

**Y2K SCAN TOOL**

**User and Operations Guide**

## TABLE OF CONTENTS

1. INTRODUCTION.....	4
1.1 IDENTIFICATION .....	4
1.2 PURPOSE .....	4
1.3 SCOPE .....	4
2. OPERATIONAL DESCRIPTION .....	4
2.1 SYSTEM HIERARCHY .....	6
3. USER INTERFACE .....	9
3.1 INSTALLATION INSTRUCTIONS .....	13
3.1.1 Copy Source Code.....	13
3.1.2 List of Source Code Modifications .....	14
3.1.3 Install PREDICT.....	16
3.1.4 Physical File Changes .....	16
3.1.5 Y2K required JCL Examples .....	17
3.1.6 Partitioned Data Set JCL and Program Examples .....	23
3.1.6.1 + Program PLATPRG1 Lib NEMSINV (example) .....	24
3.1.6.2 + Program OBJ1 Lib NEMSINV (example) .....	27
3.1.6.3 DATA SET NAME: MSIRM.NEMS.NEMSMOV (example).....	29
3.1.6.4 JCL to Create PDS Members .....	30
3.1.7 TSO/ISPF batch scan facility examples of JCL.....	32
4. FUNCTIONS .....	34
4.1 SCREENS .....	34
4.1.1 Main Menu - Request Scan (Y-MENU option 1) .....	34
4.1.1.1 Request Scan Library Name .....	35
4.1.1.2 Request Scan Help Screen .....	36
4.1.1.3 Request Scan Results Screen.....	37
4.1.1.4 ACTION FIELD HELP SCREEN.....	38
4.1.2 Main Menu - Fields on ADABAS File (Y-MENU option 2).....	39
4.1.2.1 ADABAS File Input Screen.....	40
4.1.2.2 Fields on ADABAS File Results Screen .....	41
4.1.3 Main Menu - Extract Values within Fields (Y-MENU option 3).....	42
4.1.3.1 Table Name for Extract Values within Fields Screen .....	43
4.1.3.1.1 Table Name for Extract Values within Fields Help Screen ....	44
4.1.3.2 Table Name for Extract Values within Fields Results Screen .....	45
4.1.4 Main Menu - Reserved Words (Y-Menu option 4) .....	50
4.1.4.1 Enter Reserve Word Screen .....	51
4.1.4.2 Reserved Words Results Screen .....	52
4.1.5 Main Menu - Rule to Convert a Date (-Menu option 5) .....	56
4.1.5.1 Rule to Convert - Rule Code Screen.....	57
4.1.5.2 Rules to Convert Results Screen .....	58
4.1.6 Main Menu - Findings Report (Y-MENU option 6) .....	59

4.1.6.1 Findings Report Input Library/Program Screen.....	60
4.1.6.2 Scan Findings Report Screen .....	61
4.1.7 Main Menu - Process Errors (Y-MENU option E).....	62
4.1.7.1 Error Log Report Screen .....	63
4.1.8 Main Menu - Look Menu (Y-MENU option L) .....	64
4.1.8.1 Look Menu - List Library Name (LOOK option L) .....	65
4.1.8.1.1 List Library Names Results Screen.....	66
4.1.8.2 Look Menu - List Program Names (LOOK option P) .....	67
4.1.8.2.1 List Program Names Results Screen.....	68
4.1.8.3 Look Menu - Browse a Program (LOOK option B) .....	69
4.1.8.3.1 Browse a Program Results Screen.....	70
4.1.8.4 Look Menu - Browse a Program>Show Access (LOOK option A)	71
4.1.8.4.1 Browse a Program>Show Access Results Screen.....	72
4.1.8.5 Look Menu - Scan up to 20 Values (LOOK option S).....	73
4.1.8.5.1 Scan up to 20 Values - Input Values .....	74
4.1.8.5.2 Scan up to 20 Values Results Screen .....	75
4.1.8.6 Look Menu - Find Module in System (LOOK option F).....	76
4.1.8.6.1 Find Module in System - Input Module Name .....	77
4.1.8.6.2 Find Module in System Results Screen .....	78
4.1.8.7 Look Menu - What File Contains Field (LOOK option W) .....	79
4.1.8.7.1 What File - Input Element Screen.....	80
4.1.8.7.2 What File Contains Field Results Screen.....	81
4.1.8.8 Look Menu - Help (LOOK option H) .....	82
4.1.8.8.1 LOOK HELP Screen .....	83

