AND ACRONYMS

AS	Adminstrative Sciences
Beta	Initial Test Copy of Software
Char	Character
DBF	Database File
DOD	Department of Defense
FY	Fiscal Year
GSA	General Services Administration
MILSTRIP	Military Standard Requisition and Issue Procedure
NDX	Index File
NPS	Naval Postgraduate School
NSC	Naval Supply Center
NSN	National Stock Number
O & MN	Operations and Maintenance, Navy
OPN	Other Procurement, Navy
OPTAR	Operating Target
OSI	Office Supply Issueroom
RF	Reimbursable Funds
RSS	Ready Supply Store
SRdb	Supply Requisition Database
UIC	Unit Identification Code

APPENDIX B

SRdb USER'S MANUAL

Table of Contents

LIST OF SCREENS

I. TO THE NEW USER

The Supply Requisition Database (SRdb) program is designed to be easily used by a person with very little knowledge of the NPS Supply system. The menu-driven SRdb approach is best learned through experience. The purpose of this User's Manual is to serve as a reference guide if more details about a particular process are required.

Assuming that your copy of SRdb has been configured for your department, there is no need to read further. Simply follow your department's instruction for disk placement and start up SRdb. It is recommended that new users use a test database diskette for the first session, so that practice requisitions and reports may be generated with no penalties for mistakes. Enjoy....

II. START UP PROCEDURES

WELCOME TO THE NPS SUPPLY REQUISITION DATABASE

This program is designed to originate requisition documents (DD-1348s and SF-36s), as well as maintain a database of requisition status for a particular department. The system is designed for use by any personnel who are familiar with Naval Supply terminology, however, a detailed understanding of the decision matrix used in the generation of requisition documents is unnecessary.

WARNING - If the user fails to adhere to any warnings presented by the program, he does so at the risk of data loss.

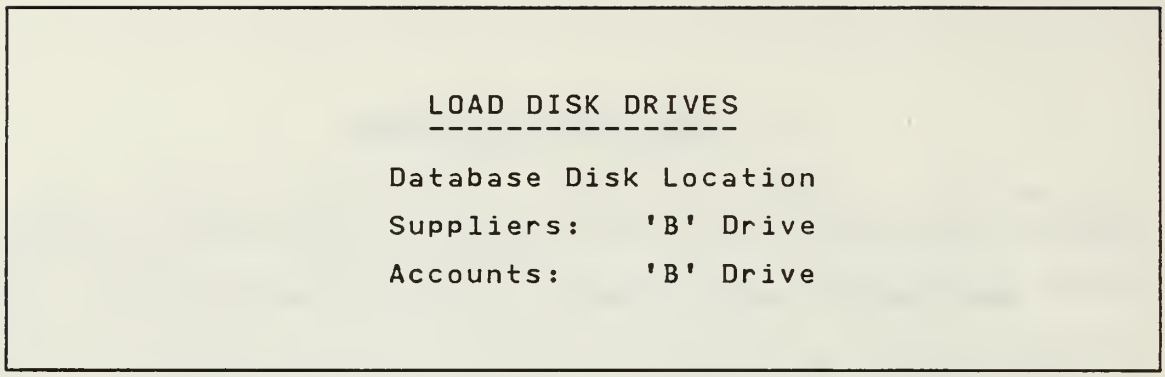
Disks should NEVER be removed from the drives until the program has been exited.

Screen 2.1 Welcome

The SRdb program is presented through a series of menus which are felt to be self-explanatory. This user's guide will present copies of actual screen displays. For example, Screen 2.1 is the first seen when the SRdb program is started. The space provided for user inputs would be seen as a cursor on the screen. In example screens in this manual, the cursor will be represented by an underline __. If the screen is demonstrating an example of the choice made by a user, it will show the selection made as an underline, e.g. Y would represent a user's input of 'Y'.

If this is the first time the program is being run in your department, it should be configured by someone familiar with dBASE III and the Program Maintenance Manual.

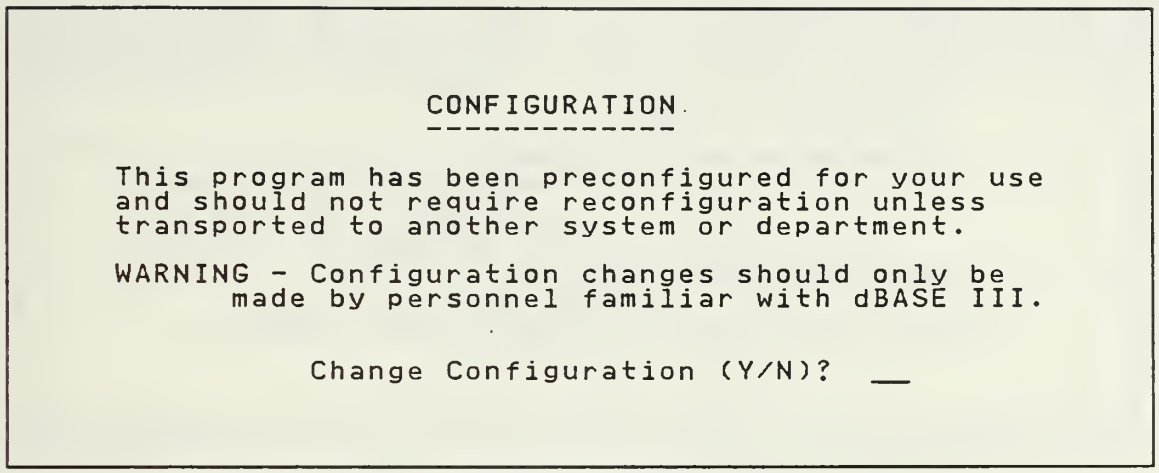
1. Turn on the computer & boot up DOS. If you don't know how to do this, get someone to do it for you, or read your computer instruction manual.
2. Assuming the program is configured for use in your department, load the program in accordance with the department's instructions. If none exist, then the program disk should be placed in the 'A' drive and the database disk placed in the 'B' drive.
3. Type 'ORDER'.
4. Follow instructions to 'Press a key to continue' until you see the Screen 2.2



Screen 2.2 Load Disk Drives

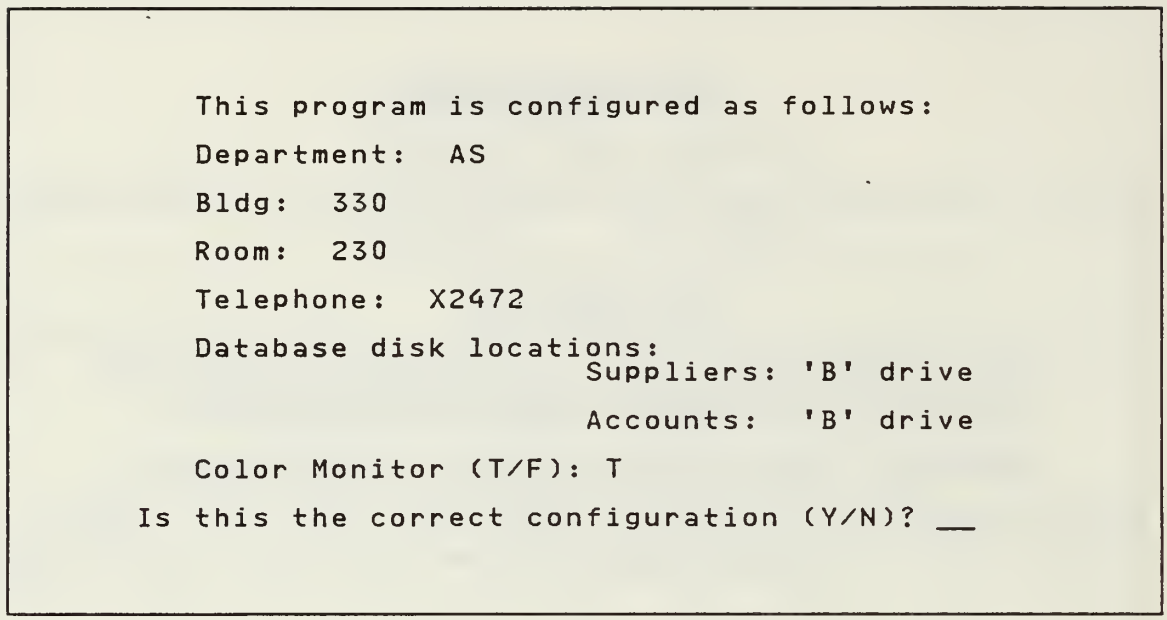
Ensure that the disk drives are properly loaded before proceeding! If you have loaded the disks in locations other than the locations now on the screen, this is the time to change them.

III. CONFIGURATION



Screen 3.1 Configuration Banner

Normally, the proper response to Screen 3.1 should be 'N'. The beta copy of SRdb has been preconfigured for the NPS Administrative Sciences Department. If you respond with a 'Y' to Screen 3.1, you will be given the opportunity to modify the default values shown on Screen 3.2. This process should be necessary only once per department.

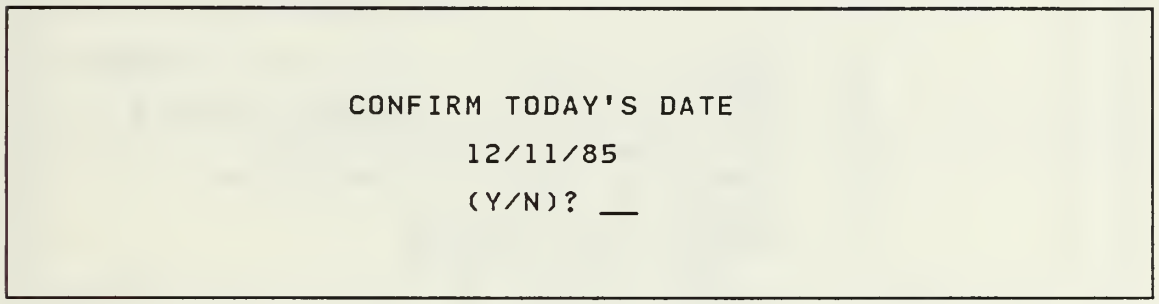


Screen 3.2 Configuration Modification

Responding to Screen 3.2 with a 'Y' will cause the displayed configuration to be saved to the program disk.

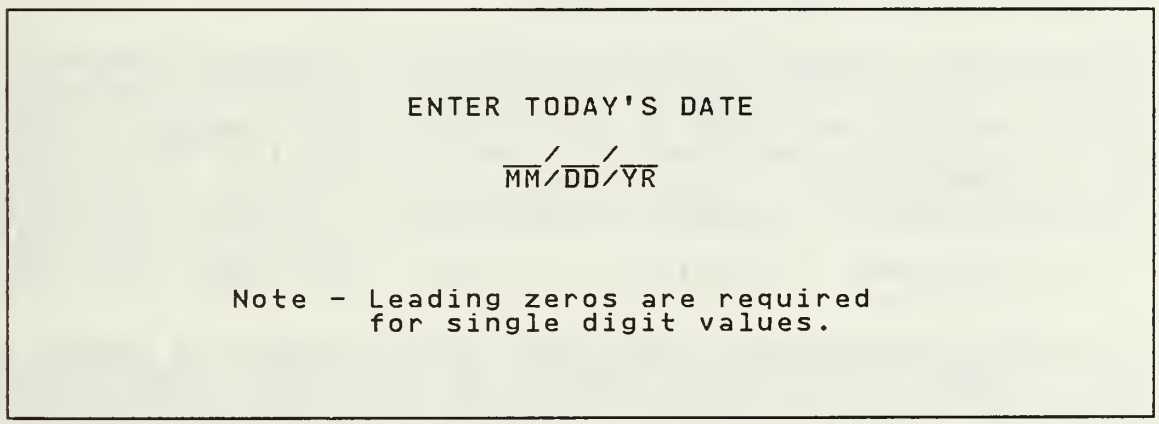
IV. DATE CONFIRMATION

Since the computer's system date may not have been correctly set, the opportunity is now presented to enter the desired date. This date will be used in dating all requisition documents and reports, therefore, it is important to ensure that it is correct.



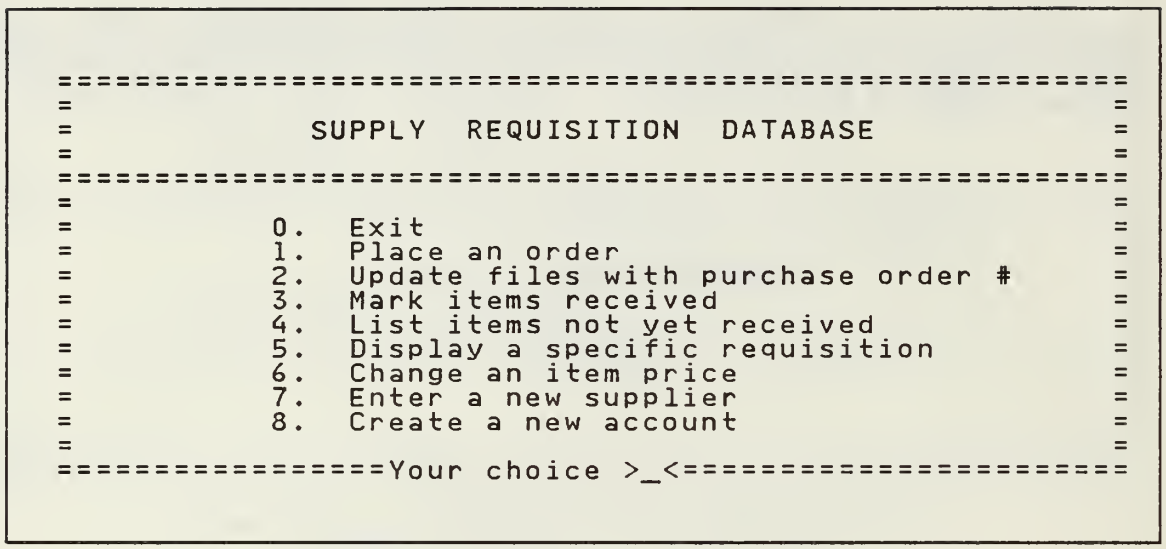
Screen 4.1 Confirm date

If the date shown in Screen 4.1 is correct, enter 'Y'. If you enter 'N', Screen 4.2 will allow you to change the date as you desire.



Screen 4.2 Enter Date

V. THE MAIN MENU



Screen 5.1 Main Menu

Screen 5.1 is a display of the SRdb Main Menu. The following is a description of the various menu options.

0) Quit and exit the program.

1) Place an order. Generates the appropriate requisition documents and places the order in the database.

2) Permits the entry of a purchase order number for each item when the purchase order information is received from supply.

3) Permits the marking of items which have been received.

4) Generates a listing of items which have not been received.

5) Displays a specific single requisition or a series of requisitions based upon a particular requisition number or account number. The requisitions displayed may be made subject to a range of dates of origin.

6) Permits the price of an item to be changed in the database. It does not regenerate requisition documents as this is generally unnecessary.

7) Allows a new supplier to be entered into the database.

8) Permits the creation of a new account when the appropriate information is received from the NPS Comptroller.

VI. COMMONLY USED PROCEDURES

There are several procedures which are used many times throughout the SRdb program. This chapter will discuss all procedures which are common to two or more major routines. For example, the procedures to select an account are the same for all six different types of requisitions, therefore, account selection is a procedure which will be discussed here.

A. ACCOUNT SELECTION

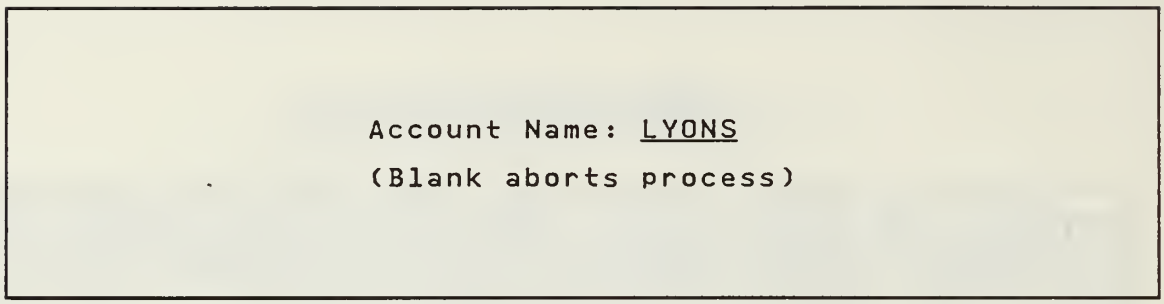
```
              SELECT AN ACCOUNT
       ------------------------------
       -    1.  By Account Name      -
       -    2.  By Account Number    -
       -    3.  Enter New Account    -
       -    4.  Return to Main Menu -
       ------------------------------

              Your choice:  1
```

Screen 6.1 Select an Account

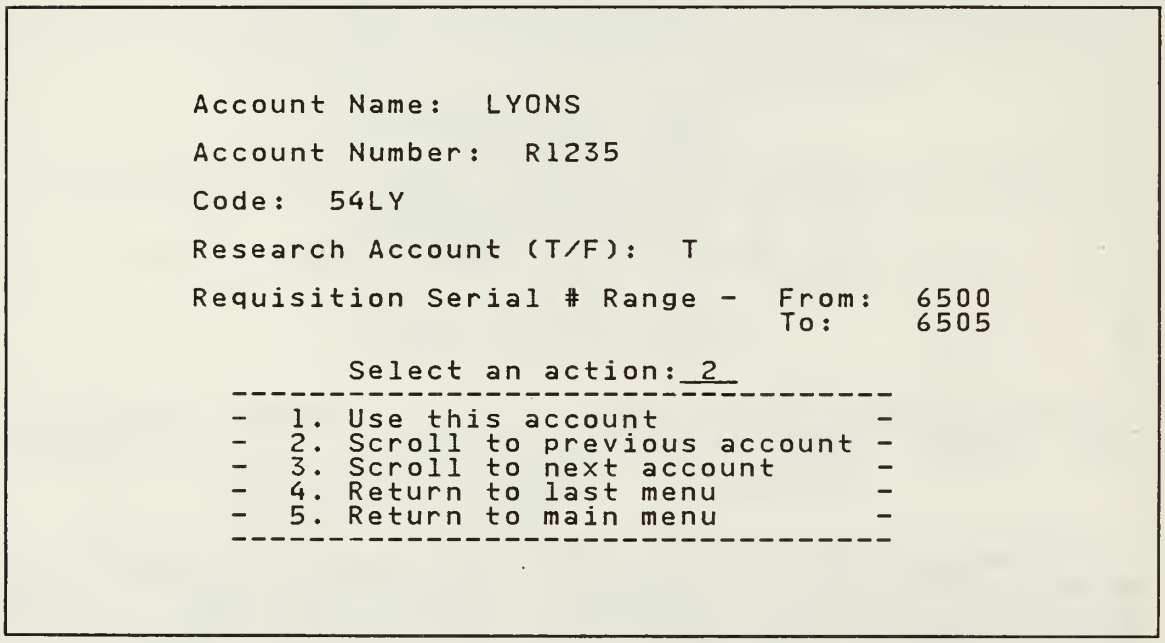
Many routines require the user to select a particular account for further activity. The desired account may be specified by either account name or account number. If the account is new, the option is given to create a new account. Since creation of a new account is also an option on the main menu, it will be discussed later. For purposes of the example at hand, it is assumed that the desired account is already on file, and the user chooses to specify it by name, yielding Screen 6.2

SRdb displays data on the 'LYONS' account in response to Screen 6.2. For user convenience, the name input is not sensitive to upper or lowercase. If no account having the desired name can be located in the database, the user is so informed and instructed to try again. The dBASE III search procedure allows for input of partial names, such as 'LY' instead of 'LYONS'.

Once the account is found, the user has several options as shown at the bottom of Screen 6.3. For purposes of this example, we have chosen to page back to the previous account in the database (files are alphabetically arranged by account name). This brings up the 'LAPATRA' account as seen in Screen 6.4.

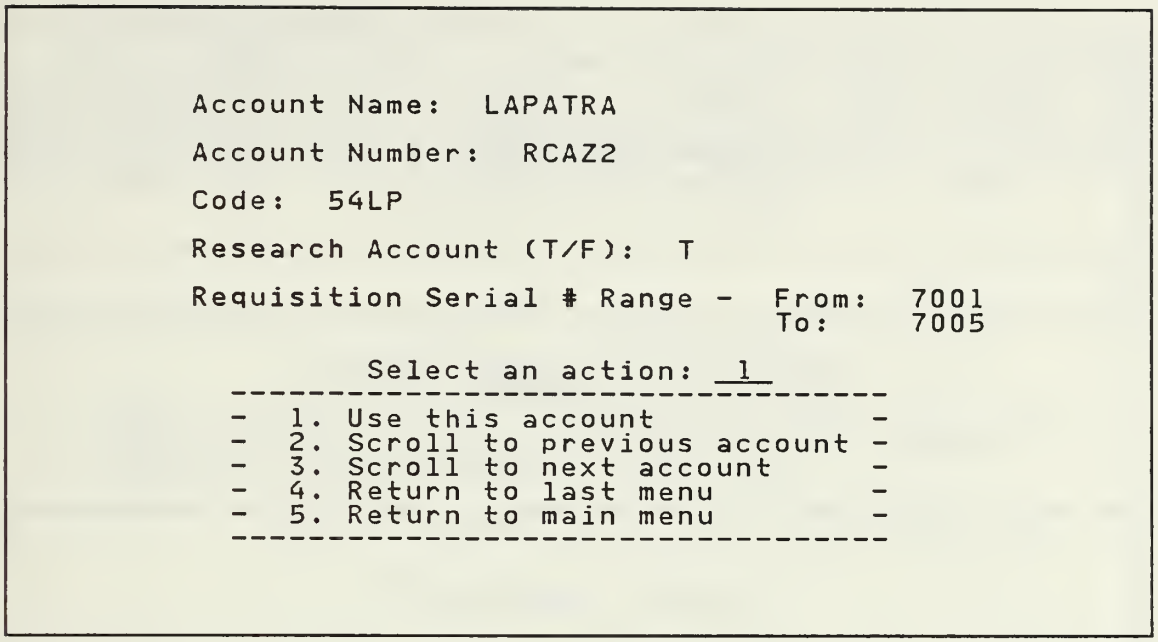


Screen 6.2 Selecting by Account Name



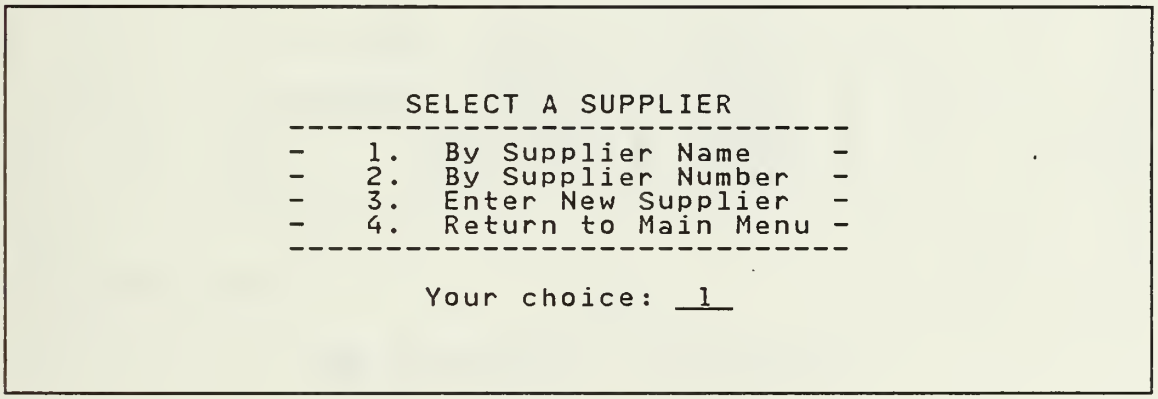
Screen 6.3 Scrolling to the Previous Account

The LAPATRA account displayed in Screen 6.4 is selected for use by choosing option '1' as shown.



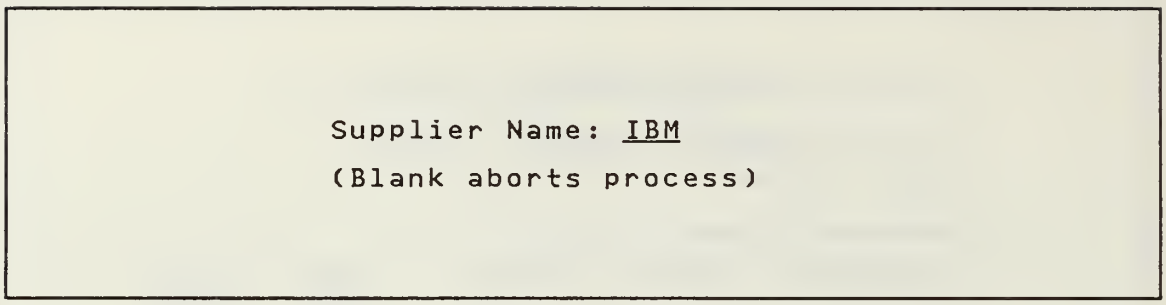
Screen 6.4 Selecting an Account for Use

B. SUPPLIER SELECTION

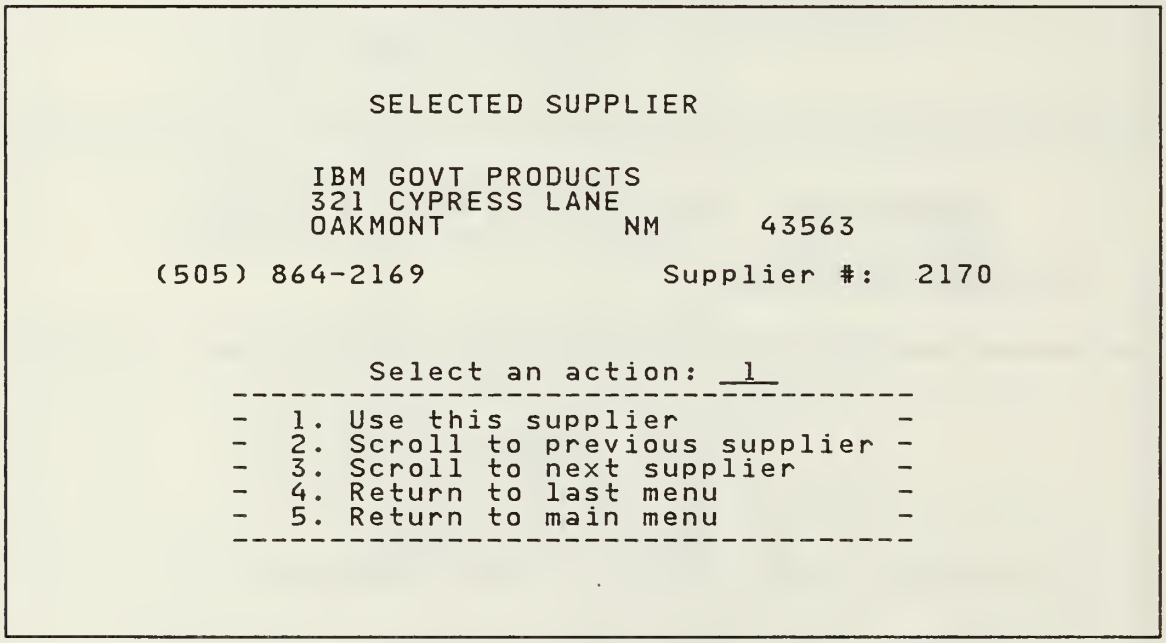


Screen 6.5 Select a Supplier

Many routines require the user to select a particular supplier for further activity. The desired account may be specified by either the supplier's name or the supplier number. If the supplier has never been used before, the option is given to place the 'new' supplier in the database. Since entering a new supplier is also an option on the main menu, it will be discussed later. For purposes of the example at hand, it is assumed that the desired supplier is already on file, and the user chooses to specify it by name, as in Screen 6.5. Since this process is nearly identical procedurally to selecting an account, a briefer example will be shown. The following screens will demonstrate the selection by 'name' of 'IBM' as the desired vendor.