## **1. INTRODUCTION**

### **1.1 IDENTIFICATION**

This document is the User and Operations Guide (UOG) for the National Aeronautics and Space Administration (NASA) Y2K Scan Tool. The UOG includes documentation of the Online and Batch processes. This document is identified as the Y2K User and Operations Guide, Y2K-UOG-1.

### **1.2 PURPOSE**

The UOG serves as an instruction and reference manual for technical users operations. Brief instructions for the technical user to facilitate use of this tool Online and Batch are also included. This is a Commercial-Off-The-Shelf (COTS) package. This tool is provided to assist with your site's evaluation of ADABAS/NATURAL software.

### **1.3 SCOPE**

The Y2K tool offers features for Conversion that have **NOT** been converted to operate in NASA's environment. The Conversion processes may be used at a later date, but will **NOT FUNCTION** correctly at this time. Should you choose to operate these functions travel at your own risk. The tool has been supplied to the agency as a scan tool and the Conversion portions are not supported and are not included in this documentation.

## **2. OPERATIONAL DESCRIPTION**

Y2K Scan tool is **NOT** a Sustaining Engineering Support for Agencywide Administrative Systems (SESAAS) maintained product but is being used in the SESAAS environment to assist in the Year 2000 analysis. SESAAS support personnel will answer questions regarding installation of the product; however, ongoing maintenance support is currently not envisioned.

The Online Processing function in Y2K consists of eight (8) major components. Each component performs separate processing functions.

Processing functions within the system include:

- Scanning
- Building tables for ADABAS Files
- Extract values
- Reserved Words
- Conversion Rules
- Findings Report
- Error Report

## Look functions.

The Scanning Component provides the technical user the ability to scan NATURAL libraries. The technician can request a scan, update a scan, delete a scan, and perform a scan.

The Building tables for ADABAS Files provides the technical user a pre-defined list of date field data elements that are known. The tables for the core PREDICT files and their date fields have been provided for NEMS. The other applications will provide data through documentation changes for the centers to use when they are defined. The technician may add data elements to these table entries through this process for files used in applications other than Agencywide, and for site fields that have been appended to core files.

The Extract Values table building provides the technical user a list of wild card names, or partial names used in naming date fields. Table entries have been provided for NEMS, NEMS Inventory, and NEMS PCM. These tables are the core of the scan tools logic. The results of the scan are greatly affected by the entries made. The SESAAS team will provide table entries for all of the Agencywide systems through documentation changes as they are determined. The SESAAS team will **NOT** support the tools operations if these tables are changed. This is a very powerful process and will have a major effect on the results of the scan provided by the tool. SESAAS will only support the core Agencywide applications table entries.

The Reserved Words table building provides entry of reserved words used by NATURAL syntax. The table has been pre-loaded and changes to this table are **NOT** supported by SESAAS.

The Conversion Rules table building provides entries that are **NOT** supported by the SESAAS team at this time.

The Findings Report provides a listing report of the scan results in the order that the scan was processed.

The Error Report provides an Online log of the errors that were encountered with the scan. This feature allows the deletion of the error log generated.

The Look Function provides the technician the following browse functions: List of Library Names, List of Programs, Browse through program code, Browse through program code with access commands highlighted, Scan program code for up to 20 input values, Find a module in the system, What files contain a field, and Help.

The batch processing available involves running adhoc reports against the flat file that the scan creates. Basic JCL will be provided to use the batch process. Also included with the documentation is JCL and programs used to create

partitioned data sets (PDS), that can be used with ISPF editor scans which are provided with the documentation.