Screen 6.6 Looking for IBM

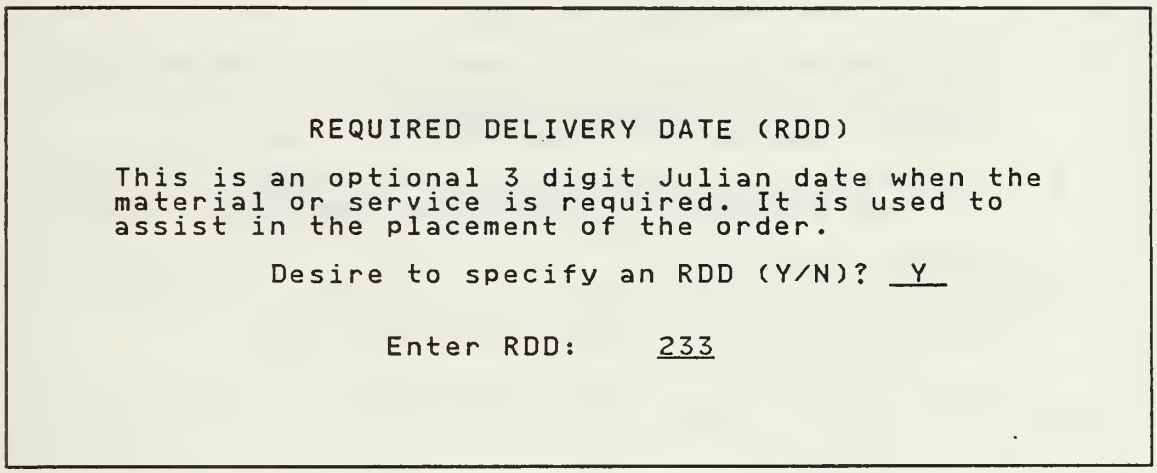


Screen 6.7 Selecting IBM

The IBM supplier displayed in Screen 6.7 is selected for use by chosing option '1' as shown. The supplier number shown is simply a number used by the database to keep track of the suppliers.

C. REQUIRED DELIVERY DATE

Every type of order, except $$ Reimbursement to the RSS and transportation of material, presents the user with the opportunity to specify a Required Delivery Date (RDD). As shown in Screen 6.8, specification of the RDD is optional. While there are certainly no guarantees, an RDD will assist the Supply Department personnel in serving your needs.



Screen 6.8 Required Delivery Date

D. ORDER PRIORITY

Three different order priorities are offered users, as shown in Screen 6.9, and a brief explanation of each priority is presented.

```
                    ORDER PRIORITY

A - Requirement is immediate and without the material
    required, the activity is unable to perform one
    or more of its primary missions.
    (Note: Requires NPS Superintendent approval)

B - Requirement is immediate or it is known that such
    a requirement will occur in the immediate future.

C - Routine requirement.

    Select appropriate order priority:  C
```

Screen 6.9 Order Priority

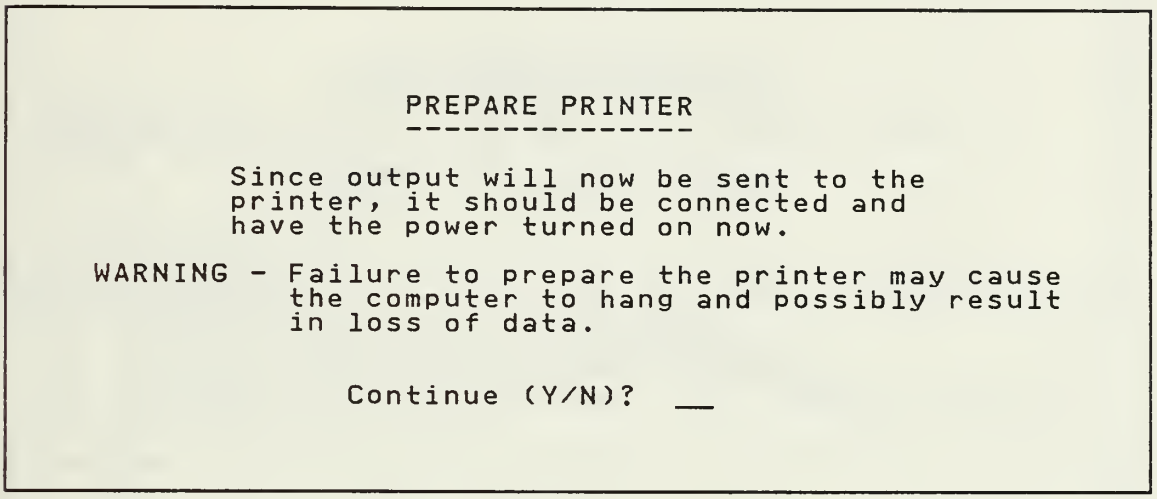
Most NPS requisitions are properly classified as priority 'C'. Occasionally sufficient justification is present to rate a requisition priority 'B'. Note that if priority 'A' is selected, Screen 6.10 will be displayed. If the user chooses priority 'A' and indicates that approval of the NPS Superintendent has not been obtained, the opportunity will be given to reselect a priority. For more information, phone the Issue/Receipt Control Branch at ext. 2012.

```
                      NOTICE
                      ------

          A priority code of 'A' requires
            NPS Superintendent approval.

          Have you obtained approval (Y/N)? __
```

Screen 6.10 Priority 'A' Warning

E. PREPARE PRINTER

Screen 6.11 will appear as a warning anytime output is being directed to the printer. If the user opts not to continue, the current procedure will be aborted, and the Main Menu, Screen 5.1, will be displayed. If a requisition was being prepared, all data entered for that requisition will be lost.

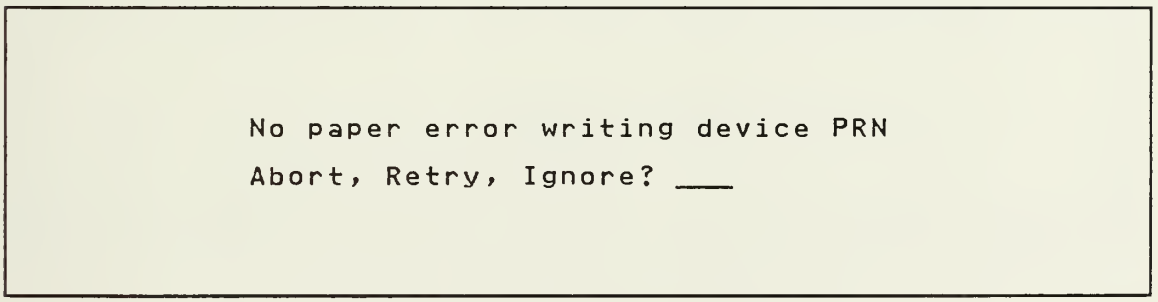


Screen 6.11 Prepare Printer Warning

If the user continues past this screen, and the printer is not powered, the system may hang. This will result in the loss of the most recently entered data and may actually damage data files, rendering them unreadable.

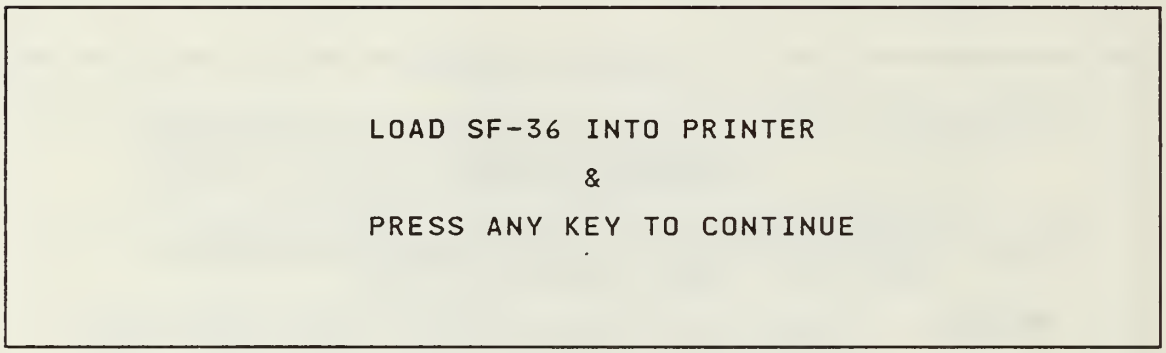
If Screen 6.12 is displayed, ensure the printer is properly powered, connected, and loaded. The correct response to Screen 6.12 is an 'R'. If the printer is now prepared to print, the process will continue.

WARNING - If the user responds to Screen 6.12 with an 'A', the SRdb program will be aborted, the user returned to DOS, and data files may be damaged.

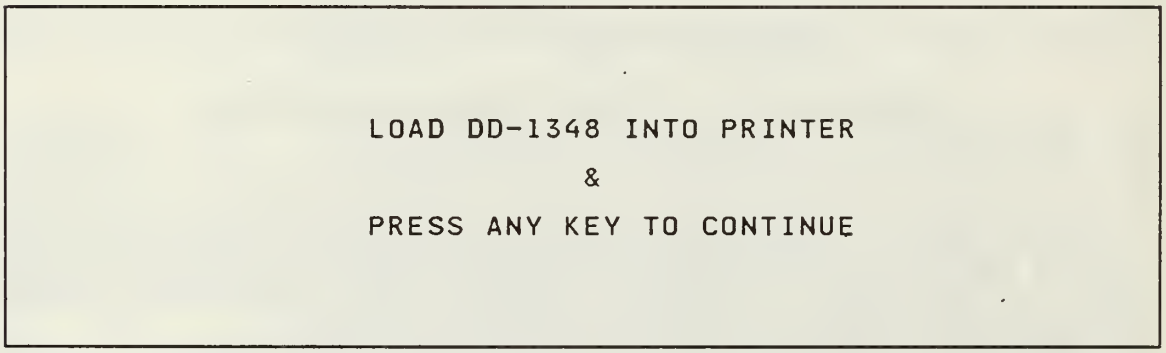


Screen 6.12 Device Error

Screens 6.13 and 6.14 are self-explanatory examples of displays which prompt loading of the correct form. The printer should be carefully loaded such that the document is positioned to print on the very first line. Forms loaded prior to the proper screen prompt may be ejected as the printer is addressed by the program.



Screen 6.13 Load SF-36



Screen 6.14 Load DD-1348

VII. TO PLACE AN ORDER

```
                    TO PLACE AN ORDER

The purpose of this program is to generate the
appropriate supply forms (DD 1348-6 &/or SF 36) to
place an order.

                Select the type of order

1.  Open Purchase
2.  Standard stock items from NPS RSS, NSC Oakland,
      or GSA
3.  Standard forms from NSC Oakland
4.  Publications from NAVPUBFORMCEN Phil
5.  $$ Reimbursement to NPS Ready Supply Store
6.  Transportation of material (e.g. Federal Express)
7.  Return to main menu

                Your order:  __
```

Screen 7.1 To Place an Order

Screen 7.1 shows the 6 different categories of requisitions which may be prepared. The category titles should be self-explanatory. Common procedures, which were described in detail in the last chapter, will not be discussed further. These procedures, such as selecting an account or supplier, will be listed as occurring, however, the reader is referred to the previous chapter for details.

A. OPEN PURCHASE

The Open Purchase order appears as option '1' on Screen 7.1 The following is the proper sequence of events to complete an open order.

1) Select an account

2) Select a supplier

3) Option to specify an RDD

4) Select requisition priority

5) Enter item to be ordered

6) Prepare printer

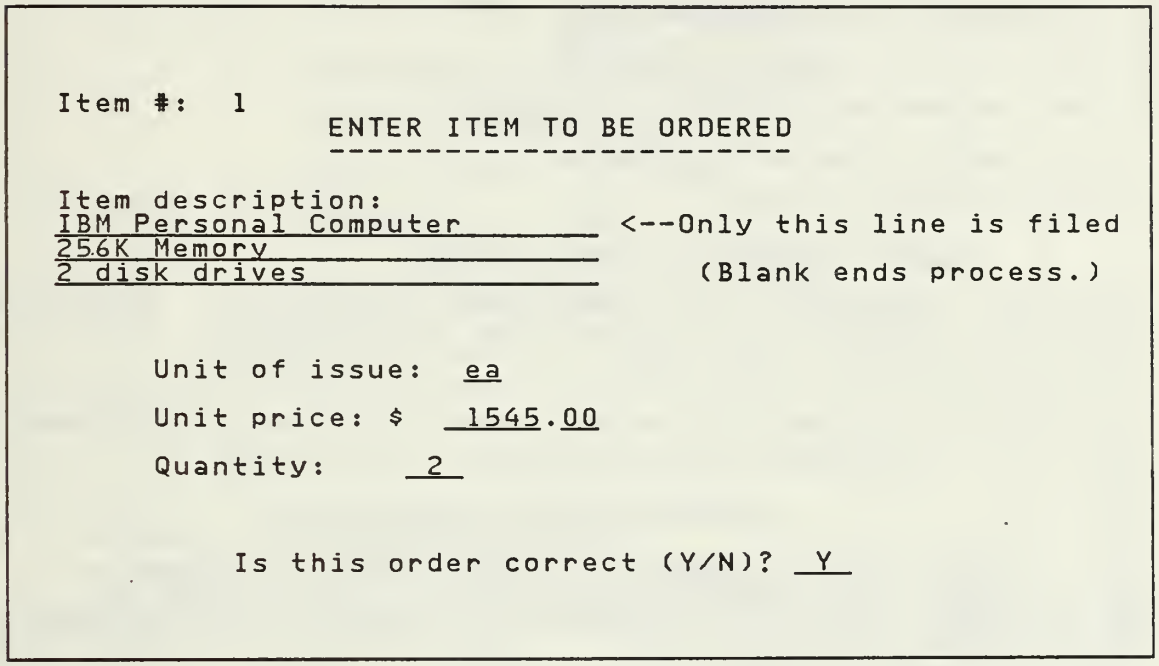
1. Enter Item to be Ordered

Screen 7.2 provides the user the opportunity to enter the description of the item to be purchased. It is important to note that although the entire description will appear on the requisition documents, only the 44 characters on the first line of the description will be saved in the database. It is important that the first line be sufficiently descriptive of the item, for it is this description which will appear on later reports and requisition summaries. SRdb has limited the size of the filed description due to program efficiency and disk space considerations. If the user leaves the first line of the item description blank, SRdb assumes that all desired items have been ordered. Up to 12 items may be ordered on a single SF-36. Note that this is a limitation of SRdb rather than an official supply limitation.

```
Item #:  1
                ENTER ITEM TO BE ORDERED
                ------------------------

Item description:
_____________________________ <--Only this line is filed
_____________________________
_____________________________      (Blank ends process.)

     Unit of issue:  ea
     Unit price: $  _____.__
     Quantity:      _____

          Is this order correct (Y/N)? __
```

Screen 7.2 Open Order

Screen 7.3 is an example of an order for two IBM Personal Computers. If the user indicates that there is an error on the screen, an opportunity will be provided to edit the item currently displayed. Once the user indicates that the order for an item is correct, there is no opportunity to change the request. The entire requisition may be aborted just prior to printing, as described in Chapter 5.



Screen 7.3 Sample Open Order

B. STANDARD STOCK REQUISITION

The Standard Stock Order appears as option '2' on Screen 7.1 This option is used to place an order for any materials which have a National Stock Number (NSN) assigned, except forms or publications. The following is the proper sequence of events to complete a standard stock order.

1) Select an account
2) Select a stock source
3) Option to specify an RDD
4) Select requisition priority
5) Enter item to be ordered
6) Prepare printer

1. Select Standard Stock Source

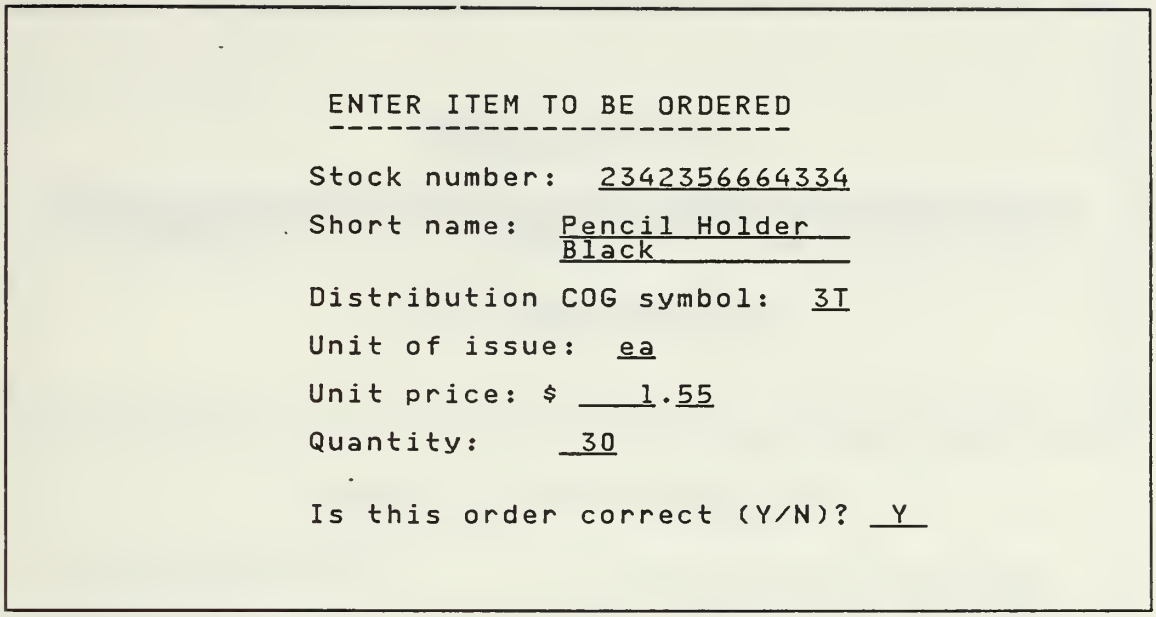
As seen in Screen 7.4, there are 4 different sources to which a standard stock request may be addressed. The source used will depend upon where the item is located.

Screen 7.4 Standard Stock Sources

2. Enter Item to be Ordered

Screen 7.5 provides the user the opportunity to enter the stock number and a short description of the item to be purchased. The item will be described in the SRdb database as a concatenation of the stock number and the short name. The Distribution COG may be obtained in the same listing in which the stock number was found.

Since a standard stock requisition may contain only one type of item, once the user verifies that the item description is correct, the requisition will be printed.



Screen 7.5 Standard Stock Item Entry

C. NSC OAKLAND FORMS REQUISITION

The requisition of forms from NSC Oakland, CA, appears as option '3' on Screen 7.1. This option is used to place an order for standard forms, which are assigned an NSN and are stocked at NSC Oakland. The following is the proper sequence of events to complete an NSC Oakland forms order.

1) Select an account

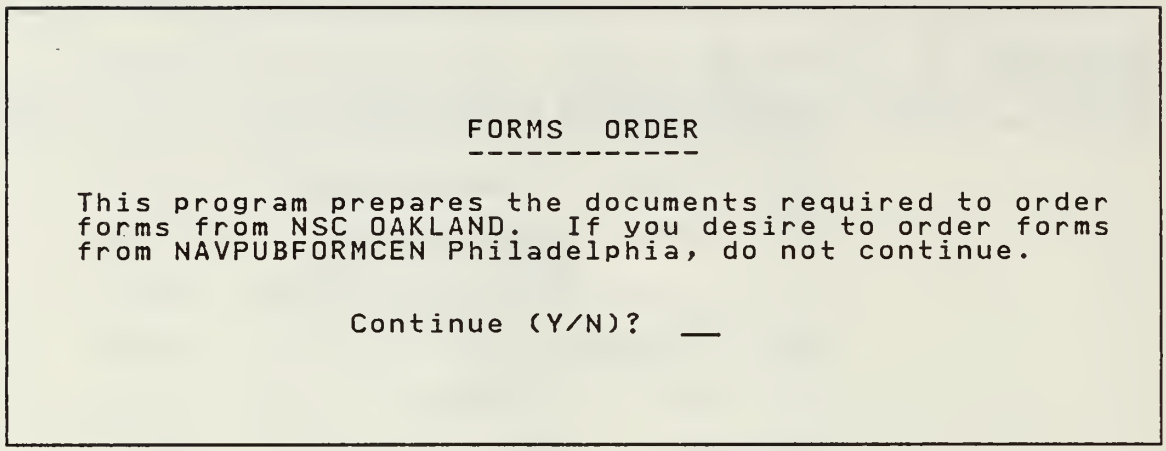
2) Option to specify an RDD

3) Select requisition priority

4) Enter item to be ordered

5) Prepare printer

Since this procedure is identical to the standard stock requisition process presented above, it will not be repeated. Screen 7.6 notifies the user of the selected process and provides an opportunity to abort.



Screen 7.6 Forms Order

D. PUBLICATION REQUISITION

The requisition of publications from NAVPUBFORMCEN, Philadelphia, PA, appears as option '4' on Screen 7.1. This option is used to place an order for publications, which are assigned an NSN and are stocked at NAVPUBFORMCEN. The following is the proper sequence of events to complete a publication order.

1) Select an account

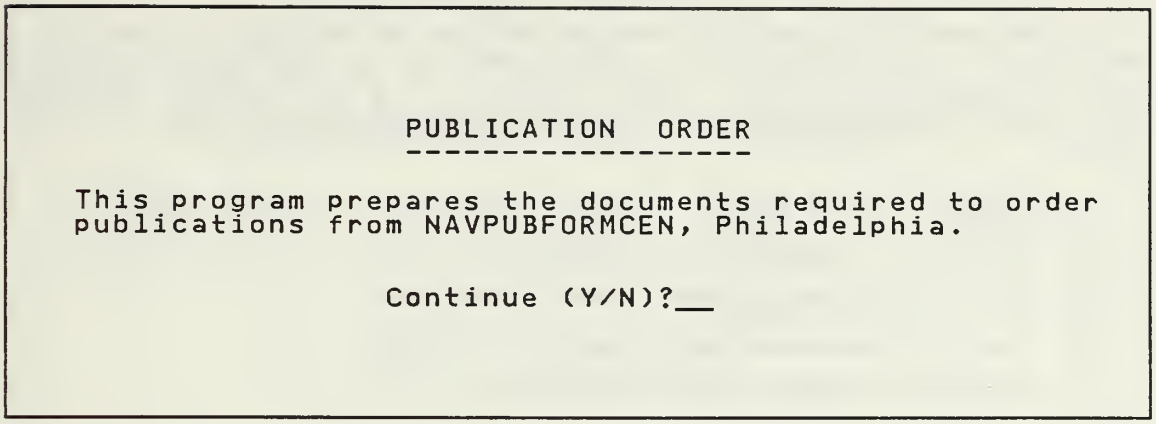
2) Option to specify an RDD

3) Select requisition priority

4) Enter item to be ordered

5) Prepare printer

Since this procedure is identical to the standard stock requisition process presented above, it will not be repeated. Screen 7.7 notifies the user of the selected process and provides an opportunity to abort.



Screen 7.7 Publication Order

E. RSS REIMBURSEMENT

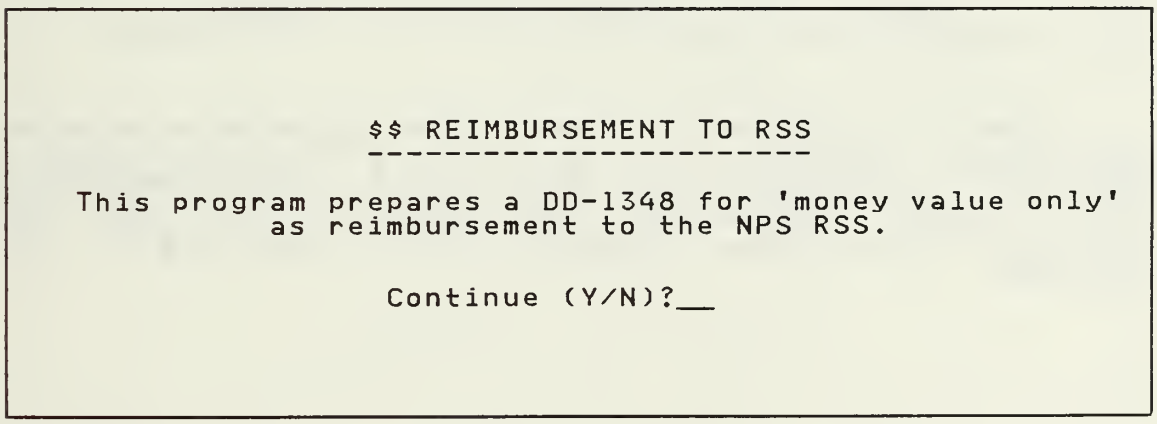
The reimbursement of the NPS RSS through issance of a 'money value only' DD-1348, appears as option '5' on Screen 7.1. The following is the proper sequence of events to complete a DD-1348 for RSS reimbursement:

1) Select an account

2) Enter the amount to be paid

3) Prepare printer

Screen 7.8 notifies the user of the selected process and provides an opportunity to abort.



Screen 7.8 RSS Reimbursement

F. TRANSPORTATION OF MATERIAL REQUISITION

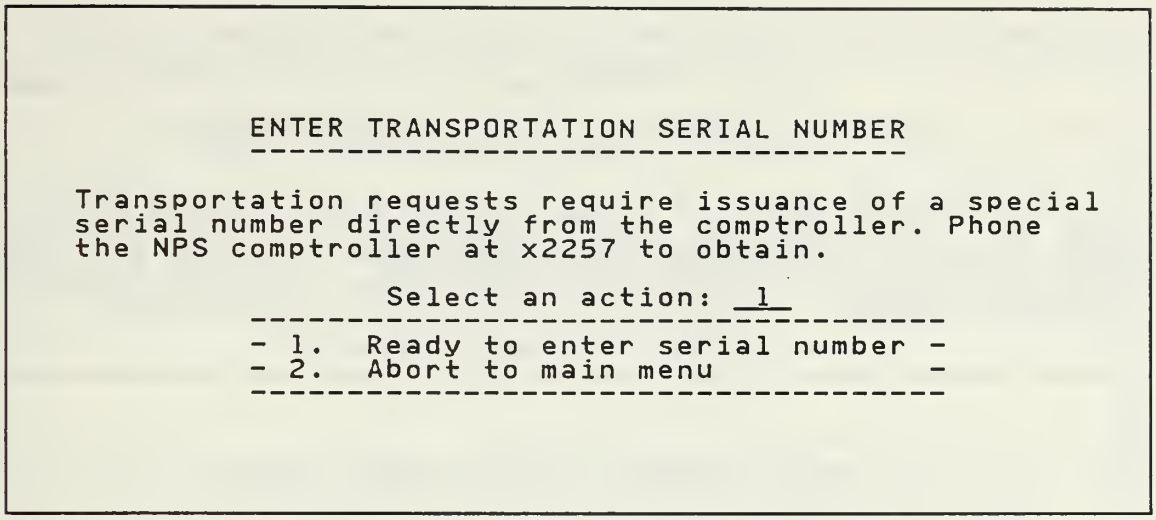
The requisition of transportation of material appears as option '6' on Screen 7.1. This option is used to to pay for services, such as Federal Express, which are used to transport needed materials. The following is the proper sequence of events to complete a transportation of materials requisition.