## **2.1 SYSTEM HIERARCHY**

Figure 2.1 and 2.2 provide flow charts of the Y2K tool.

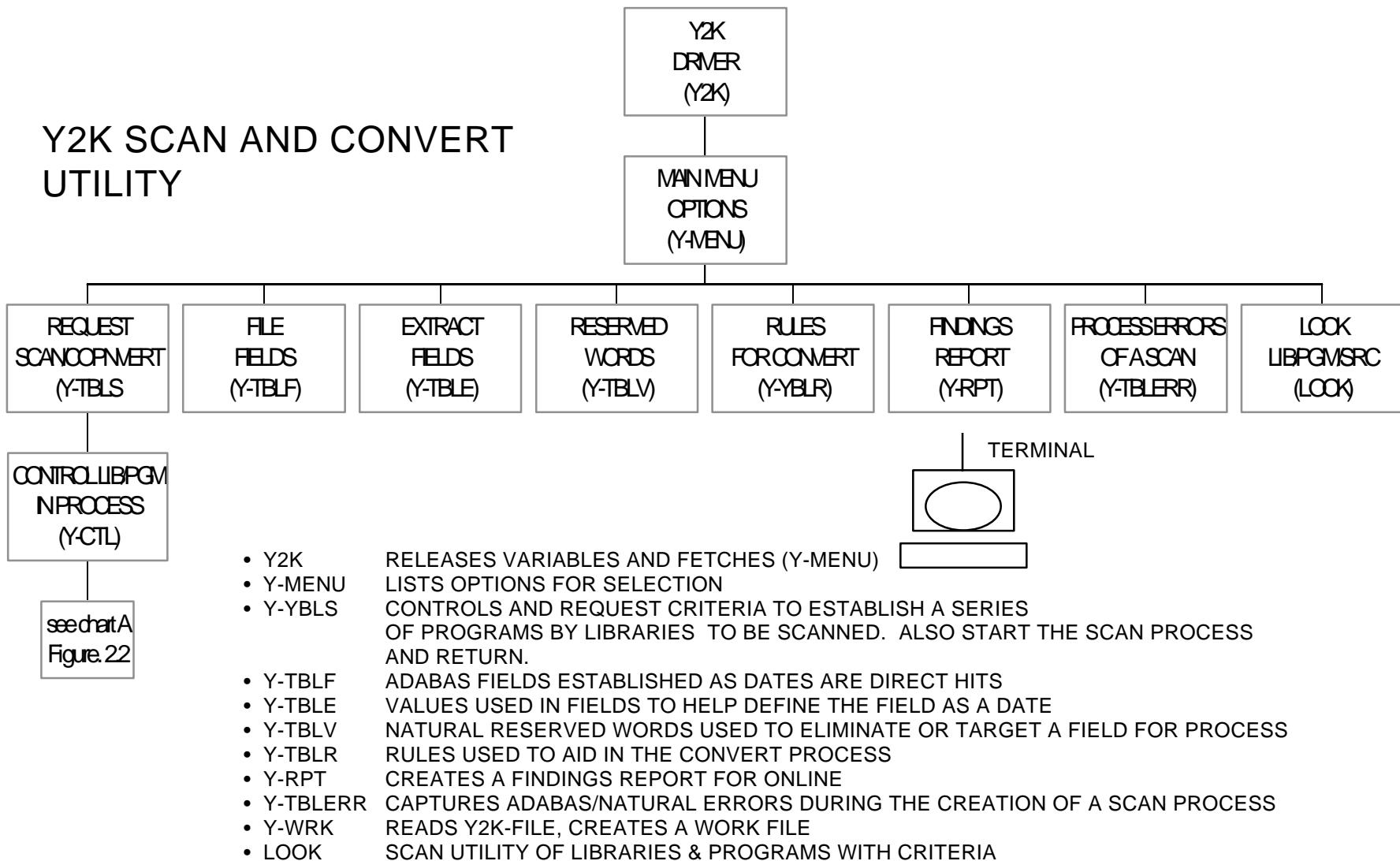


Figure 2.1

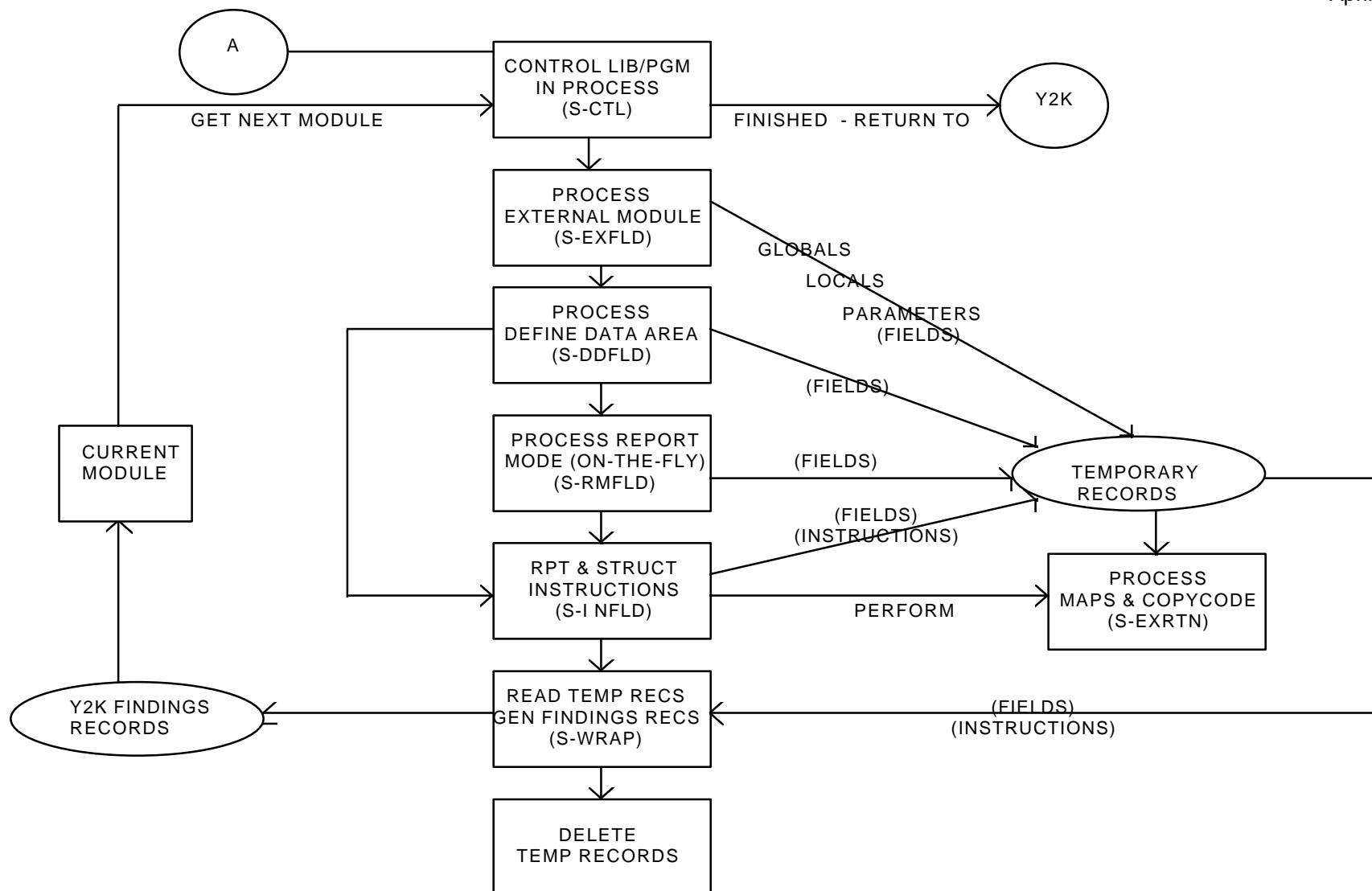


Figure 2.2

### **3. USER INTERFACE**

The Y2K Scan Tool is a COTS software package and will not require any Sustaining Engineering. Help for the Y2K Scan Tool is provided through the Consolidation Center (CC) located at Marshall Space Flight Center (MSFC). Questions regarding the function and/or the technical aspects as well as the installation of this release should be directed to:

The NACC Technical Services Center (use following Key Words: SESAAS and NPDMS or NEMS).