1) Select an account
2) Select a supplier (company)
3) Enter transportation serial number
4) Select requisition priority
5) Enter to whom item is addressed
6) Prepare printer

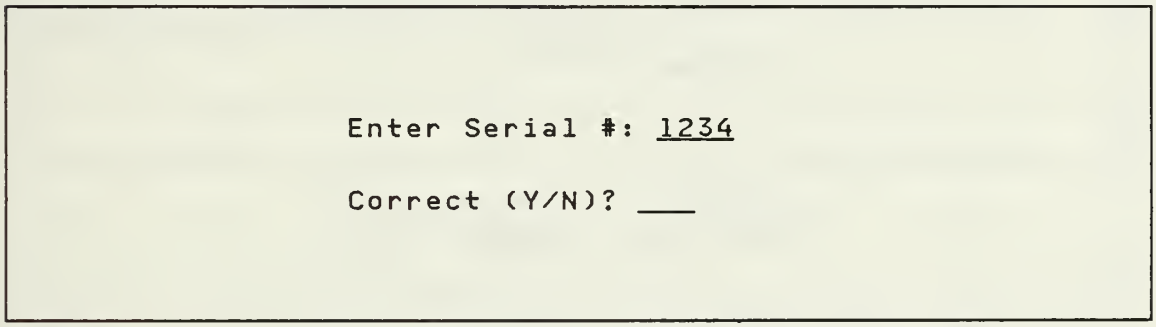
```
                    TRANSPORTATION OF MATERIAL

   This program prepares the supply documents necessary
   to use commercial carriers (e.g. Federal Express or
   UPS) to ship items.

                      Continue (Y/N)?__
```

Screen 7.9 Transportation of Material

Screen 7.9 notifies the user of the selected process and provides an opportunity to abort. The only new procedure in this order sequence is the entering of the Transportation Document Serial Number as displayed in Screens 7.10 and 7.11. Screen 7.10 provides the opportunity to abort the process, if the proper document serial number has not been obtained.



Screen 7.10 Prepare to Enter Transportation Number



Screen 7.11 Enter Transportation Serial Number

VIII. UPDATE FILES WITH PURCHASE ORDER

In choosing option 2 from the Main Menu, Screen 5.1, the user is presented with the opportunity to enter purchase order numbers from supply for each item. Screen 8.1 notifies the user of the selected process and provides an opportunity to abort.

```
        INPUT PURCHASE ORDER NUMBER (PO#)
        ---------------------------------

   Once a PO# is received from supply, this program
   permits entry of the PO# for each item ordered.
   Since not all items on the original requisition
   may have been ordered by supply on the same
   purchase order, you are requested to separately
   confirm each item on the purchase order.

              Continue (Y/N)? ___
```

Screen 8.1 Input P.O. #

If the user chooses to continue, he will be asked to input the requisition number and the purchase order number (PO #) of the item he is seeking, as in Screen 8.2. Leaving the requisition number blank will abort the process and return the user to the main menu.

```
              ENTER DATA
              ----------
   Requisition # :  23423423
      (Blank ends process)

   Purchase Order #:  12345678

      Correct (Y/N)?___
```

Screen 8.2 Input Req # and PO #

If the requisition is not found in the file, Screen 8.3 is displayed. The user will subsequently be given another opportunity to enter the requisition number.

```
REQUISITION NOT IN FILE
Please double check the requisition # and try again.
Press any key to continue...
```

Screen 8.3 Requisition Not Found

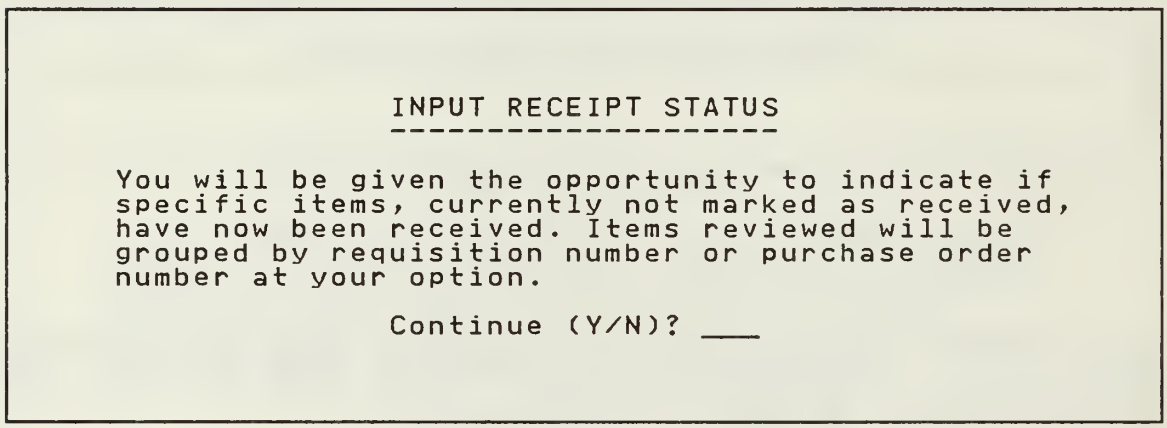
Once the requisition is found, each item on the requisition will be displayed one at a time. The user will have the opportunity to indicate exactly which items are on the purchase order, as seen in Screen 8.4.

```
Requisition #:  23423423
Item:  dBASE III
Quantity:      1
Unit Price:    456.75

Is this item on purchase #  12345678   (Y/N)?___
```

Screen 8.4 Item Displayed for PO # Input

IX. MARK ITEMS RECEIVED

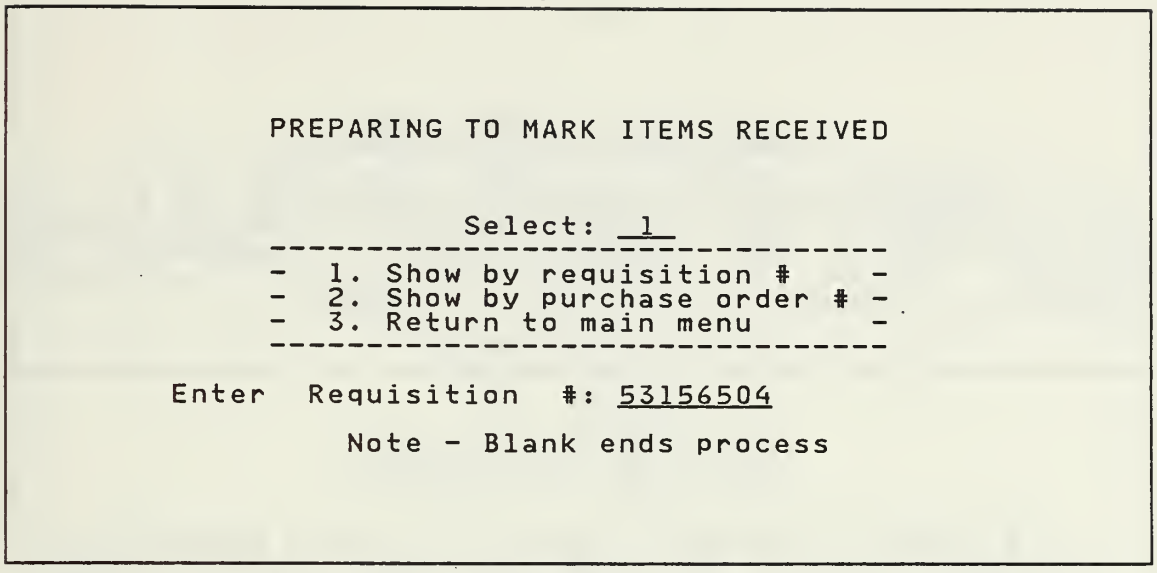
In choosing option 3 from the Main Menu, Screen 5.1, the user is presented with the opportunity to enter notation of the receipt of items in the database. Screen 9.1 notifies the user of the selected process and provides an opportunity to abort.



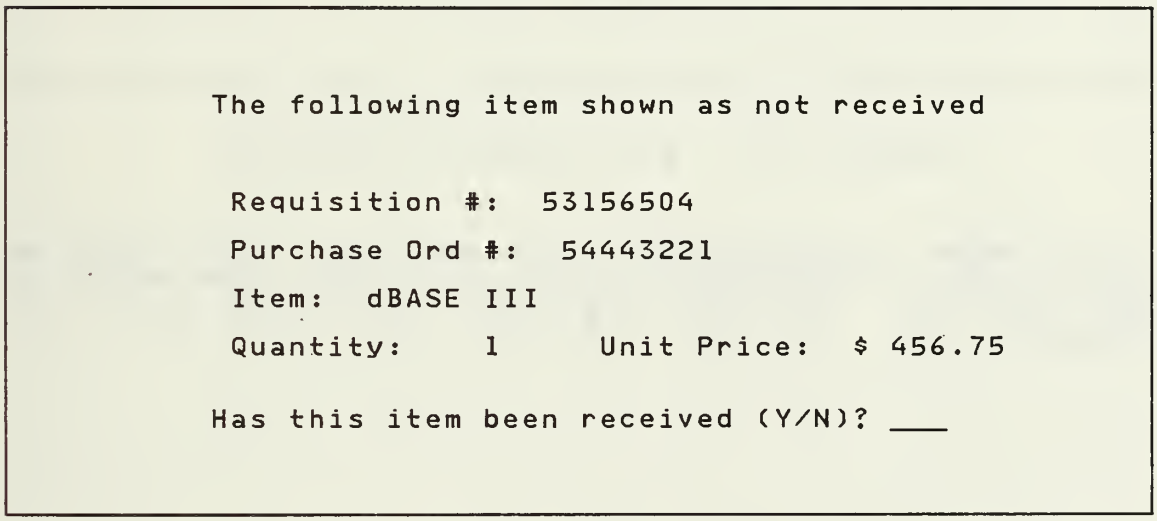
Screen 9.1 Mark Receipt of an Item

The user is permitted to identify the received item by specifying the original requisition number or the purchase order number (PO#), assuming the file has been updated with the PO#. Screen 9.2 shows an example of the user choosing to specify a requisition number.

SRdb will then screen the database and individually display each item filed under that number which is not already marked as received. If all items have been marked as received, the user will be so informed. Otherwise, each outstanding item will be displayed, as in Screen 9.3.



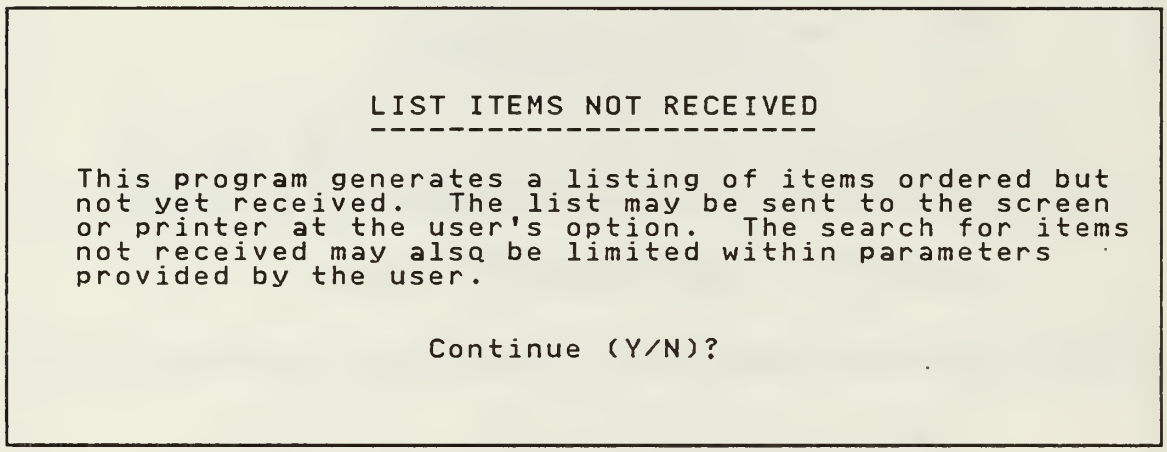
Screen 9.2 Pick Requisition Number or PO #



Screen 9.3 Item Not Shown as Received

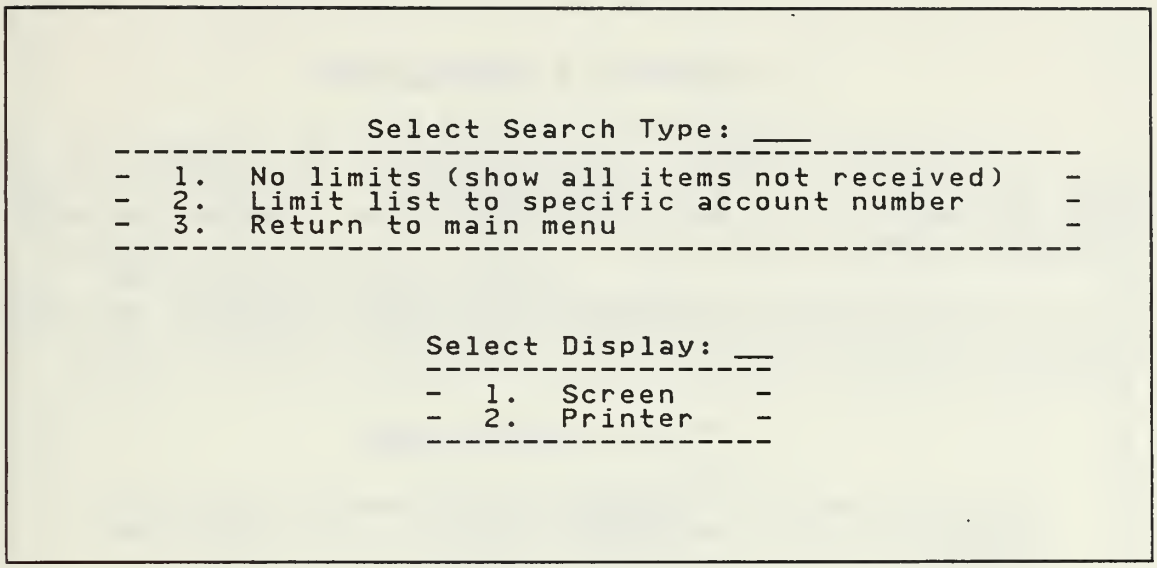
X. LIST ITEMS NOT YET RECEIVED

In choosing option 4 from the Main Menu, Screen 5.1, the user is presented with the opportunity to create a listing of all items in the database which are tagged as not received. Screen 10.1 notifies the user of the selected process and provides an opportunity to abort.



Screen 10.1 List Items Not Received

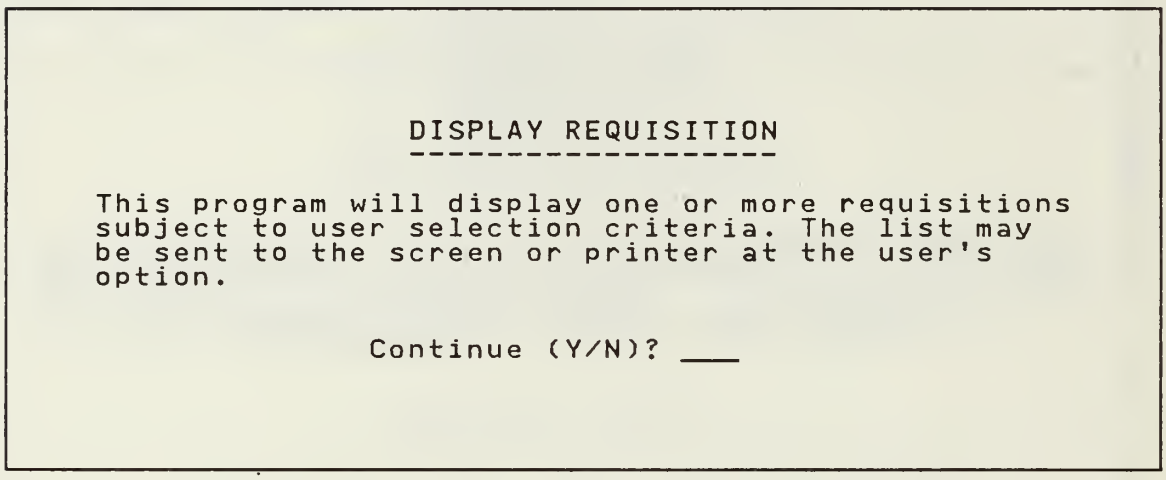
As shown in Screen 10.2, the user may select from two search types. Both searches will list only items marked as not received. The user is also given the option of displaying the listing on the screen or routing it to the printer.



Screen 10.2 Search Type Selection

XI. DISPLAY A REQUISITION

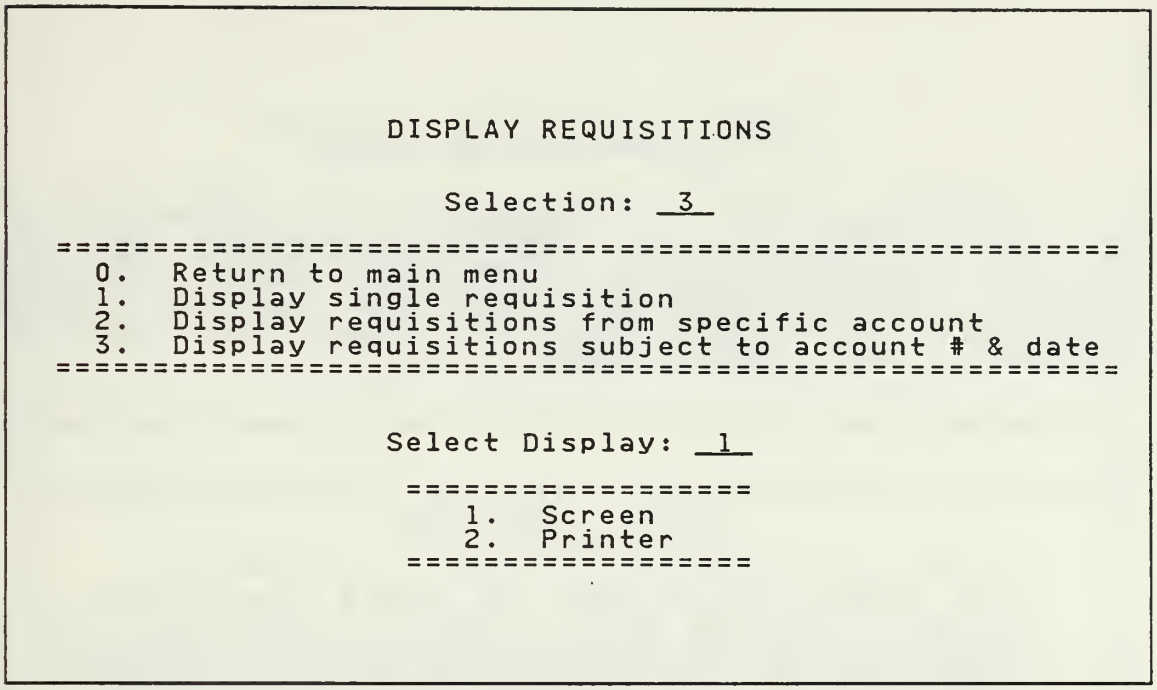
In choosing option 5 from the Main Menu, Screen 5.1, the user is presented with the opportunity to display one or more requisitions from the SRdb database. Screen 11.1 notifies the user of the selected process and provides an opportunity to abort.



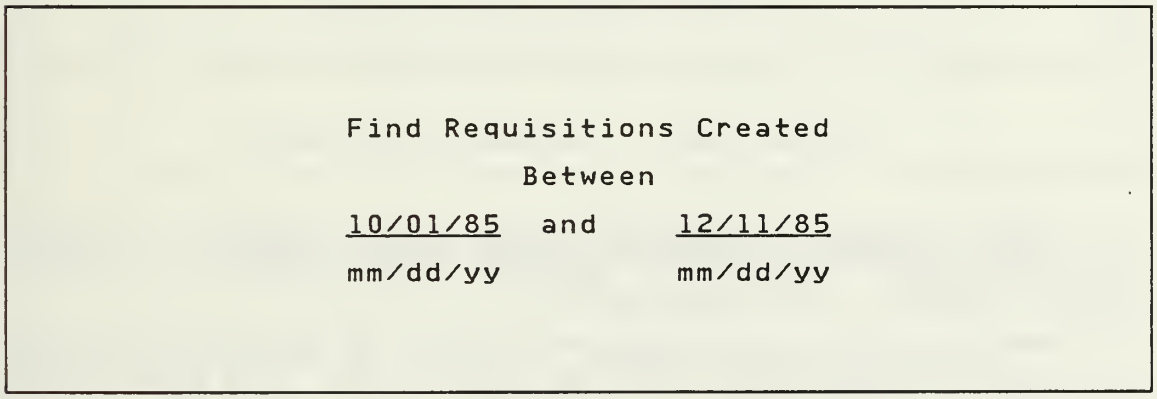
Screen 11.1 Display Requisitions

Screen 11.2 is the primary menu for selecting options for the display of requisitions. The user is asked to choose the type of requisition search and the mode of the output, either screen or printer.

If the user wants to print out only a single requisition, he will select option '1' from Screen 11.2, and he will then prompted for entry of the requisition number. Option '2' from Screen 11.2 will allow the user to view all requisitions on file from a specific account. If the user selects option '4', he will have the opportunity to review all requisitions from a single account generates between two dates, as seen in Screen 11.3.



Screen 11.2 Display Requisition Options



Screen 11.3 Requisition Generation Dates

XII. CHANGE AN ITEM PRICE

In choosing option 6 from the Main Menu, Screen 5.1, the user is presented with the opportunity to update the actual price of an item which has already been ordered and is in the SRdb database. It is not uncommon to receive price changes from NPS Supply after an item has been ordered. Screen 12.1 notifies the user of the selected process and provides an opportunity to abort.

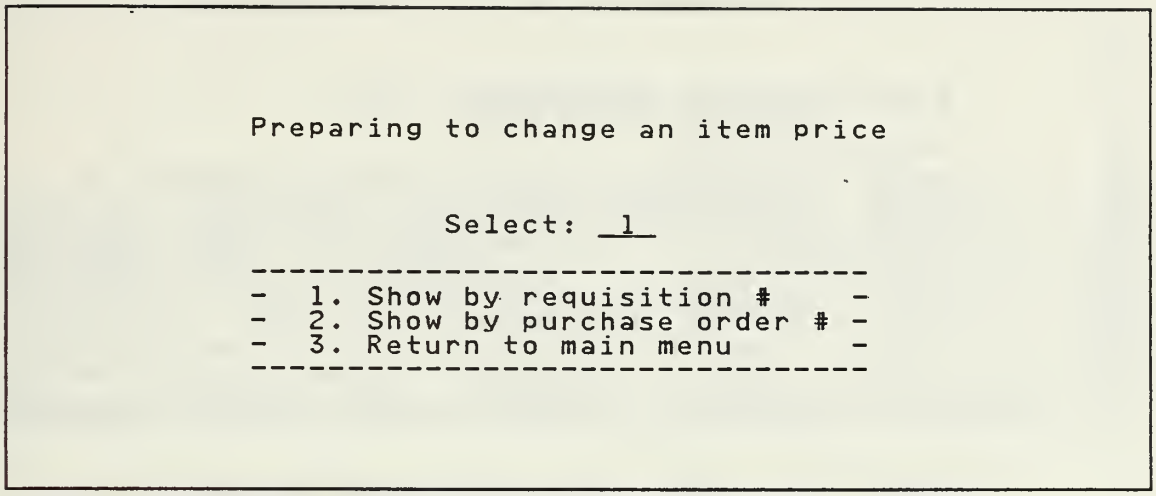
```
                    CHANGE ITEM PRICE
                    -----------------

    This module is used when the item's final price
    differs from that on the original requisition. You
    will be shown all items associated with a specific
    requisition # or purchase order #. Upon displaying
    each item, you will be given the opportunity to
    change the item's unit price or scroll to the next
    item.

                    Continue (Y/N)? ___
```

Screen 12.1 Change Item Price

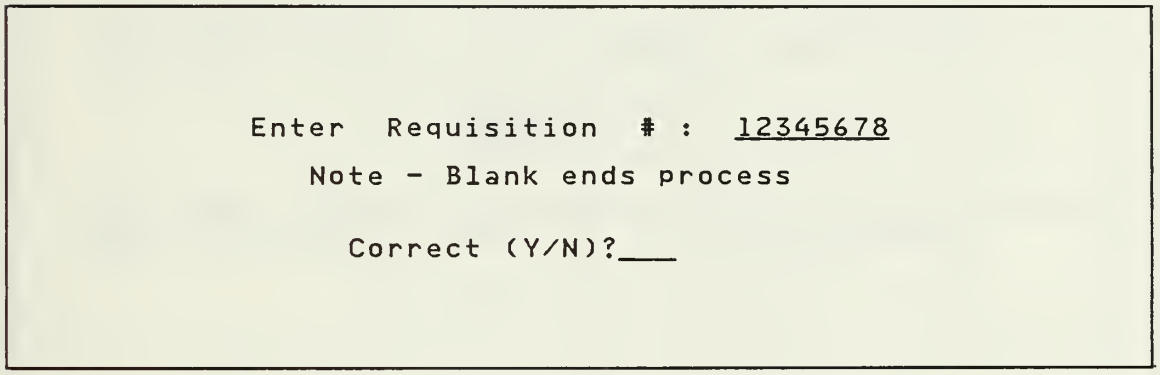
Items may be reviewed by specifying either the original requisition number or the purchase order number, if one has been assigned. An example will be shown specifying a requisition number, as in Screen 12.2.

If the requisition number entered in Screen 12.3 cannot be found, Screen 12.4 will be presented. The user will be presented with another opportunity to enter the correct requisition number.

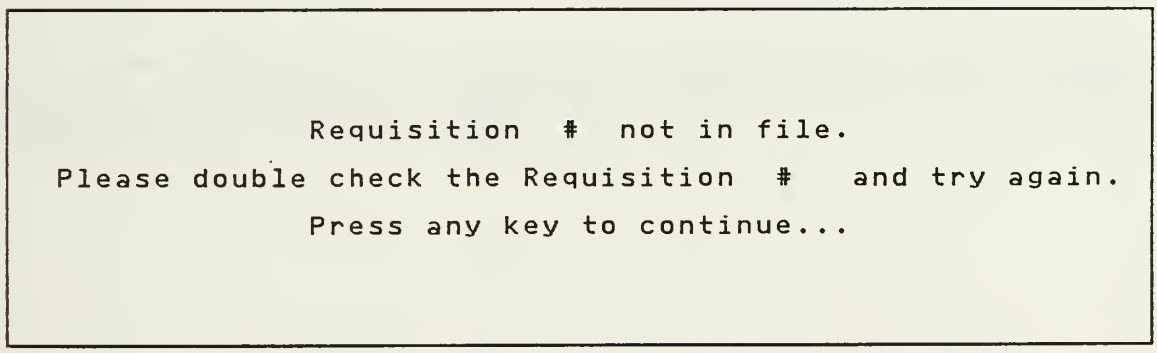
Screen 12.5 presents the item to the user and asks if a price change is desired. If the user responds 'Y', then the cursor will move to the price and permit a change. The user will be asked to confirm changes before they are saved to the database. If a mistake is made, the process may be repeated until the correct price is filed.



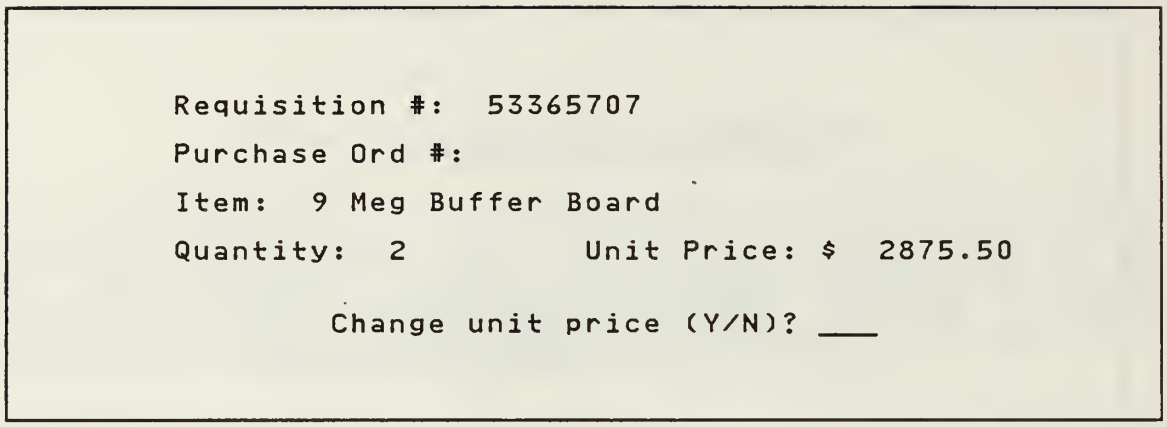
Screen 12.2 Select Item by Req # or PO #



Screen 12.3 Enter Requisition Number



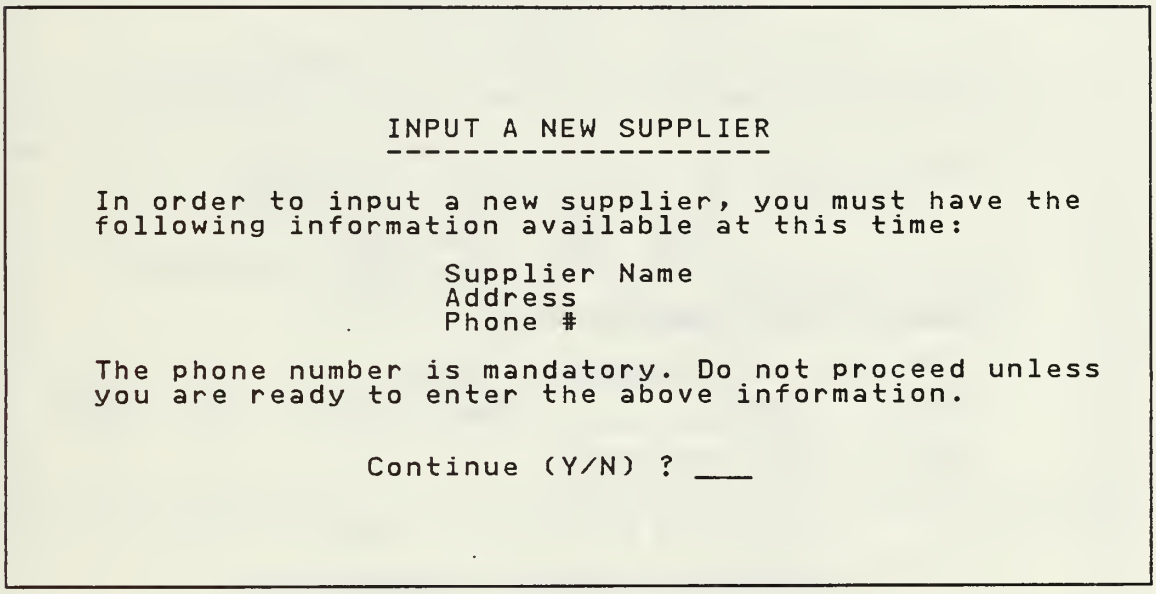
Screen 12.4 Requisition Not Found



Screen 12.5 Item Displayed for Price Change

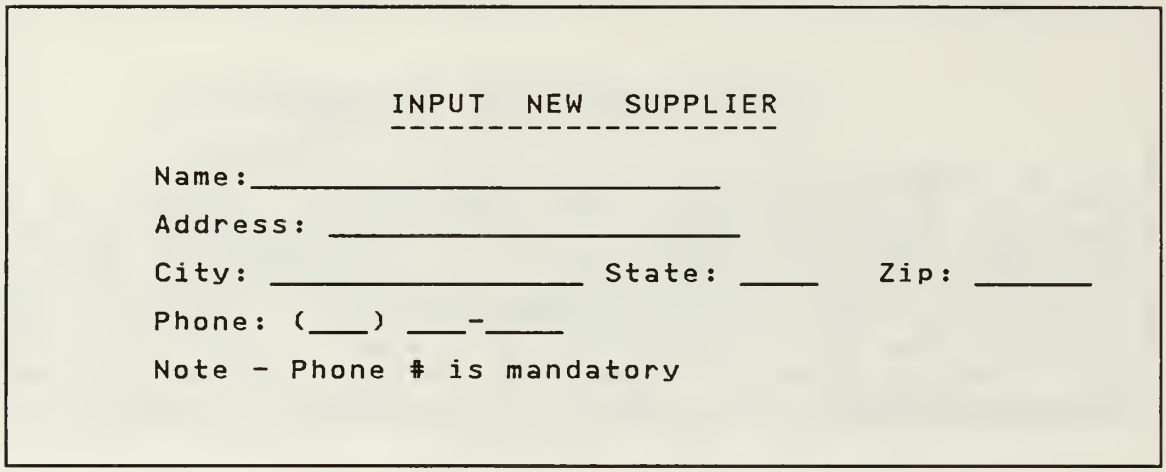
XIII. ENTER A NEW SUPPLIER

In choosing option 7 from the Main Menu, Screen 5.1, the user is presented with the opportunity to enter a new supplier into the database. All required information, name, address, and phone number should be available to the user. The phone number is mandatory. It is used by SRdb to select a supplier number. The supplier number is simply a number used by the program to keep track of the suppliers. Since suppliers may be recalled by their name, there is no need for a user to commit the supplier numbers to memory or maintain an external list. Screen 13.1 notifies the user of the selected process and provides an opportunity to abort.

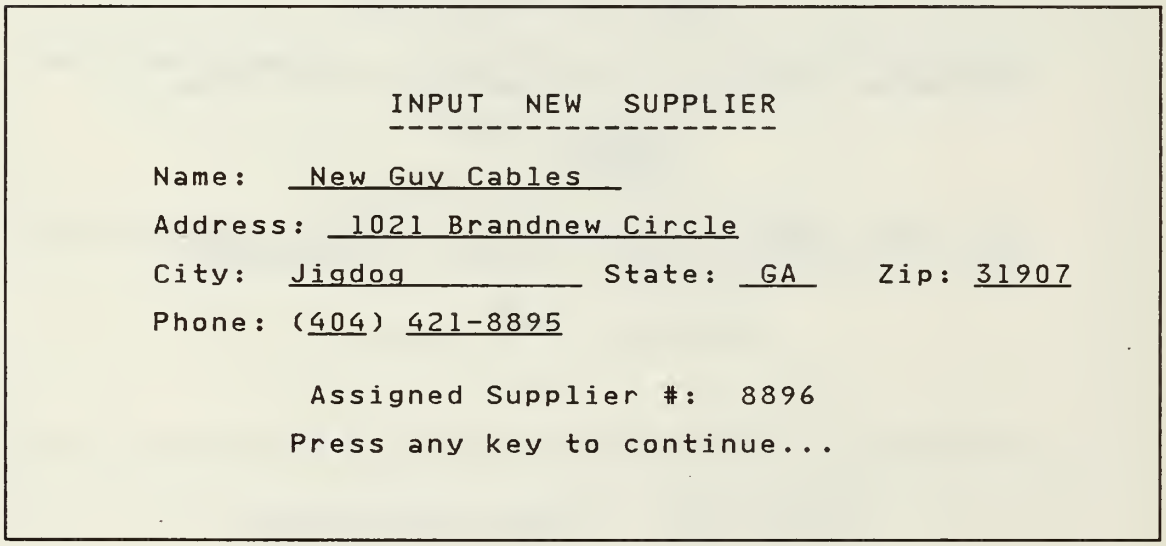


Screen 13.1 Enter New Supplier

Screen 13.2 shows an example of the blanks the the user will be expected to complete. Screen 13.3 is an example which has been completed by the user. Note that SRdb has assigned the supplier number.



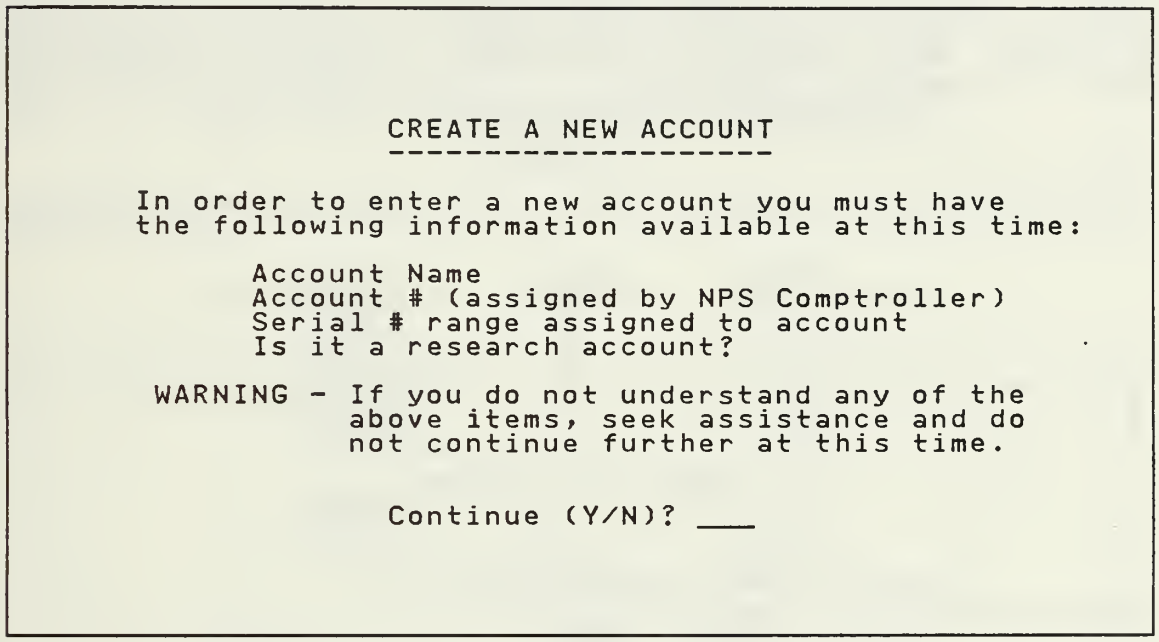
Screen 13.2 Input new Supplier



Screen 13.3 New Supplier Example

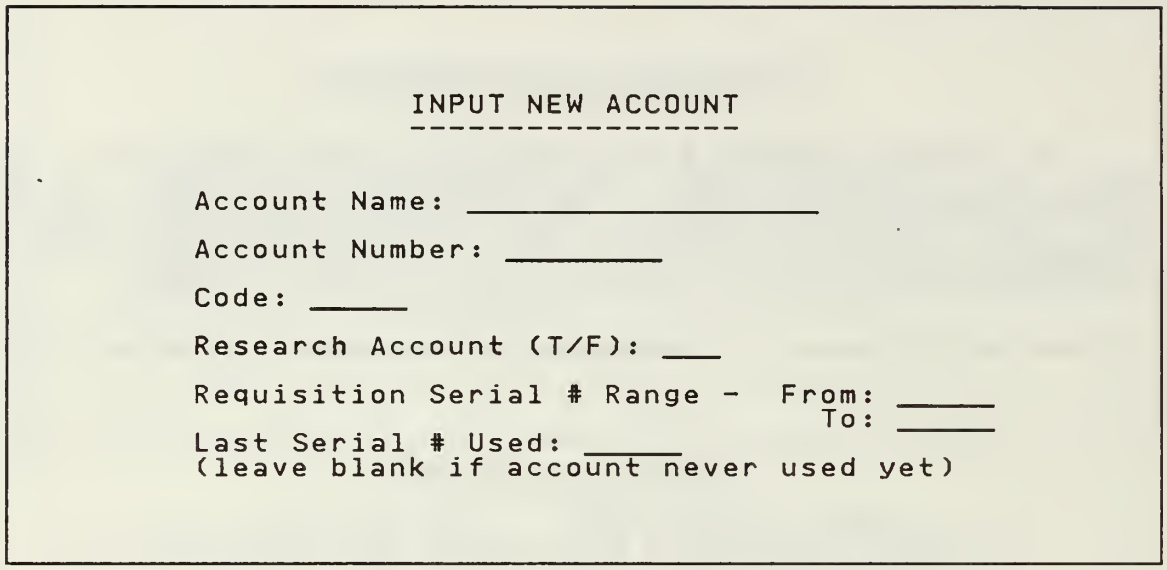
XIV. CREATE A NEW ACCOUNT

In choosing option 8 from the Main Menu, Screen 5.1, the user is presented with the opportunity to enter a new account into the database. All required information should have been received from the NPS Comptroller office and be available to the user. Screen 14.1 notifies the user of the selected process and provides an opportunity to abort.

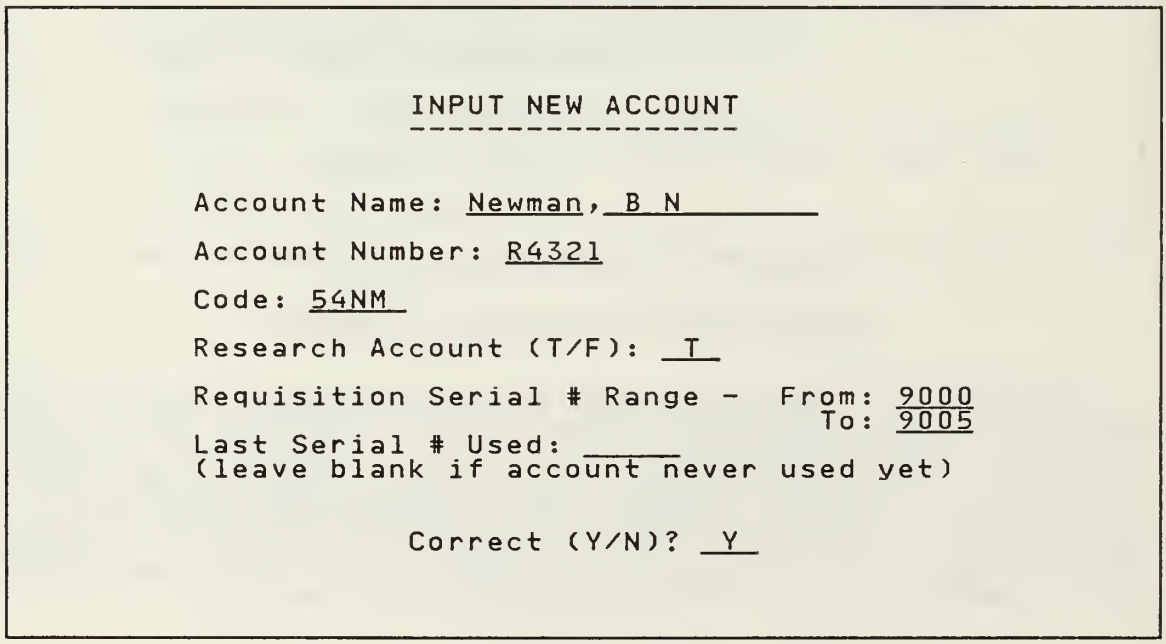


Screen 14.1 Enter New Account

Screen 14.2 shows an example of the blanks the the user will be expected to complete. Screen 14.3 is an example which has been completed by the user. The ability to enter the last serial number used assists in transitioning current accounts to the SRdb system. If an account is brand new, the next document serial number to be used is the first one in the series. If the account is being transitioned to SRdb, simply enter the last serial number used, and the system will properly number future requisition documents.



Screen 14.2 Input New Account Screen



Screen 14.3 New Account Example

APPENDIX C

DATABASE STRUCTURE

The program uses 5 separate database files (.dbf), 4 of which have 2 indexes each. The width of fields and indexes are expressed in bytes. It should be noted that the size of indexes are approximations which were calculated in accordance with the procedures outlined in the Ashton Tate - Advanced Programmer's Guide [Ref. 12]. The grand totals given for each account represent the minimun number of bytes required for each record in the database. The reader is referred to the Ashton Tate - Advanced Programmer's Guide [Ref. 12] for more in depth sizing algorithms.

ACCNT.dbf

Field	Type	Width
ANAME	C	12
ACCNO	C	5
CODE	C	4
RESEARCH	L	1
LOSERNO	C	4
HISERNO	C	4
LASTUSED	C	4
Total		34
Indexes		
ANAME_A	20	
ACCNO_A	13	33
Grand total		67

SUP.dbf

Field	Type	Width
SNAME	C	20
ADDR	C	20
CITY	C	12
STATE	C	2
ZIP	C	5
FONE	C	10
SUPNO	C	4
Total		75
Indexes		
SNAME_S	28	
SUPNO_S	12	40
Grand total		115

REQ.dbf

Field	Type	Width
REQNO	C	8
ACCNO	C	5
PRI_CODE	C	1
SUPNO	C	4
RDATE	D	9
Total		27
Indexes		
REQNO_R	16	
ACCNO_R	13	29
Grand total		56

ITEM.dbf

Field	Type	Width	Dec
DESCRIP	C	44	
UNIT	C	2	
QUANT	N	5	
UPRICE	N	8	2
REQNO	C	8	
PONO	C	8	
RCVD	L	1	
Total		76	
Indexes			
REQNO_I	16		
SUPNO_I	16	32	
Grand total		108	

TEMPLATE.dbf

Field	Type	Width	Dec
ITEMNO	N	2	
DESCRIP	C	44	
DESCRIP2	C	44	
DESCRIP3	C	44	
UNIT	N	2	
UPRICE	N	8	2
QUANT	N	8	
Total		155	

No indexes are required. This .dbf serves as a template which is copied to a TEMPORD.dbf whenever an open purchase order is to be made. After the requisition documents have been prepared, TEMPORD.dbf is erased.

APPENDIX D

DATA DICTIONARY

I. INTRODUCTION

Memory variables in dBASE III remain local to the modules in which they were created unless they were declared "PUBLIC" prior to having a value initially assigned. This data dictionary lists all PUBLIC memory variables. Unless otherwise noted, memory variables are assumed to be of type character.

II. STATIC DATA

Static data elements usually do not change values during a typical normal run. They are frequently associated with control or reference. All static data elements have preassigned values.

A. File Names

The following data elements identify specific disk files and are always concatenated with a disk identifier (A,B,C, etc. stored as C_ADRV or C_SDRV).

ACCNO_A	ndx file to ACCNT.dbf indexed on account number.
ACCNO_R	ndx file to REQ.dbf indexed on account number.
ACCNT	dbf file for all accounts.
C_ADRV	Memory variable stored in CONFIG.VAR file designating the expected disk drive location for account and requisition related files.
C_SDRV	Memory variable stored in CONFIG.VAR file designating the expected disk drive location for supplier files.
ITEM	dbf file holding each item which has been requisitioned and related information.
PONO_I	ndx file to ITEM.dbf indexed on purchase order numbers.
REQ	dbf file holding data relating requisitions to specific suppliers and accounts.
REQNO_I	ndx file to ITEM.dbf indexed on requisition numbers.
REQNO_R	ndx file to REQ.dbf indexed on requisition numbers.
SNAME_S	ndx file to SUP.dbf indexed on supplier name.
SUP	dbf file listing names, addresses, and phone numbers of known suppliers.

SUPNO_S ndx file to SUP.dbf indexed on supplier number.

TEMPLATE an empty dbf file containing the structure of fields essential in creation of an open order requisition. It is used to create the TEMPORD file whenever an open order requisition is executed.

TEMPORD a temporary file used to hold the full description of all items in an open order. The regular ITEM.dbf only stores a one line description (38 characters). This file temporarily holds 2 additional 38 character lines until the SF-36 has been printed. After the SF-36 document has been successfully printed, and the essential details of the requisition have been filed in the ITEM.dbf and REQ.dbf, the TEMPORD file is erased.

B. Misc Static Memory Variables

CCOLOR	Holds color assignments for normal text screen output. May be changed to accommodate monochrome monitors based on the value of C_CLRMON, however, since the program is expected to always be run on the same system, this is viewed as a static variable.
ERRCOLOR	Holds color assignments for error messages for screen output. May be changed to accommodate monochrome monitors based on the value of C_CLRMON, however, since the program is expected to always be run on the same system, this is viewed as a static variable.
FY	Last digit of the fiscal year used in the construction of the appropriate FY oriented julian date for use in forming valid requisition numbers. The fiscal year is stored in a FY.ID file on the account disk.
MONEY	String "MONEY VALUE ONLY" to be inserted on on a DD-1348 prepared to pay an NPS RSS billing.
MSCOLOR	Color assignments for highlighted messages for screen output. May be changed to accommodate monochrome monitors based on the value of C_CLRMON, however, since the program is expected to always be run on the same system, this is viewed as a static variable.
WMSG	Wait message which requests user to "press a key to continue. This was used vice the system wait prompt because this message is centered.

III. DYNAMIC INPUT DATA ELEMENTS

The following data elements directly receive values from user inputs during the program run. A brief description of the variable is followed by legal value constraints (length, data type).

ACCNO	Account number assigned by NPS Comptroller and entered in ACCNT.dbf in NEW_ACNT.PRG; is unique. (5 char)
ADDR	Supplier street address as input to SUP.dbf by user; filed in SUP.dbf by NEW_SUPL.PRG (20 char)
ADDR1	1st line of address of receiver of material shipped by XPOR_ORD.PRG. (25 char)
ADDR2	2nd line of address of receiver of material shipped by XPOR_ORD.PRG. (25 char)
ADDR3	3rd line of address of receiver of material shipped by XPOR_ORD.PRG. (25 char)
ADDR2	4th line of address of receiver of material shipped by XPOR_ORD.PRG. (25 char)
ANAME	Account name, usually individual's last name, as entered in ACCNT.dbf in NEW_ACNT.PRG. (12 char)
AREACODE	Phone areacode of supplier as input to SUP.dbf in NEW_SUPL.PRG. (3 char)
CITY	City of supplier address as input to SUP.dbf by user; filed in SUP.dbf by NEW_SUPL.PRG (12 char)
CODE	Code of individual account as entered in ACCNT.dbf in NEW_ACNT.PRG. (4 char)
DESCRP	The mem var which receives an item description. The value is subsequently filed in the DESCRIP field of the ITEM.dbf file. (44 char)
DIST	Distribution symbol used in ordering stock-numbered items. (2 char)
EXT1	Phone extention of the 1st point of contact listed in a supplemental memo accompanying an order exceeding $1,000. (4 char)
EXT2	Phone extention of the 2nd point of contact listed in a supplemental memo accompanying an order exceeding $1,000. (4 char)
FONE	Phone number of supplier as input to SUP.dbf in NEW_SUPL.PRG. (7 char)
HISERNO	High serial number in range of serial numbers assigned to a specific account by the NPS Comptroller and entered in ACCNT.dbf in NEW_ACNT.PRG. (4 char)

LASTUSED	Serial number used in most recent requisition (not including transportation requisitions) from a specific account entered in ACCNT.dbf in NEW_ACNT.PRG. This field is updated in the process of making each new order. (4 char)
LOSERNO	Low serial number in range of serial numbers assigned to a specific account by the NPS Comptroller and entered in ACCNT.dbf in NEW_ACNT.PRG. (4 char)
NOMEN 1	Used to hold 1st line of a short description for a stock-numbered items in BUY1_ITM.PRG. (13 char)
NOMEN 2	Used to hold 2nd line of a short description for a stock-numbered item in BUY1_ITM.PRG. (13 char)
POC1	1st "point of contact" listed in a supplemental memo which accompanies orders exceeding $1,000. (22 char)
POC2	2nd "point of contact" listed in a supplemental memo which accompanies orders exceeding $1,000. (22 char)
PRI	1 letter code indicating priority assigned to requisition by user. ('A', 'B', or 'C')
QUNT	Quantity of item to be ordered. (1 - 99999, numeric)
RESEARCH	Logical variable assigned .T. if account involves research monies. (1 logical)
RDD	Required delivery date; 3 digit julian date that material is desired; assists supply department in placing order. (1 - 366, numeric)
RDD_YES	Logical variable showing if the user has chosen to specify an RDD. (.T. if rdd specified; .F. if rdd not specified)
SHIPTO	Addressee to whom material is to be transported when requisition is to cover transportation of material; used by XPOR_ORD.PRG (25 char)
STATE	State of supplier address as input to SUP.dbf by user; filed in SUP.dbf by NEW_SUPL.PRG (2 char)
STKNUM	Federal stock number of item ordered by BUY1_ITM.PRG (13 char)
TODAY	Date variable holding today's date. If transactions are to be generated for dates other than today, this date must be modified in GET_DATE.PRG (MM/DD/YY, date)
UNT	Unit of order, e.g. 'ea', 'dz', etc. (2 char)

UPRCE	Unit price of item. Must allow for order of items which are free. (0 - 99,999.99, numeric)
ZIP	Zip code of supplier address as input to SUP.dbf by user; filed in SUP.dbf by NEW_SUPL.PRG (5 char)

IV. DYNAMIC OUTPUT DATA ELEMENTS

The following data elements receive values from within the program during the program run. The domain of values is controlled since the user never inputs a value directly, but rather, values are assigned internally based upon his response. An example of this type of data element may be seen in the following construction in which DEMAND is a dynamic output data element:

```
If answer = 'Y'
   DEMAND = 'R'
else
   DEMAND = 'N'
endif
```

AREACODE1 Areacode of 2nd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. AREACODE1 is not input by user, but rather read from AREACODE field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (3 char)

AREACODE2 Areacode of 3rd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. AREACODE2 is not input by user, but rather read from AREACODE field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (3 char)

CHECKER an internal variable which assumes the value of the LASTUSED serial number of an account, used in the calculation of a new requisition number by CALC_REQ.PRG (4 char)

CITY1 City of 2nd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. CITY1 is not input by user, but rather read from CITY field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (12 char)

CITY2 City of 3rd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. CITY2 is not input by user, but rather read from CITY field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (12 char)

COUNTER Numeric variable used to count the number of line items in a requisition. (1 - 13, numeric)

DEMAND Refers to the recurring nature of demand for an item or service. ('R' if demand is recurring; 'N' if nonrecurring.)