Telephone: (205) 544-6673

Email: [jim.crowell@msfc.nasa.gov](mailto:jim.crowell@msfc.nasa.gov)

FAX: (205) 544-1836

Y2K File layout with remarks

T	L	DB	NAME	F	LENG	S	D	REMARKS
	1	AA	LIBRARY-NAME	A	8	N		
	1	AB	NEW-LIBRARY-NAME	A	8	N		
	1	AC	STATUS-LIB-MDL	A	1	N		S = Scan / C = Convert
	1	AD	MODULE-NAME	A	8	N	D	Program Name
	1	AE	SER-NO	A	3	N		Multiple records for one program
	1	AF	MODULE-TYPE	A	1	N		F = Program / N = Subprogram / S = Subroutine
	1	AG	SAVE-DATE	T	12	N		EM = YYYYMMDDHHIIS
	1	AH	SAVE-USERID	A	8	N		User who last saved module
	1	AI	Y2K-KEY	A	20	N	S	Library-Name (A8) / Status-Lib-Mdl (A1) / Module-Name (A8) / Ser-No (A3)
P	1	AJ	FIELD-GROUP					
	2	AK	FIELD-NAME	A	32	N		
	2	AL	FIELD-FORMAT	A	6	N		
	2	AM	FIELD-LINE-NO	A	4	N		

	2	AN	FIELD-STATUS	A	1	N		
	2	AO	FIELD-XREF	A	100	N		
	2	AP	FIELD-FILE-NO	A	3	N		
	2	AQ	FIELD-MODULE	A	8	N		
	2	AR	FIELD-MISC	A	5	N		<p>first character = 'D' (Define) or 'I' (Instruction)          second character = Passed          'C' (Conditional) (A6) format only;          'B' (Between) found in extract table;          'D' (Date) found in field table;          'P' (Parsed) field used with original field          third character = Mode type          'C' (Copy Code); 'M' (Map); 'F' (Fetch);          'S' (Perform); 'N' (Callnat); 'G' (Global);          'L' (Local); 'P' (Parameter)          fifth and sixth character = blank</p>
	2	AS	FIELD-RULE	A	3	N		<p>Code representing the NATURAL command used with field.          REA = Read; FIN = Find; COM = Compare; MOV = Move; (:=) = Move; RES = Reset;          CAL = Calculate; IFC = If with Calculate;          CLL = Call; CLN = Callnat; WRI = Print/Write;          INP = Input; IF = If; SOR = Sort; GRP = Group Field;</p>
	1	AT	TABLE-TYPE	A	1	N		
	1	AU	TABLE-ARGUMENT	A	50	N		
	1	AV	TABLE-FUNCTION	A	50	N	D	

1	AW	TABLE-FORMAT	A	6	N		
1	AX	TABLE-XREF	A	50	N	D	
1	AY	TABLE-KEY	A	101	N	S	

### 3.1 INSTALLATION INSTRUCTIONS

#### 3.1.1 Copy Source Code

Define library Y2K and load the Y2K source into Y2K library from dataset AIMS.Y2K.PROD.REL100.REL0497.SRC. The source programs were unloaded using the NATURAL utility NATUNLD. The programs will be loaded to the application library Y2K, replacing any existing programs of the same name. The source module counts included in this release are listed below:

**NATURAL Source Modules By Type**

GLOBAL DATA AREA	1
LOCAL/PARAM DATA AREA	0
MAPS	3
HELP ROUTINES	0
SUBROUTINES	1
SUBPROGRAMS	0
PROGRAMS	35
COPYCODE	1
TEXT	2
PROCESS	0
MISCELLANEOUS OBJECTS	0
<b>Total:</b>	<b>43</b>

### **3.1.2 List of Source Code Modifications**

The following are the modules added.

#### **Added Modules**

FIND	Program
FND	Program
FND-CC	Copycode
FTBL	Program
INITIAL	Program
INT	Program
LOOK	Program
NUM	Program
REL	Program
RPT-TEST	Program
S-CTL	Program
S-DDFLD	Program
S-DIS	Program
S-ERR	Program
S-EXFLD	Program
S-EXRTN	Subroutine
S-GLOB	Global
S-INFLD	Program
S-RMFLD	Program
S-WRAP	Program
TBL	Program

TBLERR	Program
TTBL	Program
Y-ACTE	Map
Y-ACTH	Map
Y-KEYTXT	Text
Y-MENU	Program
Y-RPT	Program
Y-RPT-N	Program
Y-RPT1	Program
Y-RPT2	Program
Y-RPT3	Program
Y-SKEL	Program
Y-TBLE	Program
Y-TBLF	Program
Y-TBLR	Program
Y-TBLS	Program
Y-TBLSH	Map
Y-TBLV	Program
Y-WRK	Program
Y-WRK2	Program
Y-WRKTEXT	Text
Y2K	Program

Three other files are used. SYSDIC-FI and SYSDIC-EL are used for getting PREDICT information and their definition is supplied by SAG. A user view called FUSER2 is used to get source program information. FUSER2 is based on the FUSER definition which is supplied by SAG. The FUSER2 view uses two fields:

SOURCE-PROGRAM-IDENT (ADABAS field LJ) and SOURCE-CODE (ADABAS field LK, an MU occurring 60 times). If your center does not have an FUSER2 definition or wants to use FUSER user view instead, you will need to modify the NATURAL modules which reference FUSER2.

The Y2K-FILE should be update linked to the Y2K application and the other files (SYSDIC-EL, SYSDIC-FI and FUSER2) should be read-linked.

### **3.1.3 Install PREDICT**

Use SYSDICBE to load all PREDICT data from the dataset AIMS.Y2K.PROD.REL100.REL0497.PRD. The object types and inventory listed below represent a comprehensive count of the PREDICT object modules for this release.

#### **PREDICT Objects by Type**

Keyword	1
Standard Files	0
Physical Files	1
User views	0
Data Elements	25
Program Descriptions	0

### **3.1.4 Physical File Changes**

The following file changes must be made for this release. Generate ADAWAN cards and generate all Data Definition Modules (DDMs) with Line Comment = N, General Comment = N, and Short Comment = 0.