DOCID Document identifier as per p.4-7 of Ref 1. ('AOA' for NSN items; 'AOD' for Navy Forms & Publications; 'AOE' for non-standard stock items.)

FONE1	Phone number of 2nd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. FONE1 is not input by user, but rather read from FONE field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (7 char)
FONE2	Phone number of 3rd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. FONE2 is not input by user, but rather read from FONE field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (7 char)
FUND	Fund Code as described on p. 4-8 of Ref. 1. ('2S' for non-reimbursible requisitions; 'Y6' for APA material)
GOAHEAD	Logical control value used to control execution flow in BUY2_ITM.PRG after running of WARNING.PRG (1, logical)
JULIAN	3 digit numeric value based on julian date as calculated by GET_DATE.PRG (1 - 366, numeric)
MARKER	Tracks the number of lines being displayed on the screen to ensure that output does not overflow screen. Initialized to 9, triggers a 'wait' when value > 23. (9-24, numeric)
MS_Code	M&S Code as described on p. 4-7 of Ref. 1. Value is assigned based on PRI_CODE. Used only for standard stock requisitions. ('W' for PRI_CODE = 'A'; 'T' for PRI_CODE = 'B' or 'C').
PRIORITY	Priority code as described on p. 4-8 of Ref. 1. Value is assigned based on PRI_CODE. ('08' for PRI_CODE = 'A'; '10' for PRI_CODE = 'B'; '15' for PRI_CODE = 'C').
REQNO	Requisition number which is concatenation of the last digit of the FY + 3-digit JULIAN date + 4-digit serial number which is taken from an individual's account. (8 char)
RMKO	Remarks which are printed in block 'O' of a DD-1348. Consists of expense element appropriate to the type of material ordered as per Ref. 6. (Valid assignments are 'T', 'W', 'P', 'R', 'Q', and 'L'.)
ROUTE	Routing identifier as described on p. 4-7 of Ref. 1. Used only for standard stock requisitions. ('NOZ' for NSC Oakland, 'NFZ' for NAVPUBFORMCEN, Phil, 'Z9S' for NPS RSS).

SENDTO Supplier name from SNAME field of record selected by user from SUP.dbf. Used in Block A of DD-1348. (20 char)

SERVICE Last digit of current FY. Entered in block 45 of DD-1348. (0-9, char)

SF36 Logical variable = .T. when printing of an SF-36 is required. An open order requires printing of an SF-36 when
1) Item description exceeds available space on DD-1348 (> 22 char).
2) More than one item is being ordered on same open order requisition.
(1, logical)

SIGNAL Signal Code as described on p. 4-8 of Ref. 1. ('D' for free publications, 'A' for all other items).

SNAME1 Name of the 2nd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. SNAME1 is not input by user, but rather read from SNAME field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (20 char)

SNAME2 Name of the 3rd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. SNAME2 is not input by user, but rather read from SNAME field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (20 char)

STATE1 State address of the 2nd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. STATE1 is not input by user, but rather read from STATE field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (2 char)

STATE2 State address of the 3nd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. STATE2 is not input by user, but rather read from STATE field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (2 char)

SUPADR Supplementary address of requisition as described on p. 4-8 of Ref. 1. This is also known as the job order number. It results from a rather series of concatenations performed in GET_CAT.PRG (5 char)

SUPNO Unique supplier number on which the SUP.dbf is indexed. It is assigned at the time a new supplier is entered in the SUP.dbf by NEW_SUPL.PRG. It is based upon an incrementing of the last 4-digits of the supplier's phone number. The incrementation continues until an unused number is found. (4 char)

TOTVAL	Total value of a specific requisition or series of items. Value range depends upon specific usage, however, in general (.01 - 99,999.99, numeric).
TYPEORDR	Type of order as assigned by NEW_ORDR.PRG ('OPEN', 'STOCK', 'FORM', 'PUB', 'RSS$', or 'XPORT').
ZIP1	Zip code of the 2nd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. ZIP1 is not input by user, but rather read from ZIP field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (5 char)
ZIP2	Zip code of the 3rd supplier to appear on a supplemental memo which accompanies orders exceeding $1,000.00. ZIP2 is not input by user, but rather read from ZIP field of of the record the user has chosen from the SUP.dbf. Value assignment is made in the SUP_MEMO.PRG (5 char)

APPENDIX E

SRdb SOURCE CODE LISTINGS

The following is a listing of the 40 SRdb modules, which are written in dBASEIII application language. Each module is prefaced by a prologue giving the name, author, purpose, and a summary of interaction with other modules.

BUY1_ITM.PRG
BUY2_ITM.PRG
CALC_REQ.PRG
CHG_PRICE.PRG
CONFIG.PRG
DISP_REQ.PRG
DIS1_REQ.PRG
DIS2_REQ.PRG
DIS3_REQ.PRG
FILE_ITM.PRG
FILE_REQ.PRG
FORM_ORD.PRG
GET_CAT.PRG
GET_DATE.PRG
GET_PRI.PRG
GET_RDD.PRG
IN_PONO.PRG
IN_RCVD.PRG
MAIN.PRG
NEW_ACNT.PRG
NEW_ORDR.PRG
NEW_SUPL.PRG
OPN_ORDR.PRG
PRNT_SMO.PRG
PRTSF36.PRG
PRT1348a.PRG
PRT1348o.PRG
PRT1348x.PRG
PUB_ORD.PRG
QUIT.PRG
REQ_HDR.PRG
RSS_ORD.PRG
SEL_ACNT.PRG
SEL_SUPL.PRG
SHW_NRI.PRG
STK_ORDR.PRG
SUP_MEMO.PRG
WARNING.PRG
WARN_PRT.PRG
WELCOME.PRG

```
*************************************************************************************
*                                                                                   *
*  Module Name:  BUY1_ITM.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module generates a screen for user input of a single              *
*            item requisition.  It is invoked in situations when only               *
*            one item may be purchased per requisition # (e.g. when                 *
*            making a DOD,GSA, or NPS RSS stock requisition).                       *
*                                                                                   *
*  This module is called by:  FORM_ORD.PRG                                          *
*                             PUB_ORD.PRG                                           *
*                             STK.ORDR.PRG                                          *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


  ok = ' '
  do while ok <> 'Y'
    public descrp,unt,uprce,qunt,dist,stknum,nomen1,nomen2
    clear
    @ 2,24 SAY "ENTER ITEM TO BE ORDERED"
    @ 3,24 SAY "------------------------"
    stknum = '             '
    nomen1 = '             '
    nomen2 = '             '
    dist = '  '
    @ 5,14 SAY "Stock number:"
    @ 5,29 GET stknum picture "@!"
    @ 7,14 SAY "Short name:"
    @ 7,27 GET nomen1
    @ 8,27 GET nomen2
    @ 10,14 SAY "Distribution COG symbol:"
    @ 10,40 GET dist picture "@!"
    read
    descrp = nomen1 + " " + stknum
    unt = 'ea'
    uprce = 0.00
    qunt = 0
    @ 12,14 SAY "Unit of issue:"
    @ 12,30 GET unt picture "@A"
    @ 14,14 SAY "Quantity:"
    @ 14,25 GET qunt picture "99999"
    if typeordr <> 'PUB'
      @ 16,14 SAY "Unit price: $"
      @ 16,28 GET uprce picture "99999.99"
    endif
    read
    set color to &mscolor
    @ 20,21 SAY "Is this order correct (Y/N)?"
    @ 20,51 GET ok picture "@!"
    set color to &ccolor
    read
  enddo
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  BUY2_ITM.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module is invoked to accept multiple items per single             *
*            requisition as in the case of an open purchase. The user               *
*            is limited to only 12 items per requisition due to the                 *
*            physical size of a SF-36 document. There is currently no               *
*            provision for generation of multiple SF-36's per requisition.          *
*            Each item is saved to the item.dbf after it is certified to            *
*            be correct by the user.  The process will stop when the                *
*            user leaves the item description blank.                                *
*                                                                                   *
*  This module is called by:  OPN_ORDR.PRG                                          *
*                                                                                   *
*  This module calls:  FILE_ITM.PRG                                                 *
*                                                                                   *
*************************************************************************************


  public unt,uprce,totval,qunt,goahead
  totval = 0.00
  ok = ' '
  do while counter < 13
    goahead = .T.
    clear
    @ 1,4 SAY "Item #:"
    @ 1,12 SAY counter picture "##"
    @ 2,24 SAY "ENTER ITEM TO BE ORDERED"
    @ 3,24 SAY "-------------------------"
    descrp = '                                        '
    descrp2 = '                                        '
    descrp3 = '                                        '
    @ 5,1 SAY "Item description:"
    @ 6,1 GET descrp
    @ 6,41 SAY "<--Only this line is filed"
    @ 7,1 GET descrp2
    @ 8,1 GET descrp3
    @ 8,46 SAY "(Blank ends process.)"
    read
    if descrp = ' ' .and. counter = 1
      do warning
    endif
    if goahead
      if descrp = ' '
        return
      endif
      unt = 'ea'
      uprce = 0.00
      qunt = 0
      @ 11,14 SAY "Unit of issue:"
      @ 11,30 GET unt picture "@A"
      @ 13,14 SAY "Unit price: $"
      @ 13,28 GET uprce picture "99999.99"
      @ 15,14 SAY "Quantity:"
      @ 15,25 GET qunt picture "99999"
      read
      set color to &mscolor
      @ 20,21 SAY "Is this order correct (Y/N)?"
      @ 20,51 GET ok picture "@!"
      set color to &ccolor
      read
      if ok = 'Y' .and. qunt <> 0

        totval = totval + (uprce * qunt)
        do file_itm
        if counter = 1
          select E
```

```
        use &template
        copy to &tempord
        use &tempord
      else
        select E
      endif
      append blank
      replace itemno with counter
      replace descrip with M->descrp
      replace descrip2 with M->descrp2
      replace descrip3 with M->descrp3
      replace unit with M->unt
      replace quant with M->qunt
      replace uprice with M->uprce
      counter = counter + 1
    endif
    if ok = 'Y' .and. qunt = 0
      @ 22,15 SAY "Sorry, but ordering '0' quantity makes no sense."
      set color to &mscolor
      wait &wmsg
      set color to &ccolor
    endif
  endif
enddo
return
```

```
*************************************************************************
*                                                                       *
*  Module Name:  CALC_REQ.PRG                                           *
*                                                                       *
*  Author: Tom Trotter                                                  *
*                                                                       *
*  Purpose:  This module calculates and assigns the appropriate         *
*            requisition number (reqno) for each new requisition.       *
*            An 8-digit reqno is comprised of a 4-digit julian date,    *
*            and the last 4 digits will be the next serial number to    *
*            be used for a specific account.  The only exception is     *
*            when the requisition is for transportation expenses, in    *
*            which case the user is prompted to phone the NPS           *
*            Comptroller to have the last 4 digits assigned.            *
*                                                                       *
*  This module is called by:  NEW_ORDR.PRG                              *
*                                                                       *
*  This module calls:   N / A                                           *
*                                                                       *
*************************************************************************


public reqno
reqno = str(year(today)-1980,1)
if year(today) > 1989
  reqno = str(year(today)-1990,1)
endif
reqno = reqno + substr(str(julian+1000,4),2)
if typeordr = 'XPORT'
  ok = ' '
  ans = 2
  do while ok <> 'Y'
    set scoreboard on
    clear
    @ 6,20 SAY "ENTER TRANSPORTATION SERIAL NUMBER"
    @ 7,20 SAY "----------------------------------"
    @ 9,16 SAY "Transportation requests require issuance of a special"
    @ 10,16 SAY "serial number directly from the comptroller. Phone"
    @ 11,16 SAY "the NPS comptroller at x2257 to obtain."
    @ 13,24 SAY "Select an action: "
    @ 14,24 SAY "------------------"
    @ 15,20 SAY "1.  Ready to enter serial number"
    @ 16,20 SAY "2.  Abort to main menu"
    @ 13,43 GET ans picture "#" range 1,2
    read
    set scoreboard off
    do case
      case ans = 1
        xportno = '     '
        @ 13,0 clear
        @ 13,24 SAY "Enter Serial #:"
        @ 13,40 get xportno picture "XXXX"
        read
        set color to &mscolor
        @ 15,24 SAY "Correct (Y/N)?"
        set color to &ccolor
        @ 15,39 GET ok picture "@!"
        read
        reqno = reqno + xportno
      case ans = 2
        return to master
    endcase
  enddo
else
  public checker
  checker = A->lastused
  check = val(checker) + 1
  if check > val(A->hiserno)
    checker = A->loserno
  else
```

```
      checker = str(check,4)
    endif
    reqno = reqno + checker
  endif
  return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name: CHG_PRICE.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module allows the user to change the price of an item             *
*            if a price revision is received. It is common for items to             *
*            be received at different prices than those used at the time            *
*            of ordering.                                                           *
*                                                                                   *
*  This module is called by: MAIN.PRG                                               *
*                                                                                   *
*  This module calls:   N / A                                                       *
*                                                                                   *
*                                                                                   *
*************************************************************************************


ans = ' '
clear
@ 5,29 SAY "CHANGE ITEM PRICE"
@ 6,29 SAY "-----------------"
@ 8,14 SAY "This module is used when the item's final price"
@ 9,14 SAY "differs from that on the orginal requisition. You"
@ 10,14 SAY "will be shown all items associated with a specific"
@ 11,14 SAY "requisition # or purchase order #. Upon displaying"
@ 12,14 SAY "each item, you will be given the opportunity to"
@ 13,14 SAY "change the item's unit price or scroll to the next"
@ 14,14 SAY "item."
set color to &mscolor
@ 17,28 SAY "Continue (Y/N)?"
@ 17,45 GET ans
set color to &ccolor
read
if upper(ans) <> 'Y'
  return
endif
do while .T.
  ansl = 3
  set scoreboard on
  clear
  @ 8,20 SAY "Preparing to change an item price"
  @ 16,32 SAY "Select:"
  @ 16,41 GET ansl picture "#" range 1,3
  @ 17,22 SAY "--------------------------------"
  @ 18,22 SAY "[  1. Show by requisition #    ]"
  @ 19,22 SAY "[  2. Show by purchase order # ]"
  @ 20,22 SAY "[  3. Return to main menu      ]"
  @ 21,22 SAY "--------------------------------"
  read
  set scoreboard off
  do case
    case ansl = 1
      kind = "Requisition  #"
      select D
      use
      use &item index &reqno_i
      field = "D->reqno"
    case ansl = 2
      kind = "Purchase Order #"
      select D
      use
      use &item index &pono_i
      field = "D->pono"
    case ansl = 3
      return
  endcase
  ans2 = ' '
  do while ans2 <> 'Y'
```

```
  key = '        '
  clear
  @ 9,15 SAY "Enter"
  @ 9,22 SAY kind
  @ 9,38 SAY ":"
  @ 9,41 GET key picture "########"
  @ 11,15 SAY "Note - Blank ends process"
  read
  if key = ' '
    return to master
  endif
  set color to &mscolor
  @ 14,28 SAY "Correct (Y/N)?"
  @ 14,44 GET ans2 picture "@!"
  set color to &ccolor
  read
enddo
find &key
if eof() .or. bof()
  @ 14,0 clear
  @ 14,23 SAY kind
  @ 14,39 SAY "not in file."
  @ 16,11 SAY "Please double check the"
  @ 16,35 SAY kind
  @ 16,53 SAY "and try again."
  set color to &mscolor
  wait &wmsg
  set color to &ccolor
else
  do while &field = key .and. .not. eof()
    ans3 = 'N'
    clear
    @ 7,11 SAY "Requisition #:"
    @ 7,27 SAY reqno
    @ 9,11 SAY "Purchase Ord #:"
    @ 9,28 SAY pono
    @ 11,11 SAY "Item:"
    @ 11,18 SAY descrip
    @ 13,11 SAY "Quantity:"
    @ 13,22 SAY quant
    @ 13,39 SAY "Unit Price: $"
    @ 13,53 SAY uprice
    set color to &mscolor
    @ 16,21 SAY "Change unit price (Y/N)?"
    @ 16,48 GET ans3
    set color to &ccolor
    read
    if upper(ans3) = 'Y'
      newprice = uprice
      @ 13,53 GET newprice picture "#####.##"
      read
      if newprice <> 0
        ans4 = ' '
        @ 16,0 clear
        set color to &mscolor
        @ 16,25 SAY "Correct (Y/N)?"
        @ 16,39 GET ans4
        set color to &ccolor
        read
        if upper(ans4) = 'Y'
          replace uprice with newprice
        endif
      else
        ans4 = 'N'
        set color to &mscolor
        @ 21,21 SAY "Is item now FREE?"
        @ 21,46 GET ans4
        set color to &ccolor
        read
        if upper(ans4) = 'Y'
```

```
            replace uprice with newprice
          endif
        endif
        skip -1
      endif
      skip
    enddo
  endif
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  CONFIG.PRG                                                         *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  After displaying an appropriate warning banner, this module           *
*            displays the current program system configuration and allows           *
*            the user to change it.  Changes are saved to a file of                 *
*            memory variables (config.var).                                         *
*                                                                                   *
*  This module is called by:  MAIN.PRG                                              *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


ans = 'N'
clear
@ 4,32 SAY "CONFIGURATION"
@ 5,32 SAY "-------------"
@ 7,16 SAY "This program has been preconfigured for your use"
@ 8,16 SAY "and should not require reconfiguration unless"
@ 9,16 SAY "transported to another system or department."
@ 11,16 SAY "WARNING - Configuration changes should only be"
@ 12,26 SAY "made by personnel familiar with dBASE III."
set color to GB+/ ,W+/
@ 15,23 SAY "Change Configuration (Y/N)?"
@ 15,52 GET ans
set color to GR+/B,W+/ ,B+
read
if upper(ans) <> 'Y'
  return
endif
clear
restore from config.var
c_sdrv = substr(c_sdrv,1,1)
c_adrv = substr(c_adrv,1,1)
@ 2,17 SAY "This program is configured as follows:"
@ 6,17 SAY "Department:"
@ 6,30 SAY c_dept
@ 8,17 SAY "Bldg:"
@ 8,24 SAY c_bldg
@ 10,17 SAY "Room:"
@ 10,24 SAY c_room
@ 12,17 SAY "Telephone:"
@ 12,29 SAY c_phone
@ 14,17 SAY "Database disk locations: "
@ 15,37 SAY "Suppliers: ' ' drive"
@ 15,49 SAY c_sdrv
@ 17,37 SAY "Accounts:  ' ' drive"
@ 17,49 SAY c_adrv
@ 19,17 SAY "Color Monitor (T/F):"
@ 19,38 SAY c_clrmon
ans = ' '
set color to R/ ,R/W
@ 21,17 SAY "Is this the correct configuration? (Y/N) "
@ 21,60 GET ans
set color to GR+/B, W+/ , B+
read
if upper(ans) = "N"
   ok = .F.
   do while .not. ok
      @ 6,30 GET c_dept
      @ 8,24 GET c_bldg
      @ 10,24 GET c_room
      @ 12,29 GET c_phone
      @ 15,49 GET c_sdrv
```

```
      read
      do while .not. (upper(c_sdrv) = 'A' .or. upper(c_sdrv) = 'B' .or.;
        upper(c_sdrv) = 'C' .or. upper(c_sdrv) = 'D')
         @ 15,49 GET c_sdrv
         read
      enddo
      @ 17,49 GET c_adrv
      read
      do while .not. (upper(c_adrv) = 'A' .or. upper(c_adrv) = 'B' .or. ;
        upper(c_adrv) = 'C' .or. upper(c_adrv) = 'D')
         @ 17,49 GET c_adrv
         read
      enddo
      @ 19,38 GET c_clrmon
      @ 21,60 GET ans
      read
      if upper(ans) = 'Y'
         ok = .T.
         c_sdrv = (c_sdrv) + ':'
         c_adrv = (c_adrv) + ':'
         save to config.var all like c_*
      endif
   enddo
endif
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  DISP_REQ.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module presents the user with menus for use in the                *
*            selection of requisitions for display. The user is given               *
*            the option of screen or printer output.                                *
*                                                                                   *
*  This module is called by:  MAIN.PRG                                              *
*                                                                                   *
*  This module calls:  DIS1_REQ                                                     *
*                      DIS2_REQ                                                     *
*                      DIS3_REQ                                                     *
*                                                                                   *
*************************************************************************************


do while .T.
  ans = ' '
  clear
  @ 7,28 SAY "DISPLAY REQUISITION"
  @ 8,28 SAY "--------------------"
  @ 10,15 SAY "This program will display one or more requisitions"
  @ 11,15 SAY "subject to user selection criteria. The list may"
  @ 12,15 SAY "be sent to the screen or printer at the user's"
  @ 13,15 SAY "option."
  set color to &mscolor
  @ 16,27 SAY "Continue (Y/N)?"
  @ 16,44 GET ans
  set color to &ccolor
  read
  if upper(ans) <> 'Y'
    return
  endif
  pick = 1
  clear
  @ 2,27 SAY "DISPLAY REQUISITIONS"
  set color to &mscolor
  @ 5,29 SAY "Selection:  "
  set color to &ccolor
  @ 5,41 GET pick picture "#" range 0,3
  @ 6,11 SAY "============================================================="
  @ 7,11 SAY "/   0.  Return to main menu                                  /"
  @ 8,11 SAY "/   1.  Display single requisition                          /"
  @ 9,11 SAY "/   2.  Display requisitions from specific account          /"
  @ 10,11 SAY "/   3.  Display requisitions subject to account # & date /"
  @ 11,11 SAY "============================================================="
  read
  if pick = 0
    return
  endif
  outpt = 1
  set color to &mscolor
  @ 14,27 SAY "Select Display:  "
  set color to &ccolor
  @ 14,44 GET outpt picture "#" range 1,2
  @ 15,27 SAY "=================="
  @ 16,27 SAY "/   1.  Screen   /"
  @ 17,27 SAY "/   2.  Printer  /"
  @ 18,27 SAY "=================="
  read
  public prtout
  if outpt = 1
    prtout = .F.
  else
    prtout = .T.
  endif
  do case
```

```
      case pick = 1
        do dis1_req
      case pick = 2
        do dis2_req
      case pick = 3
        do dis3_req
    endcase
  enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  DIS1_REQ.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module outputs the contents of one requisition as                 *
*            selected by the user input of a requisition #.                         *
*                                                                                   *
*  This module is called by: DISP_REQ.PRG                                           *
*                                                                                   *
*  This module calls:  REQ_HDR.PRG                                                  *
*                      WARN_PRT.PRG                                                 *
*                                                                                   *
*************************************************************************************


do while .T.
  clear
  key = '        '
  @ 9,25 SAY "Enter Requisition #:"
  @ 9,47 GET key picture "########"
  @ 11,28 SAY "(Blank ends process.)"
  read
  if key = ' '
    return
  endif
  counter = 0
  marker = 9
  endif
  select C
  use
  use &req index &reqno_r
  find &key
  if eof()
    @ 14,28 SAY "REQUISITION NOT FOUND"
    @ 16,18 SAY "Double check the requisition # and try again."
  else
    totcnt = 0
    value = 0.00
    totval = 0.00
    if prtout
     .do warn_prt
      clear
      @ 10,31 SAY "LOAD PRINTER"
      @ 12,37 SAY "&"
      @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
      set device to print
      @ 1,0 SAY ' '
      wait ''
    endif
    key2 = C->accno
    select A
    use
    use &accnt index &accno_a
    find &key2
    key3 = C->supno
    select B
    use
    use &sup index &supno_s
    find &key3
    do req_hdr
    select D
    use
    use &item index &reqno_i
    find &key
    do while D->reqno = C->reqno .and. .not. eof()
      counter = counter + 1
      marker = marker + 1
      totcnt = totcnt + D->quant
```

```
      value = D->quant * D->uprice
      totval = totval + value
      @ marker,1 SAY counter picture "##"
      @ marker,5 SAY D->descrip
      @ marker,46 SAY "$"
      @ marker,47 SAY D->uprice picture "##,###.##"
      @ marker,57 SAY D->quant picture "#####"
      @ marker,66 SAY D->rcvd
      @ marker,70 SAY D->pono
      if marker > 21 .and. .not. prtout
        marker = 9
        wait &wmsg
        @ 9,0 clear
      endif
      skip
    enddo
    if counter <> 0
      marker = marker + 3
      @ marker,15 SAY "Total items:"
      @ marker,28 SAY totcnt picture "######"
      @ marker,42 SAY "Total Value: $"
      @ marker,57 SAY totval picture "#,###,###.##"
    endif
    if prtout
      @ marker,70 SAY chr(13)
      set device to screen
    else
      set color to &mscolor
      wait &wmsg
      set color to & ccolor
    endif
  endif
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  DIS2_REQ                                                           *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module displays all requisitions from a single account           *
*            as specified by the user.  The SEL_ACCNT module is used to             *
*            select an account, and this module will then skip through              *
*            the req.dbf and item.dbf until all requisitions for the                *
*            account have been displayed.                                           *
*                                                                                   *
*  This module is called by:  DISP_REQ.PRG                                          *
*                                                                                   *
*  This module calls:  SEL_ACNT.PRG                                                 *
*                      REQ_HDR.PRG                                                  *
*                      WARN_PRT.PRG                                                 *
*                                                                                   *
*************************************************************************************

    do sel_acnt
    key = A->accno
    select C
    use
    use &req index &accno_r
    find &key
    if eof()
      clear
      @ 15,18 SAY "No Requisitions on file for
      @ 17,20 SAY "Account Name:"
      @ 17,34 SAY A->aname
      @ 19,20 SAY "Account Number:"
      @ 19,36 SAY A->accno
    else
      clear
      if prtout
        do warn_prt
        clear
        @ 10,31 SAY "LOAD PRINTER"
        @ 12,37 SAY "&"
        @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
        set device to print
        @ 1,0 SAY ' '
        wait ''
      endif
      do while C->accno = A->accno .and. .not. eof()
        key2 = C->supno
        select B
        use
        use &sup index &supno_s
        find &key2
        counter = 0
        marker = 9
        totcnt = 0
        value = 0.00
        totval = 0.00
        do req_hdr
        key3 = C->reqno
        select D
        use
        use &item index &reqno_i
        find &key3
        endif
        do while D->reqno = C->reqno .and. .not. eof()
          counter = counter + 1
          marker = marker + 1
          totcnt = totcnt + quant
          value = D->quant * D->uprice
          totval = totval + value
```

```
      @ marker,1 SAY counter picture "###"
      @ marker,5 SAY D->descrip
      @ marker,46 SAY "$"
      @ marker,47 SAY D->uprice
      @ marker,57 SAY D->quant
      @ marker,66 SAY D->rcvd
      @ marker,70 SAY D->pono
      if marker > 21 .and. .not. prtout
        marker = 9
        set color to &mscolor
        wait &wmsg
        set color to &ccolor
        @ 9,0 clear
      endif
      skip
    enddo
    if counter <> 0
      marker = marker + 3
      @ marker,15 SAY "Total items:"
      @ marker,28 SAY totcnt picture "######"
      @ marker,42 SAY "Total value: $"
      @ marker,57 SAY totval picture "*,###,###.##"
    endif
    select C
    skip
    if .not. prtout
      set color to &mscolor
      wait &wmsg
      set color to &ccolor
    endif
  enddo
  if prtout
    @ marker,70 SAY chr(13)
    set device to screen
  endif
endif
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  DIS3_REQ.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module displays all requisitions from a user selected             *
*            account, subject to a screen on the origin date of the                 *
*            requisition.  Output may be directed to the screen or the              *
*            printer at the user's option.                                          *
*                                                                                   *
*  This module is called by:  DISP_REQ.PRG                                          *
*                                                                                   *
*  This module calls:  SEL_ACNT.PRG                                                 *
*                      REQ_HDR.PRG                                                  *
*                      WARN_PRT.PRG                                                 *
*                                                                                   *
*************************************************************************************


  hidate = today
  lodate = CTOD("10/1/85")
  clear
  @ 6,26 SAY "-------------------------"
  @ 8,26 SAY "Find Requisitions Created"
  @ 10,34 SAY "Between"
  @ 12,26 GET lodate
  @ 12,36 SAY "and"
  @ 12,43 GET hidate
  @ 13,26 SAY "mm/dd/yy          mm/dd/yy"
  read
  do sel_acnt
  counter = 0
  marker = 9
  key = A->accno
  select C
  use
  use &req index &accno_r
  find &key
  if eof()
    clear
    @ 8,25 SAY "No Requisitions Are on File For"
    @ 10,29 SAY "Account Name:"
    @ 10,44 SAY A->aname
    @ 12,29 SAY "Account Number:"
    @ 12,46 SAY A->accno
    @ 14,36 SAY "Between"
    @ 16,27 SAY lodate
    @ 16,38 SAY "and"
    @ 16,46 SAY hidate
  else
    clear

    if prtout
      do warn_prt
      clear
      @ 10,31 SAY "LOAD PRINTER"
      @ 12,37 SAY "&"
      @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
      set device to print
      @ 1,0 SAY ' '
      wait ''
    endif
    do while C->accno = A->accno .and. .not. eof()
      if C->rdate >= lodate .and. C->rdate <= hidate
        key2 = C->supno
        select B
        use
        use &sup index &supno_s
        find &key2
```

```
      totcnt = 0
      value = 0.00
      totval = 0.00
      counter = 0
      marker = 9
      do req_hdr
      key3 = C->reqno
      select D
      use
      use &item index &reqno_i
      find &key3
      do while D->reqno = C->reqno .and. .not. eof()
        counter = counter + 1
        marker = marker + 1
        @ marker,1 SAY counter picture "###"
        @ marker,5 SAY D->descrip
        @ marker,46 SAY "$"
        @ marker,47 SAY D->uprice
        @ marker,57 SAY D->quant
        @ marker,66 SAY D->rcvd
        @ marker,70 SAY D->pono
        totcnt = D->quant + totcnt
        value = D->quant * D->uprice
        totval = value + totval
        if marker > 21 .and. .not. prtout
          marker = 9
          set color to &mscolor
          wait &wmsg
          set color to &ccolor
          @ 9,0 clear
        endif
        skip
      enddo
      if counter <> 0
        marker = marker + 3
        @ marker,15 SAY "Total Items:"
        @ marker,28 SAY totcnt picture "#####"
        @ marker,45 SAY "Total Value: $"
        @ marker,60 SAY totval picture "#,###,###.##"
        set color to &mscolor
        wait &wmsg
        set color to &ccolor
      endif
    endif
    select C
    skip
  enddo
  if prtout
    @ marker,70 SAY chr(13)
    set device to screen
  endif
  if counter = 0
    clear
    @ 8,25 SAY "No Requisitions Are on File For"
    @ 10,29 SAY "Account Name:"
    @ 10,44 SAY A->aname
    @ 12,29 SAY "Account Number:"
    @ 12,46 SAY A->accno
    @ 14,36 SAY "Between"
    @ 16,27 SAY lodate
    @ 16,38 SAY "and"
    @ 16,46 SAY hidate
    set color to &mscolor
    wait &wmsg
    set color to &ccolor
  endif
endif
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  FILE_ITM.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module is used to append a blank record to the item.dbf           *
*            and fill in several fields from current memory variables.              *
*                                                                                   *
*  This module is called by:  BUY2_ITM.PRG                                          *
*                             FORM_ORD.PRG                                          *
*                             PUB_ORD.PRG                                           *
*                             STK_ORDR.PRG                                          *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


select D
use
use &item index &reqno_i,&pono_i
append blank
replace descrip with M->descrp
replace unit with M->unt
replace quant with M->qunt
replace uprice with M->uprce
replace reqno with M->reqno
use
return
```

```
*************************************************************************
*                                                                       *
*  Module Name:  FILE_REQ.PRG                                           *
*                                                                       *
*  Author: Tom Trotter                                                  *
*                                                                       *
*  Purpose:  This module is used to append a blank record to the req.dbf *
*            and fill in several fields from current memory variables.  *
*                                                                       *
*  This module is called by:  XPOR_ORD.PRG                              *
*                             FORM_ORD.PRG                              *
*                             PUB_ORD.PRG                               *
*                             STK_ORDR.PRG                              *
*                             OPN_ORDR.PRG                              *
*                             RSS_ORD.PRG                               *
*                                                                       *
*  This module calls:  N / A                                            *
*                                                                       *
*************************************************************************

select C
use
use &req index &reqno_r,&accno_r
append blank
replace reqno with M->reqno
replace accno with M->accno
replace pri_code with M->pri
replace supno with M->supno
replace rdate with M->today
if typeordr <> 'XPORT'
  select A
  replace lastused with M->checker
endif
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  FORM_ORD.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module coordinates the process of ordering forms                  *
*            from NSC Oakland.                                                      *
*                                                                                   *
*  This module is called by:  NEW_ORDR.PRG                                          *
*                                                                                   *
*  This module calls:  GET_RDD.PRG                                                  *
*                      GET_CAT.PRG                                                  *
*                      GET_PRI.PRG                                                  *
*                      BUYI_ITM.PRG                                                 *
*                      FILE_REQ.PRG                                                 *
*                      FILE_ITM.PRG                                                 *
*                                                                                   *
*************************************************************************************


ans = ' '
clear
@ 8,33 SAY "FORMS  ORDER"
@ 9,33 SAY "------------"
@ 11,13 SAY "This program prepares the documents required to order"
@ 12,13 SAY "forms from NSC OAKLAND.  If you desire to order forms"
@ 13,13 SAY "from NAVPUBFORMCEN Philadelphia, do not continue."
set color to &mscolor
@ 16,30 SAY "Continue (Y/N)?"
set color to &ccolor
@ 16,47 GET ans
read
if upper(ans) <> 'Y'
  return
endif
public sendto,supno,route
sendto = '(00228) NSC OAKLAND, CA'
supno = '1111'
route = 'NOZ'
do get_rdd
do get_pri
do get_cat
do buyl_itm
public docid,signal,fund
docid = 'A0D'
signal = 'A'
if uprce = 0
  fund = 'Y6'
else
  fund = '2S'
endif
do prt1348a
do file_req
do file_itm
return to master
```

```
*************************************************************************
*                                                                       *
*  Module Name:  GET_CAT.PRG                                            *
*                                                                       *
*  Author: Tom Trotter                                                  *
*                                                                       *
*  Purpose:  This module presents the user with a menu from which to    *
*            select the appropriate category of items to be purchased.  *
*            Other memory variable assignments are made based upon the  *
*            category selected by the user.  The user is also queried   *
*            concerning the recurring nature of the demand.             *
*                                                                       *
*  This module is called by: FORM_ORD.PRG                               *
*                            OPN_ORDR.PRG                               *
*                            PUB_ORD.PRG                                *
*                            STK_ORDR.PRG                               *
*                            XPOR_ORD.PRG                               *
*                                                                       *
*  This module calls:  N / A                                            *
*                                                                       *
*************************************************************************


public supadr,rmko
ans = ' '
if typeordr = 'OPEN' .or. typeordr = 'STOCK'
  do while ans <> 'Y'
    ansl = 1
    clear
    @ 0,20 SAY "SELECT CATEGORY OF ITEMS TO BE PURCHASED"
    @ 1,20 SAY "----------------------------------------"
    @ 3,11 SAY "1.  CONSUMABLE SUPPLIES (e.g. subscriptions to periodicals"
    @ 4,17 SAY "cables, floppy disks, misc items for micro computers,"
    @ 5,17 SAY "and other items having a useful life of < 1 year)."
    @ 7,11 SAY "2.  MINOR PROPERTY (i.e. unit value > $ 1000. and a useful"
    @ 8,17 SAY "life of at least 2 years)."
    @ 10,11 SAY "3.  PLANT PROPERTY (i.e. unit value > $ 1000.)"
    @ 12,11 SAY "4.  MAINTENANCE FOR MINOR PROPERTY"
    @ 14,11 SAY "5.  MAINTENANCE FOR PLANT PROPERTY"
    @ 16,11 SAY "6.  OTHER PURCHASED SERVICES"
    @ 18,6 SAY "Note - All items on single requisition must be of same "
    @ 18,61 SAY "category"
    @ 19,13 SAY "(e.g. cannot order hardware & software on the same order).  "
    @ 21,23 SAY "Selection:"
    @ 21,35 GET ansl picture "#" range 1,6
    read
    set color to &mscolor
    @ 23,21 SAY "Correct (Y/N)?"
    @ 23,37 GET ans picture "@!"
    set color to &ccolor
    read
  enddo
endif
if typeordr = 'FORM' .or. typeordr = 'PUB' .or. typeordr = 'RSS$'
  ansl = 1
endif
if typeordr = 'XPORT'
  ansl = 7
endif
do case
  case ansl = 1
    rmko = 'T'
    supadr = 'T' + trim(A->accno) + '00'
  case ansl = 2
    rmko = 'W'
    supadr = 'W' + trim(A->accno) + 'MA'
  case ansl = 3
    rmko = 'W'
    supadr = 'W' + trim(A->accno) + 'PA'
  case ansl = 4
```

```
    rmko = 'P'
    supadr = 'P' + trim(A->accno) + 'MM'
  case ansl = 5
    rmko = 'P'
    supadr = 'P' + trim(A->accno) + 'PM'
  case ansl = 6
    rmko = 'Q'
    supadr = 'Q' + trim(A->accno) + 'QS'
  case ansl = 7
    rmko = 'L'
    supadr = 'L' + trim(A->accno) + '00'
endcase
if A->research
  supadr = A->accno
endif
public demand
if typeordr = 'RSS$'
  demand = 'R'
else
  ans = ' '
  ans2 = ' '
  do while ans2 <> 'Y'
    clear
    @ 8,29 SAY "SPECIFY DEMAND TYPE"
    @ 9,29 SAY "--------------------"
    @ 11,18 SAY "Is there a recurring demand for the"
    @ 12,18 SAY "items/services on this requisition (Y/N)?"
    @ 12,62 GET ans picture "@!"
    read
    set color to &mscolor
    @ 15,30 SAY "Correct (Y/N)?"
    @ 15,46 GET ans2 picture "@!"
    set color to &ccolor
    read
    if ans = 'Y'
      demand = 'R'
    else
      demand = 'N'
    endif
  enddo
endif
return
```

```
*************************************************************************
*                                                                       *
*  Module Name:  GET_DATE.PRG                                           *
*                                                                       *
*  Author: Tom Trotter                                                  *
*                                                                       *
*  Purpose:  Since dBASE III does not allow one to change the system    *
*            date from within dBASE, this module allows the user to     *
*            update the memory var (TODAY) if it is in error. It also   *
*            will allow generation of documents dated other than the    *
*            current date.  After the desired date is confirmed by the  *
*            user, a julian date is calculated. Leap years are accounted*
*            for in the julian date calculation.                        *
*                                                                       *
*  This module is called by:  MAIN.PRG                                  *
*                                                                       *