### 3.1.5 Y2K required JCL Examples

```
***** ***** TOP OF DATA *****  
000001 //IRY2WKW JOB (MSIRMNPDM004,4201),'Y2K WORK',CLASS=D,  
000002 // NOTIFY=XXXXX,MSGLEVEL=(1,1),MSGCLASS=I  
000003 /* *****  
000004 //** CREATES WORK FILE OF Y2K RECORDS - EXTRACTS ALL LIBRARIES  
000005 /* *****  
000006 //DVNPDMS EXEC N04Z  
000007 //CMPRINT DD SYSOUT=(I,P3103102)  
000008 //CMWKF01 DD DSN=MSIRM.NEMSDD.XXX.RPT.FILE,  
000009 // DISP=(,CATLG,DELETE),  
000010 // UNIT=SYSDA,  
000011 // SPACE=(CYL,(2,1),RLSE),  
000012 // DCB=(RECFM=FB,LRECL=438,BLKSIZE=26280)  
000013 //CMSYNIN DD *  
000014 Y2KLIB,XXXX  
000015 %*  
000016 XXXX  
000017 R Y-WRK  
000018 FIN  
000019 /*  
000020 //  
***** ***** BOTTOM OF DATA *****
```

```
***** ***** TOP OF DATA *****  
000001 //IRY2WRK2 JOB (MSIRMNPDM004,4201),'Y2K WORK2',CLASS=D,  
000002 // NOTIFY=XXXXX,MSGLEVEL=(1,1),MSGCLASS=A  
000003 /* *****  
000004 /* CREATES WORK FILE OF Y2K RECORDS FOR A SINGLE LIBRARY.  
000005 /* *****  
000006 //DVNPDMS EXEC N04Z  
000007 //CMPPRINT DD SYSOUT=(A,P3103102)  
000008 //CMWKF01 DD DSN=MSIRM.NEMSDD.XXX.RPT.FILE,  
000009 // DISP=OLD,  
000010 // UNIT=SYSDA,  
000011 // SPACE=(CYL,(2,1),RLSE),  
000012 // DCB=(RECFM=FB,LRECL=438,BLKSIZE=26280)  
000013 //CMSYNIN DD *  
000014 Y2KLIB,XXXX  
000015 %*  
000016 XXXXX  
000017 Y-WRK2  
000018 // ** ENTER THE LIBRARY NAME BELOW **  
000019 NIBASE  
000020 FIN  
000021 /*  
000022 //  
***** ***** BOTTOM OF DATA *****
```

```
***** ***** TOP OF DATA *****  
000001 //IRY2RPT JOB (MSIRMNPDM004,4201),'Y2K REPORT',CLASS=D,  
000002 // NOTIFY=XXXXX,MSGLEVEL=(1,1),MSGCLASS=I  
000003 /* *****  
000004 /* CREATES THE FINDINGS REPORT - BATCH VERSION OF ONLINE REPORT.  
000005 //*****  
000006 //DVNPDM EXEC N04Z  
000007 //CMPPRINT DD SYSOUT=(I,P3103102)  
000008 //CMSYNIN DD *  
000009 Y2KLIB,XXXXX  
000010 %*  
000011 XXXXX  
000012 Y-RPT  
000013 FIN  
000014 /*  
000015 //  
***** ***** BOTTOM OF DATA *****
```

```
***** ***** TOP OF DATA *****  
000001 //IRY2RPT1 JOB (MSIRMNPDM004,4201),'Y2K REPORT 1',CLASS=D,  
000002 // NOTIFY=XXXXX,MSGLEVEL=(1,1),MSGCLASS=I  
000003 /* *****  
000004 /* CREATES ORIGINAL Y2K REPORT OF 100 RECORDS ONLY  
000005 /* *****  
000006 //DVNPDM EXEC N04Z  
000007 //CMPPRINT DD SYSOUT=(I,P3103102)  
000008 //CMWKF01 DD DSN=MSIRM.NEMSDD.NKY.RPT.FILE,  
000009 // DISP=SHR  
000010 /* DISP=(,CATLG,DELETE),  
000011 /* UNIT=SYSDA,  
000012 /* SPACE=(CYL,(2,1),RLSE),  
000013 /* DCB=(RECFM=FB,LRECL=438,BLKSIZE=26280)  
000014 //CMSSYNIN DD *  
000015 Y2KLIB,XXXXX  
000016 %*  
000017 XXXXX  
000018 GLOBALS LS=132  
000019 R Y-RPT1  
000020 FIN  
000021 /*  
000023 //  
***** ***** BOTTOM OF DATA *****
```

```
***** ***** TOP OF DATA *****  
000001 //IRY2RPT2 JOB (MSIRMNPDM004,4201),'Y2K REPORT 2',CLASS=D,  
000002 // NOTIFY=XXXXX,MSGLEVEL=(1,1),MSGCLASS=A  
000003 /*JOBPARM LINES=2000  
000004 /* *****  
000005 /* CREATES Y2K REPORT 2 THAT LISTS IMPACTED SOURCE LINES PER MODULE  
000006 /* *****  
000007 //DVNPDM EXEC N04Z  
000008 //CMPRINT DD SYSOUT=(A,P3103102)  
000009 //CMWKF01 DD DSN=MSIRM.NEMSDD.XXX.RPT.FILE,  
000010 // DISP=SHR  
000011 /* DISP=(,CATLG,DELETE),  
000012 /* UNIT=SYSDA,  
000013 /* SPACE=(CYL,(2,1),RLSE),  
000014 /* DCB=(RECFM=FB,LRECL=438,BLKSIZE=26280)  
000015 //CMSYNIN DD *  
000016 Y2KLIB,XXXX  
000017 %*  
000018 XXXXX  
000019 GLOBALS LS=132  
000020 Y-RPT2  
000021 FIN  
000022 /*  
000023 //  
***** ***** BOTTOM OF DATA *****
```

```
***** ***** TOP OF DATA *****  
000001 //IRY2RPT3 JOB (MSIRMNPDM004,4201),'Y2K REPORT 3',CLASS=D,  
000002 // NOTIFY=XXXXX,MSGLEVEL=(1,1),MSGCLASS=A  
000003 /*JOBPARM LINES=2000  
000004 /* *****  
000005 /* CREATES Y2K REPORT 3 OF SOURCE LINE CALCULATIONS  
000006 /* *****  
000007 //DVNPDM EXEC N04Z  
000008 //CMPRINT DD SYSOUT=(A,P3103102)  
000009 //CMWKF01 DD DSN=MSIRM.NEMSDD.CAL.RPT.FILE,  
000010 // DISP=SHR  
000011 /* DISP=(,CATLG,DELETE),  
000012 /* UNIT=SYSDA,  
000013 /* SPACE=(CYL,(2,1),RLSE),  
000014 /* DCB=(RECFM=FB,LRECL=438,BLKSIZE=26280)  
000015 //CMSYNIN DD *  
000016 Y2KLIB,XXXXX  
000017 %*  
000018 XXXXX  
000019 GLOBALS LS=132  
000020 Y-RPT3  
000021 FIN  
000022 /*  
000023 //  
***** ***** BOTTOM OF DATA *****
```