*  This module calls:   N / A                                           *
*                                                                       *
*************************************************************************

clear memory
today = date()
do while .T.
  ans = ' '
  clear
  @ 5,28 SAY "CONFIRM TODAY'S DATE"
  @ 7,33 SAY today
  @ 9,31 SAY "(Y/N)?"
  @ 9,39 GET ans
  read
  if upper(ans) <> 'Y'
    clear
    @ 5,28 SAY "ENTER TODAY'S DATE"
    @ 7,33 GET today picture "@D"
    @ 8,33 SAY "MM/DD/YR"
    @ 15,10 SAY "Note - Leading zeros are required for single digit values."
    read
  else
    mon = month(today)
    do case
      case mon = 1
        julian = 0
      case mon = 2
        julian = 31
      case mon = 3
        julian = 59
      case mon = 4
        julian = 90
      case mon = 5
        julian = 120
      case mon = 6
        julian = 150
      case mon = 7
        julian = 181
      case mon = 8
        julian = 212
      case mon = 9
        julian = 243
      case mon = 10
        julian = 273
      case mon = 11
        julian = 304
      case mon = 12
        julian = 334
    endcase
    julian = julian + day(today)
    if int(year(today)/4) * 4 = year(today) .and. month(today) > 2
      julian = julian + 1
    endif
```

```
    save to date.var all except ans
    return
  endif
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  GET_PRI.PRG                                                        *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module presents the user with a menu for the selection           *
*            of an order priority.  If the user selects pri "A" he is              *
*            warned that it requires approval by the NPS superintendent.           *
*            Other memory variables are assigned values for document               *
*            generation based upon the user's selection.                           *
*                                                                                   *
*  This module is called by:  FORM.ORD.PRG                                          *
*                             OPN_ORDR.PRG                                          *
*                             PUB_ORD.PRG                                           *
*                             STK.ORDR.PRG                                          *
*                             XPOR_ORD.PRG                                          *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


public pri
ok = ' '
ok1 = ' '
pri = 'C'
do while .T.
  clear
  @ 4,30 SAY "ORDER PRIORITY"
  @ 6,12 SAY "A - Requirement is immediate and without the material"
  @ 7,16 SAY "required, the activity is unable to perform one"
  @ 8,16 SAY "or more of its primary missions."
  @ 9,17 SAY "(Note: Requires NPS Superintendent approval)"
  @ 11,12 SAY "B - Requirement is immediate or it is known that such"
  @ 12,16 SAY "a requirement will occur in the immeidate future."
  @ 14,12 SAY "C - Routine requirement."
  @ 17,19 SAY "Select appropriate order priority:"
  @ 17,55 GET pri picture "@!"
  read
  set color to &mscolor
  @ 19,30 SAY "Correct (Y/N)?"
  @ 19,46 GET ok picture "@!"
  set color to &ccolor
  read
  if ok = 'Y' .and. pri <> 'A'
    ok1 = 'Y'
  endif
  if ok = 'Y' .and. pri = 'A'
    clear
    @ 7,34 SAY "NOTICE"
    @ 8,31 SAY "------------"
    @ 10,10 SAY "A priority code of °A' requires NPS Superintendent approval."
    set color to &mscolor
    @ 14,18 SAY "Have you obtained approval (Y/N)?"
    @ 14,53 GET ok1 picture "@!"
    set color to &ccolor
    read
  endif
  if ok = 'Y' .and. ok1 = 'Y'
    public ms_code,priority
    good = .F.
    do case
      case pri = 'A'
        ms_code = 'W'
        priority = '08'
        good = .T.
      case pri = 'B'
        ms_code = 'T'
        priority = '10'
```

```
          good = .T.
        case pri = 'C'
          ms_code = 'T'
          priority = '15'
          good = .T.
      endcase
      if good
        return
      endif
    endif
  enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  GET_RDD.PRG                                                        *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module queries the user for a "required delivery date."           *
*            It will accept RDD values from 1 to 366. If the user opts              *
*            to specify an RDD, RDD_YES will be given a value of .T., and           *
*            the memory variable RDD will be assigned a value (1-366).              *
*                                                                                   *
*  This module is called by: FORM_ORD.PRG                                           *
*                            OPN_ORDR.PRG                                           *
*                            PUB_ORD.PRG                                            *
*                            STK_ORDR.PRG                                           *
*                            XPOR_ORD.PRG                                           *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


public rdd_yes,rdd
rdd = 1
ans = ' '
do while .T.
  rdd_yes = .F.
  clear
  @ 6,24 SAY "REQUIRED DELIVERY DATE (RDD)"
  @ 8,16 SAY "This is an optional 3 digit Julian date when the"
  @ 9,16 SAY "material or service is required. It is used to"
  @ 10,16 SAY "assist in the placement of the order."
  set color to &mscolor
  @ 12,22 SAY "Desire to specify an RDD (Y/N):"
  @ 12,55 GET ans
  set color to &ccolor
  read
  if upper(ans) = 'Y'
    set scoreboard on
    rdd_yes = .T.
    ok = ' '
    @ 14,30 SAY "Enter RDD:"
    @ 14,42 GET rdd picture "###" range 1,366
    read
    set scoreboard off
    @ 14,42 SAY rdd picture "###"
    set color to &mscolor
    @ 16,30 SAY "RDD Correct (Y/N):"
    @ 16,49 GET ok
    set color to &ccolor
    read
    if upper(ok) = 'Y'
      return
    endif
  else
    return
  endif
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name: IN_PONO.PRG                                                         *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module permits the user to write a purchase order                 *
*            number into the PONO field of the ITEM.dbf.  This cannot               *
*            be done at the time the requisition is originated,                     *
*            because the PONO is not then known.                                    *
*                                                                                   *
*  This module is called by:  MAIN.PRG                                              *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


ans = 'Y'
clear
@ 6,23 SAY "INPUT PURCHASE ORDER NUMBER (PO#)"
@ 7,23 SAY "----------------------------------"
@ 9,11 SAY "Once a PO# is received from supply, this program permits"
@ 10,11 SAY "entry of the PO# for each item ordered.  Since not all"
@ 11,11 SAY "items on the original requisition may have been ordered"
@ 12,11 SAY "by supply on the same purchase order, you are requested"
@ 13,11 SAY "to separately confirm each item on the purchase order."
set color to &mscolor
@ 16,30 SAY "Continue (Y/N)?"
@ 16,47 GET ans
set color to &ccolor
read
if upper(ans) <> 'Y'
  return
endif
ans = ' '
do while .T.
  clear
  key = '        '
  @ 1,33 SAY "ENTER DATA"
  @ 2,33 SAY "----------"
  @ 3,22 SAY "Requisition # :"
  @ 3,39 GET key picture "@#########"
  @ 4,26 SAY "(Blank ends process)"
  read
  if key = ' '
    return
  endif
  tempid = '        '
  @ 6,22 SAY "Purchase Order #:"
  @ 6,41 GET tempid picture "@#########"
  set color to &mscolor
  @ 8,27 SAY "Correct (Y/N)?"
  @ 8,43 GET ans
  set color to &ccolor
  read
  if upper(ans) = 'Y'
    select D
    use
    use &item index &reqno_i,&pono_i
    find &key
    if eof() .or. bof()
      @ 8,0 clear
      @ 10,29 SAY "REQUISITION NOT IN FILE"
      @ 12,14 SAY "Please double check the requisition # and try again."
      set color to &mscolor
      wait &wmsg
      set color to &ccolor
    else
      do while D->reqno = key .and. .not. eof()
```

```
        ans2 = ' '
        clear
        @ 7,18 SAY "Requisition #:"
        @ 7,34 SAY D->reqno
        @ 9,18 SAY "Item:"
        @ 9,25 SAY D->descrip
        @ 11,18 SAY "Quantity:"
        @ 11,29 SAY D->quant
        @ 13,18 SAY "Unit Price:"
        @ 13,31 SAY D->uprice
        set color to &mscolor
        @ 18,14 SAY "Is this item on purchase #"
        @ 18,42 SAY tempid
        @ 18,53 SAY "(Y/N)?"
        @ 18,61 GET ans2
        set color to &ccolor
        read
        if upper(ans2) = 'Y'
          replace pono with M->tempid
        endif
        skip
      enddo
    endif
  endif
enddo
```

```
*****************************************************************************
*                                                                           *
*  Module Name:  IN_RCVD.PRG                                                *
*                                                                           *
*  Author: Tom Trotter                                                      *
*                                                                           *
*  Purpose:  This module permits notation of receipt of items in the        *
*            RCVD field in the ITEM.dbf.  The item may be                   *
*            specified by requisition # (REQNO) or purchase order #        *
*            (PONO)                                                        *
*                                                                           *
*  This module is called by:  MAIN.PRG                                      *
*                                                                           *
*  This module calls:  N / A                                                *
*                                                                           *
*****************************************************************************


ans = 'Y'
clear
@ 3,30 SAY "INPUT RECEIPT STATUS"
@ 4,30 SAY "--------------------"
@ 6,16 SAY "You will be given the opportunity to indicate if"
@ 7,16 SAY "specific items, currently not marked as received,"
@ 8,16 SAY "have now been received. Items reviewed will be"
@ 9,16 SAY "grouped by requisition number or purchase order"
@ 10,16 SAY "number at your option."
set color to &mscolor
@ 12,30 SAY "Continue (Y/N)?"
@ 12,47 GET ans
set color to &ccolor
read
if upper(ans) <> 'Y'
  return
endif
do while .T.
  clear
  set scoreboard on
  @ 7,22 SAY "PREPARING TO MARK ITEMS RECEIVED"
  ansl = 1
  @ 16,32 SAY "Select:"
  @ 16,41 GET ansl picture "#" range 1,3
  @ 17,22 SAY "--------------------------------"
  @ 18,22 SAY "[  1. Show by requisition #    ]"
  @ 19,22 SAY "[  2. Show by purchase order # ]"
  @ 20,22 SAY "[  3. Return to main menu      ]"
  @ 21,22 SAY "--------------------------------"
  read
  set scoreboard off
  do case
    case ansl = 1
      kind = "Requisition  #  "
      select D
      use
      use &item index &reqno_i
      field = "D->reqno"
    case ansl = 2
      kind = "Purchase Order #"
      select D
      use
      use &item index &pono_i
      field = "D->pono"
    case ansl = 3
      return
  endcase
  ans2 = 'Y'
  key = '        '
  clear
  @ 9,15 SAY "Enter"
  @ 9,22 SAY kind
```

```
@ 9,38 SAY ":"
@ 9,41 GET key picture "@!!!!!!!!"
@ 11,15 SAY "Note - Blank ends process"
read
if key = '         '
  return to master
endif
set color to &mscolor
@ 14,28 SAY "Correct (Y/N)?"
@ 14,44 GET ans2
set color to &ccolor
read
if upper(ans2) = 'Y'
  find &key
  if eof() .or. bof()
    @ 14,0 clear
    @ 14,24 SAY kind
    @ 14,40 SAY " not on file."
    @ 16,14 SAY "Please double check the "
    @ 16,38 SAY kind
    @ 16,54 SAY " and try again."
    set color to &mscolor
    wait &wmsg
    set color to &ccolor
    clear
  else
    counter = 0
    do while &field = key .and. .not. eof()
      if .not. rcvd
        counter = counter + 1
        ans3 = ' '
        clear
        @ 3,18 SAY "The following item shown as not received"
        @ 7,11 SAY "Requisition #:"
        @ 7,27 SAY reqno
        @ 9,11 SAY "Purchase Ord #:"
        @ 9,28 SAY pono
        @ 11,11 SAY "Item:"
        @ 11,18 SAY descrip
        @ 13,11 SAY "Quantity:"
        @ 13,22 SAY quant
        @ 13,39 SAY "Unit Price: $"
        @ 13,53 SAY uprice
        set color to &mscolor
        @ 19,21 SAY "Has this item been received (Y/N)?"
        @ 19,56 GET ans3
        set color to &ccolor
        read
        if upper(ans3) = 'Y'
          replace rcvd with .T.
        endif
      endif
      skip
    enddo
    if counter = 0
      clear
      if ans1 = 1
        @ 12,18 SAY "All items for requisition #"
        @ 12,47 SAY &key
      else
        @ 12,16 SAY "All items for purchase order #"
        @ 12,47 SAY &key
      endif
      @ 14,18 SAY "have been previously marked as received."
      set color to &mscolor
      wait &wmsg
      set color to &ccolor
    endif
  endif
endif
```

```
  clear
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  MAIN.PRG                                                           *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  Since this module is the first to be invoked, it is refered           *
*            to in dBASE III as the master module. It sets up the                  *
*            initialization of key memory variables and presents the               *
*            main menu for program selection.                                      *
*                                                                                   *
*  This module is called by:   N / A                                                *
*                                                                                   *
*  This module calls:  WELCOME.PRG                                                  *
*                      CONFIG.PRG                                                   *
*                      GET_DATE.PRG                                                 *
*                      NEW_ORDR.PRG                                                 *
*                      IN_PONO.PRG                                                  *
*                      IN_RCVD.PRG                                                  *
*                      SHW_NRI.PRG                                                  *
*                      DISP_REQ.PRG                                                 *
*                      CHG_PRIC.PRG                                                 *
*                      NEW_SUPL.PRG                                                 *
*                      NEW_ACNT.PRG                                                 *
*                      QUIT.PRG                                                     *
*                                                                                   *
*************************************************************************************


set help off
set talk off
set delete on
set safety off
set console on
set escape off
do welcome
do config
do get_date
do while .T.
  clear all
  public today,julian,wmsg
  wmsg = '"                                                                    ;
                                                    Press any key to continue..."'
  public sup,sname_s,supno_s, template,tempord
  public item,reqno_i,pono_i,req,reqno_r,accno_r,accnt,aname_a,accno_a
  restore from date.var additive
  public c_dept,c_bldg,c_room,c_phone
  restore from config.var additive
  sup = c_sdrv + "sup"
  sname_s = c_sdrv + "sname_s"
  supno_s = c_sdrv + "supno_s"
  template = c_adrv + "template"
  tempord = c_adrv + "tempord.dbf"
  item = c_adrv + "item"
  reqno_i = c_adrv + "reqno_i"
  pono_i = c_adrv + "pono_i"
  req = c_adrv + "req"
  reqno_r = c_adrv + "reqno_r"
  accno_r = c_adrv + "accno_r"
  accnt = c_adrv + "accnt"
  aname_a = c_adrv + "aname_a"
  accno_a = c_adrv + "accno_a"
  fy_id = c_adrv + "fy.id"
  public fy
  restore from &fy_id additive
  public ccolor,mscolor,errcolor
  if c_clrmon
    store "GR+/B,W+/ ,B+" to ccolor
    store "GR+/ ,GR+/ " to mscolor
    store "R+" to errcolor
```

```
  else
    store "W+/ " to ccolor
    store "W+/ " to mscolor
    store "W+/ " to errcolor
  endif
  set color to &ccolor
  choice = 0
  set scoreboard on
  clear
  @ 3,10 SAY "============================================================="
  @ 4,10 SAY "=                                                           ="
  @ 5,10 SAY "=                SUPPLY  REQUISITION  DATABASE              ="
  @ 6,10 SAY "=                                                           ="
  @ 7,10 SAY "============================================================="
  @ 8,10 SAY "=                                                           ="
  @ 9,10 SAY "=          0.  Exit                                         ="
  @ 10,10 SAY "=          1.  Place an order                                ="
  @ 11,10 SAY "=          2.  Update files with purchase order #            ="
  @ 12,10 SAY "=          3.  Mark items received                           ="
  @ 13,10 SAY "=          4.  List items not yet received                   ="
  @ 14,10 SAY "=          5.  Display a specific requisition                ="
  @ 15,10 SAY "=          6.  Change an item price                          ="
  @ 16,10 SAY "=          7.  Enter a new supplier                          ="
  @ 17,10 SAY "=          8.  Create a new account                          ="
  @ 18,10 SAY "=                                                           ="
  @ 19,10 SAY "==================Your choice > <============================"

  @19,41 GET choice picture '#' range 0,8
  read
  set scoreboard off
  do case
    case choice = 0
      do quit
    case choice = 1
      do new_ordr
    case choice = 2
      do in_pono
    case choice = 3
      do in_rcvd
    case choice = 4
      do shw_nri
    case choice = 5
      do disp_req
    case choice = 6
      do chg_pric
    case choice = 7
      do new_supl
    case choice = 8
      do new_acnt
  endcase
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  NEW_ACNT.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module allows the user to set up a new account by                 *
*            appending a blank record to the ACCNT.dbf and filling                  *
*            in all fields.                                                         *
*                                                                                   *
*  This module is called by:  MAIN.PRG                                              *
*                             SEL_ACNT                                              *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


ans = ' '
do while ans <> 'Y'
  clear
  @ 3,28 SAY "CREATE A NEW ACCOUNT"
  @ 4,28 SAY "--------------------"
  @ 6,14 SAY "In order to enter a new account you must have"
  @ 7,14 SAY "the following information available at this time:"
  @ 9,17 SAY "Account Name"
  @ 10,17 SAY "Account # (assigned by NPS Comptroller)"
  @ 11,17 SAY "Serial # range assigned to account"
  @ 12,17 SAY "Is it a research account?"
  @ 14,14 SAY "WARNING - If you do not understand any of the"
  @ 15,24 SAY "above items, seek assistance and do"
  @ 16,24 SAY "not continue further at this time."
  @ 19,27 SAY "Continue (Y/N)?"
  @ 19,44 GET ans picture "@!"
  read
  if upper(ans) = 'N'
    return
  endif
enddo
select A
use
use &accnt index &aname_a,&accno_a
append blank
do while .T.
  ans = ' '
  clear
  @ 1,25 SAY "INPUT NEW ACCOUNT"
  @ 2,25 SAY "-----------------"
  @ 5,22 SAY "Account Name:"
  @ 5,37 GET aname picture "@!"
  @ 7,22 SAY "Account Number:"
  @ 7,39 GET accno picture "@!"
  @ 9,22 SAY "Code:"
  @ 9,29 GET code picture "@!"
  @ 11,22 SAY "Research Account (T/F):"
  @ 11,47 GET research picture "L"
  @ 13,22 SAY "Requisition Serial # Range -  From:"
  @ 13,59 GET loserno picture "9999"
  @ 14,52 SAY "To:"
  @ 14,59 GET hiserno picture "9999"
  @ 15,22 SAY "Last Serial # Used:"
  @ 15,43 GET lastused picture "####"
  @ 16,22 SAY "(leave blank if account never used yet)"
  read
  if lastused = ' '
    replace lastused with loserno
  endif
  @ 19,27 SAY "Correct (Y/N)?"
  @ 19,43 GET ans
  read
```

```
  if upper(ans) = 'Y'
    return
  endif
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  NEW_ORDR.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module serves as the menu driver for the activities               *
*            required in the generation of new orders.  It assigns a                *
*            value to the public memory variable TYPEORDR based upon                *
*            the user's selection.                                                  *
*                                                                                   *
*  This module is called by:  MAIN.PRG                                              *
*                                                                                   *
*  This module calls:  CALC_REQ.PRG                                                 *
*                      FORM_ORD.PRG                                                 *
*                      OPN_ORD.PRG                                                  *
*                      PUB_ORD.PRG                                                  *
*                      RSS_ORD.PRG                                                  *
*                      SEL_ACNT.PRG                                                 *
*                      STK_ORD.PRG                                                  *
*                      XPOR_ORD.PRG                                                 *
*                                                                                   *
*************************************************************************************


do while .T.
  order = 7
  clear
  set scoreboard on
  @ 3,29 SAY "PLACE AN ORDER"
  @ 5,10 SAY "The purpose of this program is to generate the appropri"
  @ 5,65 SAY "ate"
  @ 6,10 SAY "supply forms (DD 1348-6 &/or SF 36) to place an order."
  @ 9,24 SAY "Select the type of order"
  @ 11,10 SAY "1.  Open Purchase"
  @ 12,10 SAY "2.  Standard stock items from NPS RSS, NSC Oakland, or GSA"
  @ 13,10 SAY "3.  Standard forms from NSC Oakland"
  @ 14,10 SAY "4.  Publications from NAVPUBFORMCEN Phil"
  @ 15,10 SAY "5.  $$ Reimbursement to NPS Ready Supply Store"
  @ 16,10 SAY "6.  Transportation of material (e.g. Federal Express)"
  @ 17,10 SAY "7.  Return to main menu"
  @ 20,26 SAY "Your order:"
  @ 20,41 GET order picture "#" range 1,7
  read
  set scoreboard off
  public typeordr,service
  service = substr(fy,2,1)
  typeordr = ' '
  if order <> 6 .and. order <> 7
    do sel_acnt
    do calc_req
  endif
  do case
    case order = 1
      typeordr = 'OPEN'
      do opn_ordr
    case order = 2
      typeordr = 'STOCK'
      do stk_ordr
    case order = 3
      typeordr = 'FORM'
      do form_ord
    case order = 4
      typeordr = 'PUB'
      do pub_ord
    case order = 5
      typeordr = 'RSS$'
      do rss_ord
    case order = 6
      typeordr = 'XPORT'
```

```
      do sel_acnt
      do calc_req
      do xpor_ord
    case order = 7
      return to master
  endcase
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  NEW_SUPL.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module allows the user to enter a new supplier by                 *
*            appending a blank record to the SUP.dbf and filling in                 *
*            all fields.                                                            *
*                                                                                   *
*  This module is called by:  MAIN.PRG                                              *
*                             SEL_SUPL.PRG                                          *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


ans = ' '
do while ans <> 'Y'
  clear
  @ 4,26 SAY "INPUT A NEW SUPPLIER"
  @ 5,26 SAY "---------------------"
  @ 7,12 SAY "In order to input a new supplier, you must have the"
  @ 8,12 SAY "following information available at this time:"
  @ 10,29 SAY "Supplier Name"
  @ 11,29 SAY "Address"
  @ 12,29 SAY "Phone #"
  @ 14,12 SAY "The phone number is mandatory. Do not proceed unless"
  @ 15,12 SAY "you are ready to enter the above information."
  @ 18,25 SAY "Continue (Y/N) ?"
  @ 18,43 GET ans picture "@!"
  read
  if ans = 'N'
    return
  endif
enddo
select B
use
use &sup index &supno_s,&sname_s
append blank
do while .T.
  ans = ' '
  clear
  @ 3,27 SAY "INPUT  NEW  SUPPLIER"
  @ 4,27 SAY "---------------------"
  @ 6,15 SAY "Name:"
  @ 6,23 GET sname
  @ 8,15 SAY "Address:"
  @ 8,25 GET addr
  @ 10,15 SAY "City:"
  @ 10,22 GET city
  @ 10,38 SAY "State:"
  @ 10,46 GET state picture "@!"
  @ 10,52 SAY "Zip:"
  @ 10,58 GET zip
  @ 12,15 SAY "Phone: (   )"
  @ 12,23 GET areacode picture "@###"
  @ 12,28 GET fone picture "@###-####"
  @ 14,15 SAY "Note - Phone # is mandatory"
  read
  @ 16,26 SAY "Is this correct?"
  @ 16,44 GET ans picture "@!"
  read
  tempid = substr(fone,4)
  if val(tempid) > 9970
    tempid = '0000'
  endif
  new = recno()
  if ans = 'Y'
```

```
      tempid = str(val(tempid) + 1,4)
      go top
      find &tempid
      if eof () .or. bof ()
        go new
        replace supno with tempid
        @ 14,0 clear
        @ 16,24 SAY "Assigned Supplier #:"
        @ 16,46 SAY supno
        wait &wmsg
        return
      endif
    endif
  enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  OPN_ORDR.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module coordinates the activities necessary to make an            *
*            open purchase.  It invokes several subordinate modules to              *
*            gather various user inputs.  If only one item is being ordered         *
*            and the description of that item will fit in the space                 *
*            allowed on a DD-1348 ( < 23 characters), then a DD-1348 will           *
*            be generated.  If more than one item is being ordered, or if           *
*            the item's description is lengthy, a SF-36 will be prepared            *
*            in addition to a DD-1348.                                              *
*                                                                                   *
*  This module is called by:  MAIN.PRG                                              *
*                                                                                   *
*  This module calls:  SEL_SUPL.PRG                                                 *
*                      GET_RDD.PRG                                                  *
*                      GET_PRI.PRG                                                  *
*                      GET_CAT.PRG                                                  *
*                      BUY2_ITM.PRG                                                 *
*                      PRTSF36.PRG                                                  *
*                      PRT1348o.PRG                                                 *
*                      SUP_MEMO.PRG                                                 *
*                      FILE_REQ.PRG                                                 *
*                                                                                   *
*************************************************************************************

ans = ' '
clear
@ 3,27 SAY "OPEN PURCHASE REQUISITION"
@ 4,27 SAY "-------------------------"
@ 6,12 SAY "This program prepares the necessary documents to execute"
@ 7,12 SAY "an open purchase request. A DOD 1348 (6 part) will always"
@ 8,12 SAY "be produced, and if the item description is too long"
@ 9,12 SAY "(greater than 22 characters), or if there is more than"
@ 10,12 SAY "one item being ordered, a SF 36 will also be prepared."
@ 11,12 SAY "If the total order value exceeds $1,000., a memorandum"
@ 12,12 SAY "will be prepared listing at least 2 alternative sources,"
@ 13,12 SAY "unless this procurement request is being accompanied by"
@ 14,12 SAY "a sole-source justification. A maximum of 10 separate"
@ 15,12 SAY "line items may be ordered on a single requisition."
@ 17,30 SAY "Continue (Y/N)?"
@ 17,47 GET ans
read
if upper(ans) <> 'Y'
  return
endif
do sel_supl
do get_rdd
do get_pri
do get_cat
public counter
counter = 1
do buy2_itm
public docid,signal,fund,sf36
docid = 'A0E'
signal = 'A'
fund = '2S'
select E
use &tempord
go bottom
if recno() = 1 .and. len(trim(E->descrip)) < 23 .and. E->descrip2 = ' '
  sf36 = .F.
else
  sf36 = .T.
  do prtsf36
endif
```

```
do prtl348o
do file_req
if totval > 999.99
  do sup_memo
endif
select E
use
erase &tempord
return to master
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  PRNT_SMO.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module prepares a supplemental memo to NPS Supply                 *
*            memo to accompany an open purchase requisition if the total            *
*            value of all items on the requisition exceeds $1,000. The              *
*            purpose of the memo is to offer 2 alternative sources for              *
*            the requested material as required by Naval Supply regulations,        *
*            except in the case of orders accompanied by a sole source              *
*            justification.                                                         *
*                                                                                   *
*  This module is called by:  SUP_MEMO.PRG                                          *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


@ 1,7 SAY "From:"
@ 1,14 SAY c_dept
@ 1,18 SAY "Department"
@ 1,56 SAY today
@ 3,7 SAY "To: NPS Supply"
@ 5,7 SAY "Subj: Additional sources for requisition #"
@ 5,50 SAY reqno
@ 7,7 SAY "1.  Due to the high value of subject requisition, the f"
@ 7,62 SAY "ollowing"
@ 8,7 SAY "multiple supply sources are submitted:"
@ 12,17 SAY sname1
@ 12,45 SAY "Phone:"
@ 12,53 SAY areacode1
@ 12,57 SAY fone1
@ 13,17 SAY addr1
@ 14,17 SAY city1
@ 14,37 SAY state1
@ 14,44 SAY zip1
@ 17,17 SAY sname2
@ 17,45 SAY "Phone:"
@ 17,53 SAY areacode2
@ 17,57 SAY fone2
@ 18,17 SAY addr2
@ 19,17 SAY city2
@ 19,37 SAY state2
@ 19,44 SAY zip2
@ 23,17 SAY sname3
@ 23,45 SAY "Phone:"
@ 23,53 SAY areacode3
@ 23,57 SAY fone3
@ 24,17 SAY addr3
@ 25,17 SAY city3
@ 25,37 SAY state3
@ 25,44 SAY zip3
@ 29,7 SAY "2.  Department points of contact for this request are:"
@ 31,23 SAY poc1
@ 31,48 SAY ext1
@ 33,23 SAY poc2
@ 33,48 SAY ext2
@ 34,1  SAY chr(12)
set device to screen
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  PRTSF36.PRG                                                        *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module contains loop which will read one item at a time           *
*            from the TEMPORD.dbf and generate an SF-36.  The TEMPORD.dbf           *
*            is used as the information source because it contains the              *
*            fields of DESCRIP2 and DESCRIP3 which are not permanently              *
*            filed in the ITEM.dbf.  This allows a fuller description to            *
*            be used in the generation of the documents, yet provides for           *
*            a more economical filing structure for long term files. Once           *
*            the user states that an acceptable SF-36 has been generated,           *
*            the TEMPORD.dbf is erased. This module will produce an SF-36           *
*            containing from 1 to 12 line items.                                    *
*                                                                                   *
*  This module is called by:  OPN_ORDR.PRG                                          *
*                                                                                   *
*  This module calls:   WARN_PRT.PRG                                                *
*                                                                                   *
*************************************************************************************


do warn_prt
ans = ' '
do while ans <> 'N'
  clear
  @ 10,26 SAY "LOAD SF-36 INTO PRINTER"
  @ 12,37 SAY "&"
  @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
  set device to print
  @ 1,0 SAY ' '
  wait ''
  req1 = substr(reqno,1,4)
  req2 = substr(reqno,5,4)
  ref = "N62271/" + req1 + '/' + req2
  @ 1,51 SAY ref
  @ 1,72 SAY "1    1"
  who = trim(B->sname)
  where = trim(B->addr) + ', ' + trim(B->city) + ', ' + trim(B->state) ;
          + ' ' + (B->zip)
  who = who + ', ' + where
  @ 3,1 SAY who
  select E
  go top
  marker = 7
  do while .not. eof()
    @ marker,3 SAY E->itemno
    @ marker,8 SAY E->descrip
    @ marker,49 SAY E->quant picture "#####"
    @ marker,57 SAY E->unit
    @ marker,61 SAY E->uprice picture "#####.##"
    amount = E->quant * E->uprice
    @ marker,71 SAY amount picture "#####.##"
    if descrip2 <> ' '
      marker = marker + 1
      @ marker,8 SAY E->descrip2
    endif
    if descrip3 <> ' '
      marker = marker + 1
      @ marker,8 SAY E->descrip3
    endif
    marker = marker + 2
    skip
  enddo
  @ marker,70 SAY "__________"
  marker = marker + 1
  @ marker,35 SAY "TOTAL"
  @ marker,70 SAY "$"
```

```
  @ marker,71 SAY totval picture "##,###.##"
  @ 16,1 SAY chr(13)
  set device to screen
  clear
  @ 12,21 SAY "Do you want to reprint the SF-36?"
  @ 12,56 GET ans picture "@!"
  read
enddo
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  PRT1348a.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module contains a loop which will print memory variables          *
*            to the appropriate spaces on a DD-1348. It is designed to              *
*            handle slight variations in format based upon the value of             *
*            TYPEORDR.                                                              *
*                                                                                   *
*  This module is called by:  STK_ORDR.PRG                                          *
*                             FORM_ORD.PRG                                          *
*                             PUB_ORD.ORG                                           *
*                             RSS_ORD.PRG                                           *
*                                                                                   *
*  This module calls:  WARN_PRT.PRG                                                 *
*                                                                                   *
*************************************************************************************


do warn_prt
ans = ' '
do while ans <> 'N'
  clear
  @ 10,31 SAY "LOAD PRINTER"
  @ 12,37 SAY "&"
  @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
  set device to print
  @ 1,0 SAY ' '
  wait ''
  @ 1,6 SAY sendto
  @ 1,36 SAY "(62271) NPS,"
  dept = trim(c_dept) + ' Dept,'
  @ 1,49 SAY dept
  ccode = 'Code ' + trim(A->code)
  @ 1,59 SAY ccode
  @ 2,36 SAY "Rm"
  @ 2,39 SAY c_room
  @ 2,45 SAY "Bldg"
  @ 2,50 SAY c_bldg
  @ 2,56 SAY c_phone
  if typeordr = 'STOCK'
    @ 4,1 SAY nomen1
    @ 5,1 SAY nomen2
    @ 5,25 SAY docid
  endif
  @ 5,30 SAY route
  if typeordr = 'RSS$'
    @ 5,38 SAY money
  else
    @ 5,34 SAY ms_code
    snum1 = substr(stknum,1,4)
    snum2 = substr(stknum,5,2)
    snum3 = substr(stknum,7,3)
    snum4 = substr(stknum,10,4)
    snum = snum1 + '   ' + snum2 + ' ' + snum3 + ' ' + snum4
    @ 5,37 SAY snum
    @ 5,59 SAY unt
    @ 5,63 SAY qunt picture "######"
  endif
  @ 8,1 SAY "X 62271"
  req1 = substr(reqno,1,4)
  req2 = substr(reqno,5,4)
  req3 = req1 + '  ' + req2
  @ 8,11 SAY req3
  @ 8,23 SAY demand
  @ 8,25 SAY service
  @ 8,27 SAY supadr
  @ 8,34 SAY signal
```

```
  if typeordr = 'FORM' .or. typeordr = 'PUB'
    @ 8,38 SAY nomen1
  endif
  @ 8,64 SAY rmko
  @ 8,66 SAY "2D"
  if typeordr = 'FORM' .or. typeordr = 'PUB'
    @ 9,38 SAY nomen2
  endif
  @ 12,1 SAY fund
  @ 12,5 SAY dist
  @ 12,9 SAY "OP4"
  @ 12,14 SAY priority
  if rdd_yes
    @ 12,17 SAY rdd picture "###"
  endif
  @ 15,4 SAY "AA"
  do case
    case typeordr = 'RSS$'
      @ 15,49 SAY uprce picture "#####.##"
    case typeordr = 'PUB'
      @ 15,50 SAY "N/C"
    otherwise
      @ 15,33 SAY uprce picture "#####.##"
      totval = qunt * uprce
      @ 15,49 SAY totval picture "##,###.##"
  endcase
  @ 16,1 SAY chr(13)
  set device to screen
  clear
  @ 12,20 SAY "Do you want to reprint the DD-1348?"
  @ 12,56 GET ans picture "@!"
  read
enddo
return
```

```
*****************************************************************************
*                                                                           *
*  Module Name:  PRT1348o.PRG                                               *
*                                                                           *
*  Author: Tom Trotter                                                      *
*                                                                           *
*  Purpose:  This module prints a DD-1348 for open order purchases. It is   *
*            designed to generate a DD-1348 which may be accompanied by     *
*            an SF-36, or one which can stand alone, depending upon the     *
*            value of the logical variable SF36.                            *
*                                                                           *
*  This module is called by:  OPN_ORDR.PRG                                  *
*                                                                           *
*  This module calls:   WARN_PRT.PRG                                        *
*                                                                           *
*****************************************************************************


do warn_prt
ans = ' '
do while ans <> 'N'
  clear
  @ 10,31 SAY "LOAD PRINTER"
  @ 12,37 SAY "&"
  @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
  set device to print
  @ 1,0 SAY ' '
  wait ''
  @ 1,1 SAY B->sname
  @ 1,36 SAY "(62271) NPS,"
  dept = trim(c_dept) + ' Dept,'
  @ 1,49 SAY dept
  ccode = 'Code ' + trim(A->code)
  @ 1,59 SAY ccode
  @ 2,1 SAY where
  @ 2,36 SAY "Rm"
  @ 2,39 SAY c_room
  @ 2,45 SAY "Bldg"
  @ 2,50 SAY c_bldg
  @ 2,56 SAY c_phone
  @ 5,25 SAY docid
  @ 5,34 SAY ms_code
  if sf36
    @ 5,38 SAY "SEE ATTACHED SF-36"
  else
    @ 5,38 SAY E->descrip
    @ 5,59 SAY E->unit
    @ 5,63 SAY E->quant picture "#####"
  endif
  @ 8,1 SAY "X 62271"
  req1 = substr(reqno,1,4)
  req2 = substr(reqno,5,4)
  req3 = req1 + '  ' + req2
  @ 8,11 SAY req3
  @ 8,23 SAY demand
  @ 8,25 SAY service
  @ 8,27 SAY supadr
  @ 8,34 SAY signal
  @ 8,64 SAY rmko
  @ 8,66 SAY "2D"
  @ 12,1 SAY fund
  @ 12,5 SAY dist
  @ 12,9 SAY "OP4"
  @ 12,14 SAY priority
  if rdd_yes
    @ 12,17 SAY rdd picture "###"
  endif
  @ 15,4 SAY "AA"
  if .not. SF36
    @ 15,33 SAY uprce picture "#####.##"
```

```
  endif
  @ 15,49 SAY totval picture "##,###.##"
  @ 16,1 SAY chr(13)
  set device to screen
  clear
  @ 12,20 SAY "Do you want to reprint the DD-1348?"
  @ 12,56 GET ans picture "@!"
  read
enddo
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  PRT1348x.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module prints a DD-1348 for transportation requisitions.          *
*            It is formatted to include a field showing to whom the item            *
*            is to be sent.                                                         *
*                                                                                   *
*  This module is called by:  XPOR_ORD.PRG                                          *
*                                                                                   *
*  This module calls:   WARN_PRT.PRG                                                *
*                                                                                   *
*************************************************************************************


do warn_prt
ans = ' '
do while ans <> 'N'
  clear
  @ 10,31 SAY "LOAD PRINTER"
  @ 12,37 SAY "&"
  @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
  set device to print
  @ 1,0 SAY ' '
  wait ''
  select B
  use
  use &sup index &supno_s
  key = M->supno
  find &key
  sendto = B->sname
  @ 1,6 SAY sendto
  @ 1,36 SAY "(62271) NPS,"
  dept = trim(c_dept) + ' Dept,'
  @ 1,49 SAY dept
  ccode = 'Code ' + trim(A->code)
  @ 1,59 SAY ccode
  @ 2,36 SAY "Rm"
  @ 2,39 SAY c_room
  @ 2,45 SAY "Bldg"
  @ 2,50 SAY c_bldg
  @ 2,56 SAY c_phone
  @ 5,25 SAY docid
  @ 5,38 SAY "Ticket to:"
  @ 5,59 SAY unt
  @ 7,38 SAY shipto
  @ 8,1 SAY "X 62271"
  req1 = substr(reqno,1,4)
  req2 = substr(reqno,5,4)
  req3 = req1 + '  ' + req2
  @ 8,11 SAY req3
  @ 8,23 SAY demand
  @ 8,25 SAY service
  @ 8,27 SAY supadr
  @ 8,34 SAY signal
  @ 8,38 SAY addr1
  @ 8,64 SAY rmko
  @ 8,66 SAY "2D"
  @ 9,38 SAY addr2
  @ 10,38 SAY addr3
  @ 11,38 SAY addr4
  @ 12,1 SAY fund
  @ 12,9 SAY "OP4"
  @ 12,14 SAY priority
  @ 15,4 SAY "AA"
  @ 15,50 SAY uprce picture "####.##"
  @ 16,1 SAY chr(13)
  set device to screen
```

```
  clear
  @ 12,20 SAY "Do you want to reprint the DD-1348?"
  @ 12,56 GET ans picture "@!"
  read
enddo
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  PUB_ORD.PRG                                                        *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module coordinates the process of ordering forms                  *
*            from NAVPUBFORMCEN, Philadelphia, PA.                                  *
*                                                                                   *
*  This module is called by:  NEW_ORDR.PRG                                          *
*                                                                                   *
*  This module calls:  GET_RDD.PRG                                                  *
*                      GET_CAT.PRG                                                  *
*                      GET_PRI.PRG                                                  *
*                      BUY1_ITM.PRG                                                 *
*                      FILE_REQ.PRG                                                 *
*                      FILE_ITM.PRG                                                 *
*                                                                                   *
*************************************************************************************


ans = ' '
clear
@ 8,31 SAY "PUBLICATION  ORDER"
@ 9,31 SAY "------------------"
@ 11,13 SAY "This program prepares the documents required to order"
@ 12,13 SAY "publications from NAVPUBFORMCEN, Philadelphia. "
@ 16,30 SAY "Continue (Y/N)?"
@ 16,47 GET ans
read
if upper(ans) <> 'Y'
  return
endif
public sendto,supno,route
sendto = '(00288) NAVPUBFORMCEN PHILA'
supno = '2222'
route = 'NFZ'
do get_rdd
do get_pri
do get_cat
do buy1_itm
public docid,signal,fund
docid = 'A0D'
signal = 'D'
if uprce = 0
  fund = 'Y6'
else
  fund = '2S'
endif
do prt1348a
do file_req
do file_itm
return to master
```

```
*************************************************************************
*                                                                       *
*  Module Name:   QUIT.PRG                                              *
*                                                                       *
*  Author: Norm Lyons 10/85                                             *
*  Modified by: Tom Trotter 12/85 (converted to dBASE III)              *
*                                                                       *
*   Purpose    : This program terminates processing and returns         *
*                control to the operating system. At the end of         *
*                each appropriate menu, an option to to quit is         *
*                displayed. If the user enters "Q" to quit, the         *
*                program ends and control is returned to the            *
*                operating system.                                      *
*                                                                       *
*  This module is called by:   MAIN.PRG                                 *
*                                                                       *
*  This module calls:  N / A                                            *
*                                                                       *
*************************************************************************


@ 5,28 SAY "End of Dialog"
@ 7,10 SAY "If you are using floppy disks, replace them in their"
@ 9,10 SAY "protective jackets.  Do not touch the surface of"
@ 11,10 SAY "the disk (the little oval opening at the bottom of the"
@ 13,10 SAY "disk)."
set color to &mscolor
@ 22,9 SAY "Press any key to return control to the operating system"
set color to &ccolor
wait ''
quit
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  REQ_HDR.PRG                                                        *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module is used by the various modules which display               *
*            requisitions to put a common header on the screen.  It                 *
*            has been put into a separate module in order to avoid                  *
*            code duplication.                                                      *
*                                                                                   *
*  This module is called by:  DIS1_REQ.PRG                                          *
*                             DIS2_REQ.PRG                                          *
*                             DIS3_REQ.PRG                                          *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


clear
@ 1,5 SAY "Account Name:"
@ 1,19 SAY A->aname
@ 1,51 SAY "Requisition #:"
@ 1,66 SAY C->reqno
@ 2,5 SAY "Account #:"
@ 2,16 SAY C->accno
@ 2,51 SAY "Priority:"
@ 2,61 SAY C->pri_code
@ 3,21 SAY "To:"
@ 3,25 SAY B->sname
@ 3,51 SAY "Date:"
@ 3,57 SAY C->rdate
@ 4,25 SAY B->addr
where = trim(B->city) + ', '+ B->state + '  ' + B->zip
@ 5,25 SAY where
@ 7,2 SAY " #            Item                              Unit Cost"
@ 7,58 SAY "Quant  Rcvd  P.O. #"
@ 8,1 SAY "-------------------------------------------------------"
@ 8,56 SAY "------------------------"
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  RSS_ORD.PRG                                                        *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module prepares a DD-1348 for "Money Value Only" as a             *
*            method of payment in response to regular billings from the             *
*            NPS Ready Supply Store (RSS).                                          *
*                                                                                   *
*  This module is called by:  NEW_ORDR.PRG                                          *
*                                                                                   *
*  This module calls:  GET_CAT.PRG                                                  *
*                      FILE_REQ.PRG                                                 *
*                      PRT1348a.PRG                                                 *
*                                                                                   *
*************************************************************************************


ans = ' '
clear
@ 8,31 SAY "$$ REIMBURSEMENT TO RSS"
@ 9,31 SAY "-----------------------"
@ 11,13 SAY 'This program prepares a DD-1348 for "money value only"'
@ 12,13 SAY "as reimbursement to the NPS RSS."
@ 16,30 SAY "Continue (Y/N)?"
@ 16,47 GET ans
read
if upper(ans) <> 'Y'
  return
endif
public dist,uprce
dist = '  '
uprce = 0.00
ans = ' '
clear
do while ans <> 'Y'
  @ 6,32 SAY "RSS $$ REIMBURSEMENT"
  @ 7,32 SAY "--------------------"
  @ 10,33 SAY "$$ Amount: $"
  @ 10,46 GET uprce picture "####.##"
  @ 13,29 SAY "COG Symbol on billing:"
  @ 13,53 GET dist picture "@!"
  read
  @ 16,32 SAY "Correct (Y/N)?"
  @ 16,48 GET ans picture "@!"
  read
enddo
public sendto,supno,route,money,priority,rdd_yes,pri_code
rdd_yes = .F.
sendto = '203J READY SUPPLY STORES'
supno = '0000'
route = 'Z9S'
priority = '15'
pri_code = 'C'
do get_cat
money = 'MONEY VALUE ONLY'
public signal,fund
signal = 'D'
fund = '2S'
do prt1348a
select D
use
use &item index &reqno_i,&pono_i
append blank
replace descrip with M->money
replace quant with 1
replace rcvd with .T.
use
do file_req
```

```
return to master
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  SEL_ACNT.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module allows the user to access the ACCNT.dbf,                   *
*            scrolling forward and backward until a specific account                *
*            is selected for use.  If the desired account is not                    *
*            already on file, the user may opt to create it by invoking             *
*            NEW_ACNT.PRG from within this module.                                  *
*                                                                                   *
*  This module is called by:  DIS2_REQ.PRG                                          *
*                             DIS3_REQ.PRG                                          *
*                             NEW_ORDR.PRG                                          *
*                             SHW_NRI.PRG                                           *
*                                                                                   *
*  This module calls:   NEW_ACNT.PRG                                                *
*                                                                                   *
*************************************************************************************


do while .T.
  select A
  choice = 4
  clear
  set scoreboard on
  @ 2,28 SAY "SELECT AN ACCOUNT"
  @ 3,22 SAY "-----------------------------"
  @ 4,22 SAY "[   1.  By Account Name     ]"
  @ 5,22 SAY "[   2.  By Account Number   ]"
  @ 6,22 SAY "[   3.  Enter New Account   ]"
  @ 7,22 SAY "[   4.  Return to Main Menu ]"
  @ 8,22 SAY "-----------------------------"
  @ 10,29 SAY "Your choice:"
  @ 10,43 GET choice picture "#" range 1,4
  read
  set scoreboard off
  aname = '              '
  public accno
  accno = '     '
  do case
    case choice = 1
      use
      @ 14,27 SAY "Account Name:"
      @ 14,42 GET aname
      @ 16,27 SAY "(Blank aborts process)"
      read
      if aname = ' '
        return to master
      endif
      id = trim(upper(aname))
      use &accnt index &aname_a,&accno_a
    case choice = 2
      use
      @ 14,27 SAY "Account Number:"
      @ 14,44 GET accno
      @ 16,27 SAY "(Blank aborts process)"
      read
      if accno = ' '
        return to master
      endif
      id = trim(upper(accno))
      use &accnt index &accno_a,&aname_a
    case choice = 3
      do new_acnt
    case choice = 4
      use
      return to master
  endcase
```

```
  if choice <> 3
    find &id
    if (eof() .or. bof())
      use
      clear
      @ 5,27 SAY "ACCOUNT NOT FOUND"
      @ 7,14 SAY "If you believe this account is in the file, try"
      @ 8,14 SAY "a shorter version of either the account name or"
      @ 9,14 SAY "number (e.g. if you are unsure if the account"
      @ 10,14 SAY "number is R1234 or R1235, look for R123 instead)."
      set color to &mscolor
      wait &wmsg
      set color to &ccolor
    endif
  endif
  if .not. eof()
    pick = 4
    ok = .F.
    do while .not. ok
      clear
      set scoreboard on
      @ 3,22 SAY "Account Name:"
      @ 3,37 SAY aname
      @ 5,22 SAY "Account Number:"
      @ 5,39 SAY accno
      @ 7,22 SAY "Code:"
      @ 7,29 SAY code
      @ 9,22 SAY "Research Account (T/F):"
      @ 9,47 SAY research
      @ 11,22 SAY "Requisition Serial # Range -  From:"
      @ 11,59 SAY loserno
      @ 12,52 SAY "To:"
      @ 12,59 SAY hiserno
      @ 14,27 SAY "Select an action:"
      @ 14,46 GET pick picture "#" range 1,5
      @ 15,22 SAY "-----------------------------------"
      @ 16,22 SAY "[  1. Use this account            ]"
      @ 17,22 SAY "[  2. Scroll to previous account  ]"
      @ 18,22 SAY "[  3. Scroll to next account      ]"
      @ 19,22 SAY "[  4. Return to last menu         ]"
      @ 20,22 SAY "[  5. Return to main menu         ]"
      @ 21,22 SAY "-----------------------------------"
      read
      set scoreboard off
      do case
        case pick = 1
          accno = A->accno
          return
        case pick = 2
          if .not. bof()
            skip -1
          endif
        case pick = 3
          if .not. eof()
            skip
          endif
        case pick = 4
          ok = .T.
        case pick = 5
          return to master
      endcase
    enddo
  endif
enddo
```

```
*****************************************************************************
*                                                                           *
*  Module Name:  SEL_SUPL.PRG                                               *
*                                                                           *
*  Author: Tom Trotter                                                      *
*                                                                           *
*  Purpose:  This module allows the user to access the SUPT.dbf,            *
*            scrolling forward and backward until a specific supplier       *
*            is selected for use.  If the desired supplier is not           *
*            already on file, the user may opt to enter  it by invoking     *
*            NEW_SUPL.PRG from within this module.                          *
*                                                                           *
*  This module is called by:  NEW_ORDR.PRG                                  *
*                             SUP_MEMO.PRG                                  *
*                                                                           *
*  This module calls:   NEW_SUPL.PRG                                        *
*                                                                           *
*****************************************************************************


do while .T.
  select B
  choice = 4
  clear
  set scoreboard on
  @ 2,28 SAY "SELECT A SUPPLIER"
  @ 3,22 SAY "------------------------------"
  @ 4,22 SAY "[   1.  By Supplier Name     ]"
  @ 5,22 SAY "[   2.  By Supplier Number   ]"
  @ 6,22 SAY "[   3.  Enter New Supplier   ]"
  @ 7,22 SAY "[   4.  Return to Main Menu  ]"
  @ 8,22 SAY "------------------------------"
  @ 11,29 SAY "Your choice:"
  @ 11,43 GET choice picture "#" range 1,4
  read
  set scoreboard off
  public supno
  sname = '                         '
  supno = '    '
  do case
    case choice = 1
      use
      @ 14,27 SAY "Supplier Name:"
      @ 14,42 GET sname
      @ 16,27 SAY "(Blank aborts process)"
      read
      if sname = ' '
        return to master
      endif
      id = trim(upper(sname))
      use &sup index &sname_s
    case choice = 2
      use
      @ 14,27 SAY "Supplier Number:"
      @ 14,44 GET supno
      @ 16,27 SAY "(Blank aborts process)"
      read
      if supno = ' '
        return to master
      endif
      id = trim(upper(supno))
      use &sup index &supno_s
    case choice = 3
      do new_supl
    case choice = 4
      return to master
  endcase
  if choice <> 3
    find &id
    if (eof() .or. bof())
```

```
      use
      clear
      @ 5,27 SAY "SUPPLIER NOT FOUND"
      @ 7,14 SAY "If you believe this supplier is in the file, try"
      @ 8,14 SAY "a shorter version of either the supplier name or"
      @ 9,14 SAY "number (e.g. if you are unsure if the supplier"
      @ 10,14 SAY "name is Grey Electric or Gray Electic, try"
      @ 11,14 SAY "looking for 'Gr' instead)."
      set color to &mscolor
      wait &wmsg
      set color to &ccolor
    endif
  endif
  if .not. eof()
    pick = 4
    ok = .F.
    do while .not. ok
      clear
      set scoreboard on
      @ 2,29 SAY "SELECTED SUPPLIER"
      @ 5,25 SAY sname
      @ 6,25 SAY addr
      @ 7,25 SAY city
      @ 7,41 SAY state
      @ 7,48 SAY zip
      @ 9,25 SAY fone
      @ 9,48 SAY "Supplier #:"
      @ 9,61 SAY supno
      @ 14,27 SAY "Select an action:"
      @ 14,46 GET pick picture "#" range 1,5
      @ 15,22 SAY "-----------------------------------"
      @ 16,22 SAY "[  1. Use this supplier           ]"
      @ 17,22 SAY "[  2. Scroll to previous supplier ]"
      @ 18,22 SAY "[  3. Scroll to next supplier     ]"
      @ 19,22 SAY "[  4. Return to last menu         ]"
      @ 20,22 SAY "[  5. Return to main menu         ]"
      @ 21,22 SAY "-----------------------------------"
      read
      set scoreboard off
      do case
        case pick = 1
          supno = B->supno
          return
        case pick = 2
          if .not. bof()
            skip -1
          endif
        case pick = 3
          if .not. eof()
            skip
          endif
        case pick = 4
          ok = .T.
        case pick = 5
          return to master
      endcase
    enddo
  endif
enddo
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  SHW_NRI.PRG                                                        *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module displays items which are on file in the ITEMS.dbf          *
*            shown as not yet received (RCVD field = .F.).  The user may            *
*            direct output to the screen or printer.  He has the option of          *
*            listing all items marked as not received, or he may limit the          *
*            listing to items from a specific account.  This module may be          *
*            easily expanded to accomodate screens based upon date of               *
*            order.                                                                 *
*                                                                                   *
*  This module is called by:   MAIN.PRG                                             *
*                                                                                   *
*  This module calls:  WARN_PRT.PRG                                                 *
*                      SEL_ACNT.PRG                                                 *
*                                                                                   *
*************************************************************************************


ans = ' '
clear
@ 7,28 SAY "LIST ITEMS NOT RECEIVED"
@ 8,28 SAY "-----------------------"
@ 10,13 SAY "This program generates a listing of items ordered but"
@ 11,13 SAY "not yet received.  The list may be sent to the screen"
@ 12,13 SAY "or printer at the user's option.  The search for items"
@ 13,13 SAY "not received may also be limited within parameters"
@ 14,13 SAY "provided by the user."
@ 17,29 SAY "Continue (Y/N)?"
@ 17,46 GET ans
read
if upper(ans) <> 'Y'
  return
endif
pick = 3
clear
set scoreboard on
@ 5,25 SAY "Select Search Type:"
@ 5,46 GET pick picture "#" range 1,3
@ 6,12 SAY "-------------------------------------------------"
@ 7,12 SAY "[  1.  No limits (show all not received items)   ]"
@ 8,12 SAY "[  2.  Limit list to specific account number     ]"
@ 9,12 SAY "[  3.  Return to main menu                       ]"
@ 10,12 SAY "-------------------------------------------------"
read
if pick = 3
  return
endif
outpt = 1
@ 13,29 SAY "Select Display:"
@ 13,46 GET outpt picture "#" range 1,2
@ 14,28 SAY "------------------"
@ 15,28 SAY "[  1.  Screen    ]"
@ 16,28 SAY "[  2.  Printer   ]"
@ 17,28 SAY "------------------"
read
set scoreboard off
counter = 0
marker = 0
value = 0.00
totval = 0.00
totcnt = 0
do case
  case pick = 1
    if outpt = 2
      prtout = .T.
      do warn_prt
```

```
      clear
      @ 10,31 SAY "LOAD PRINTER"
      @ 12,37 SAY "&"
      @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
      set device to print
      @ 1,0 SAY ' '
      wait ''
    else
      prtout = .F.
    endif
    clear
    @ 2,35 SAY trim(c_dept) + ' Dept'
    @ 3,21 SAY "ITEMS NOT RECEIVED AS OF"
    @ 3,47 SAY today
    @ 4,1 SAY " #                Item                                  Req #  "
    @ 4,57 SAY "   P.O. #   Quantity"
    @ 5,1 SAY "-------------------------------------------------------------"
    @ 5,56 SAY "-----------------------"
    select D
    use &item index &reqno_i
    go top
    do while .not. eof()
      if .not. rcvd
        counter = counter + 1
        marker = marker + 1
        value = D->quant * D->uprice
        totval = totval + value
        totcnt = totcnt + D->quant
        @ marker+5,1 SAY counter picture "###"
        @ marker+5,6 SAY D->descrip
        @ marker+5,45 SAY D->reqno
        @ marker+5,58 SAY D->pono
        @ marker+5,69 SAY D->quant picture "#####"
        if marker > 14 .and. .not. prtout
          marker = 1
          wait &wmsg
          @ 6,0 clear
        endif
      endif
      skip
    enddo
    if counter = 0
      @ 10,21 SAY "ALL ITEMS ARE MARKED AS RECEIVED"
    else
      @ marker+8,15 SAY "Total items:"
      @ marker+8,28 SAY totcnt picture "#####"
      @ marker+8,45 SAY "Total value: $"
      @ marker+8,59 SAY totval picture "#,###,###.##"
    endif
    if prtout
      @ marker+8,70 SAY chr(12)
      set device to screen
    endif
  case pick = 2
    do sel_acnt
    key = A->accno
    if outpt = 2
      prtout = .T.
      do warn_prt
      clear
      @ 10,31 SAY "LOAD PRINTER"
      @ 12,37 SAY "&"
      @ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
      set device to print
      @ 1,0 SAY ' '
      wait ''
    else
      prtout = .F.
    endif
    clear
```

```
    @ 1,28 SAY "For Account #:"
    @ 1,43 SAY key
    @ 2,21 SAY "ITEMS NOT RECEIVED AS OF"
    @ 2,47 SAY today
    @ 4,1 SAY " #                Item                                    Req #  "
    @ 4,57 SAY "   P.O. #   Quantity"
    @ 5,1 SAY "-------------------------------------------------------------"
    @ 5,56 SAY "-----------------------"
    select C
    use &req index &accno_r
    find &key
    if eof()
      @ 8,10 SAY "No requisitions found for account name:"
      @ 8,50 SAY A->name
    else
      do while C->accno = key .and. .not. eof ()
        key2 = C->reqno
        select D
        use &item index &reqno_i
        find &key2
        do while D->reqno = key2 .and. .not. eof()
          if .not. rcvd
            counter = counter + 1
            marker = marker + 1
            value = D->quant * D->uprice
            totval = totval + value
            totcnt = totcnt + D->quant
            @ marker+5,1 SAY counter picture "###"
            @ marker+5,6 SAY D->descrip
            @ marker+5,45 SAY D->reqno
            @ marker+5,58 SAY D->pono
            @ marker+5,69 SAY D->quant picture "#####"
            if marker > 14 .and. .not. prtout
              marker = 1
              wait &msg
              @ 6,0 clear
            endif
          endif
          skip
        enddo
        select C
        skip
      enddo
      if counter = 0
        @ 10,21 SAY "ALL ITEMS ARE MARKED AS RECEIVED"
      else
        @ marker+8,15 SAY "Total items:"
        @ marker+8,28 SAY totcnt picture "######"
        @ marker+8,45 SAY "Total value: $"
        @ marker+8,59 SAY totval picture "#,###,###.##"
      endif
    endif
    if prtout
      @ marker+8,70 SAY chr(12)
      set device to screen
    else
      wait &wmsg
    endif
endcase
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:  STK_ORDR.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module offers the user a menu option of ordering a                *
*            standard stock item from either NPS RSS, NSC Oakland, or               *
*            GSA.  It subsequently invokes various modules to gather                *
*            the data required for the order.                                       *
*                                                                                   *
*  This module is called by:  MAIN.PRG                                              *
*                                                                                   *
*  This module calls:   GET_RDD.PRG                                                 *
*                       GET_PRI.PRG                                                 *
*                       GET_CAT.PRG                                                 *
*                       BUY1_ITM.PRG                                                *
*                       PRT1348a.PRG                                                *
*                       FILE_ITM.PRG                                                *
*                       FILE_REQ.PRG                                                *
*                                                                                   *
*************************************************************************************
```

```
choice = 4
clear
set scoreboard on
@ 4,25 SAY "STANDARD STOCK REQUISITION"
@ 6,14 SAY "This program prepares a requisition for either a"
@ 7,14 SAY "GSA or DOD standard stock item.  If you want to"
@ 8,14 SAY "order forms or publications, return to the previous"
@ 9,14 SAY "menu."
@ 12,21 SAY "---------------------------------"
@ 13,21 SAY "[  1.  NPS RSS Order             ]"
@ 14,21 SAY "[  2.  NSC Oakland Order         ]"
@ 15,21 SAY "[  3.  GSA Order                 ]"
@ 16,21 SAY "[  4.  Return to previous menu   ]"
@ 17,21 SAY "---------------------------------"
@ 18,29 SAY "Select:"
@ 18,38 GET choice picture "#" range 1,4
read
set scoreboard off
public supno,sendto,route
do case
  case choice = 1
    sendto = '203J Ready Supply Stores'
    route = 'Z9S'
    supno = '0000'
  case choice = 1
    sendto = '(00228) NSC Oakland, CA'
    route = 'NOZ'
    supno = '1111'
  case choice = 2
    sendto = 'GSA'
    route = 'GSA'
    supno = '2222'
  case choice = 3
    return
endcase
do get_rdd
do get_pri
do get_cat
do buy1_itm
public docid,signal,fund
docid = 'A0A'
signal = 'D'
fund = "2S"
do prt1348a
do file_req
do file_itm
```

```
return to master
```

```
*************************************************************************
*                                                                       *
*  Module Name:   SUP_MEMO                                              *
*                                                                       *
*  Author: Tom Trotter                                                  *
*                                                                       *
*  Purpose:  This module is conditionally invoked if the total value of *
*            an order exceeds $999.99.  It uses SEL_SUPL.PRG to specify *
*            suppliers to include in a supplemental memo prepared to    *
*            accompany the requisition.  Three suppliers and 2 dept     *
*            points of contact (POC's) must be specified.  After the    *
*            required data is collected, it invokes PRNT_SMO.PRG to     *
*            print the actual memo.                                     *
*                                                                       *
*  This module is called by:   OPN_ORDR.PRG                             *
*                                                                       *
*  This module calls:   PRNT_SMO.PRG                                    *
*                       SEL_SUPL.PRG                                    *
*                                                                       *
*************************************************************************


clear
@ 4,24 SAY "ADDITIONAL SUPPLY SOURCES MEMO"
@ 5,24 SAY "------------------------------"
@ 7,12 SAY "Since the total value of this order exceeds $1,000.00,"
@ 8,12 SAY "a memo, citing 2 additional supply sources, must"
@ 9,12 SAY "accompany the requisition.  Two points of contact"
@ 10,12 SAY "knowledgeable about the request requirements should also"
@ 11,12 SAY "shown on the memo."
@ 14,26 SAY "Press any key to continue..."
wait ''
clear
select B
@ 3,11 SAY "This requisition shown the following company as the"
@ 4,11 SAY "primary supplier."
@ 7,20 SAY sname
@ 7,47 SAY areacode
@ 7,57 SAY fone
@ 8,20 SAY addr
@ 9,20 SAY city
@ 9,45 SAY state
@ 9,52 SAY zip
public snamel,areacodel,fonel,addrl,cityl,statel,zipl
snamel = B->sname
areacodel = B->areacode
fonel = B->fone
addrl = B->addr
cityl = B->city
statel = B->state
zipl = B->zip
@ 13,11 SAY "You will now be requested to identify 2 additional"
@ 14,11 SAY "suppliers."
@ 16,21 SAY "Press any key to continue..."
wait ''
do sel_supl
public sname2,areacode2,fone2,addr2,city2,state2,zip2
sname2 = B->sname
areacode2 = B->areacode
fone2 = B->fone
addr2 = B->addr
city2 = B->city
state2 = B->state
zip2 = B->zip
clear
@ 12,19 SAY "Time to select one more supplier."
@ 16,21 SAY "Press any key to continue..."
wait ''
do sel_supl
public sname3,areacode3,fone3,addr3,city3,state3,zip3
```

```
sname3 = B->sname
areacode3 = B->areacode
fone3 = B->fone
addr3 = B->addr
city3 = B->city
state3 = B->state
zip3 = B->zip
clear
ans = ' '
public pocl,extl,poc2,ext2
pocl = '                    '
poc2 = '                    '
extl = '    '
ext2 = '    '
do while upper(ans) <> 'Y'
  @ 5,28 SAY "ENTER POINTS OF CONTACT"
  @ 6,28 SAY "-----------------------"
  @ 9,18 SAY "Name:"
  @ 9,25 GET pocl
  @ 9,48 SAY "Ext:"
  @ 9,54 GET extl
  @ 11,18 SAY "Name:"
  @ 11,25 GET poc2
  @ 11,48 SAY "Ext:"
  @ 11,54 GET ext2
  @ 14,30 SAY "Correct (Y/N)?"
  @ 14,46 GET ans
  read
enddo
do warn_prt
clear
@ 10,31 SAY "LOAD PRINTER"
@ 12,37 SAY "&"
@ 14,25 SAY "PRESS ANY KEY TO CONTINUE"
set device to print
@ 1,1 SAY ' '
wait ''
do prnt_smo
return
```

```
*************************************************************************************
*                                                                                   *
*  Module Name:   WARNING.PRG                                                       *
*                                                                                   *
*  Author: Tom Trotter                                                              *
*                                                                                   *
*  Purpose:  This module is used by BUY2_ITM.PRG to display a screen                *
*            warning that no item was entered and the order process                 *
*            is about to be terminated.                                             *
*                                                                                   *
*  This module is called by:   BUY2_ITM.PRG                                         *
*                                                                                   *
*  This module calls:  N / A                                                        *
*                                                                                   *
*************************************************************************************


ans = ' '
do while .T.
  clear
  @ 6,31 SAY "WARNING !!"
  @ 7,31 SAY "----------"
  @ 9,14 SAY "Since no item was entered  it is assumed that"
  @ 10,14 SAY "you desire to abort the entire order process!"
  @ 12,22 SAY "Do you want to abort (Y/N)?"
  @ 12,51 GET ans
  read
    if upper(ans) = 'Y'
      return to master
    else
      goahead = .F.
      return
    endif
enddo
```

```
*************************************************************************
*                                                                       *
*  Module Name:  WARN_PRT.PRG                                           *
*                                                                       *
*  Author: Tom Trotter                                                  *
*                                                                       *
*  Purpose:  This module displays a warning before any output is directed *
*            to the printer.  The user is advised to prepare the printer *
*            or face the consequences.                                  *
*                                                                       *
*  This module is called by:  DIS1_REQ.PRG                              *
*                             DIS2_REQ.PRG                              *
*                             DIS3_REQ.PRG                              *
*                             PRT1348a.PRG                              *
*                             PRT1348o.PRG                              *
*                             PRT1348x.PRG                              *
*                             PRTSF36.PRG                               *
*                             SHW_NRI.PRG                               *
*                             SUP_MEMO.PRG                              *
*                                                                       *
*************************************************************************

do while .T.
  ans = ' '
  clear
  @ 5,30 SAY "PREPARE PRINTER"
  @ 6,30 SAY "---------------"
  @ 8,13 SAY "Since output will now be sent to the"
  @ 9,13 SAY "printer, it should be connected and have the power"
  @ 10,13 SAY "turned on now."
  @ 12,13 SAY "WARNING - Failure to prepare the printer may cause"
  @ 13,23 SAY "the computer to hang and possibly result"
  @ 14,23 SAY "in loss of data."
  @ 17,29 SAY "Continue (Y/N)?"
  @ 17,46 GET ans
  read
  if upper(ans) = 'N'
    return to master
  endif
  if upper(ans) = 'Y'
    return
  else
    return
  endif
enddo
```

```
*****************************************************************************
*                                                                           *
*  Module Name:  WELCOME.PRG                                                *
*                                                                           *
*  Author: Tom Trotter                                                      *
*                                                                           *
*  Purpose:  This module displays the intital welcome banner and            *
*            describes the current disk configuration                       *
*                                                                           *
*  This module is called by:   MAIN.PRG                                     *
*                                                                           *
*  This module calls:   N / A                                               *
*                                                                           *
*****************************************************************************


clear
@ 3,16 SAY "WELCOME TO THE NPS SUPPLY REQUISITION DATABASE"
@ 6,8 SAY "This program is designed to originate requisition documents"
@ 7,8 SAY "(DD-1348s and SF-36s), as well as maintain a database of"
@ 8,8 SAY "requisition status for a particular department. The system"
@ 9,8 SAY "is designed for use by any personnel who are familiar with"
@ 10,8 SAY "Naval Supply terminology, however, a detailed understanding"
@ 11,8 SAY "of the decision matrix used in the generation of requisition"
@ 12,8 SAY "documents is unnecessary."
@ 16,8 SAY "WARNING -  If the user fails to adhere to any warnings"
@ 16,63 SAY "presented"
@ 17,19 SAY "by the program,  he does so at the risk of data loss."
@ 19,19 SAY "Disks should NEVER be removed from the drives until"
@ 20,19 SAY "the program has been exited."
?
?
wait '                          Press a key to continue...'
restore from config.var
clear
@ 4,30 SAY "LOAD DISK DRIVES"
@ 5,30 SAY "----------------"
@ 7,27 SAY "Database Disk Location"
if c_sdrv = c_adrv
  @ 10,20 SAY "Accounts/Supplier Disk:  " ' Drive"
  @ 10,46 SAY c_adrv
else
  @ 9,27 SAY "Suppliers:   " ' Drive"
  @ 9,41 SAY c_sdrv
  @ 11,27 SAY "Accounts:    " ' Drive"
  @ 11,41 SAY c_adrv
endif
@ 16,9 SAY "Ensure that the disk drives are properly loaded before"
@ 16,64 SAY "proceeding!"
?
?
wait '                          Press a key to continue...'
return
```

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