### **3.1.6 Partitioned Data Set JCL and Program Examples**

Instructions for Creating PDS of NATURAL Programs and Running the ISPF Scan in Batch.

1. Type in the source code for OBJ1 and PLATPRG1 in the library you will be loading into the partitioned dataset. Stow each program.
2. Create the JCL that executes PLATPRG1 and OBJ1 as defined in example. Create datasets needed for the job. Refer to the DCB info for the PDS used in the last step of the job.
3. After creating all of the datasets, execute the job to load your NATURAL modules into the PDS.
4. Create JCL for the batch ISPF scan job as defined in the example. (The scan can be run Online under ISPF utilities; however, the number of strings for which you can search is limited. The batch job allows many more strings than the Online feature.)
5. Submit the ISPF scan job and review output.

### 3.1.6.1 + Program PLATPRG1 Lib NEMSINV (example)

```
0010 *
0020 *
0030 *
0040 *      turn on lower case      %I
0050 *
0060 *
0070 *
0080 * THIS READS A SEQ. FILE CONTAINING LISTINGS OF NATURAL SOURCE
0090 * CODE AND PREPARES PARAMETERS FOR THE IGM UTILITY "IEBUPDTE"
0100 * IN ORDER TO WRITE EACH PROGRAM INTO A PDS AS A
0110 * SEPARATE MEMBER.
0120 * THIS LEAVES THE 4 DIGIT NATURAL SOURCE SEQUENCE NUMBER
0130 * AT THE BEGINNING OF EACH RECORD.
0140 *
0150 * THIS PUTS THE 8 DIGIT IEBUPDTE SEQUENCE NUMBER AT THE
0160 * END OF EACH RECORD.
0170 *
0180 * THIS ELIMINATES COMMENTS FROM THE SOURCE CODE.
0190 *
0200 * THIS IS WRITTEN TO WORK WITH NATURAL 2.2.6.
0210 * IT MAY NOT WORK UNDER NATURAL 2.2.8 AND
0220 * MAY HAVE TO BE MODIFIED AFTER THE CONVERSION TO 2.2.8.
0230 *
0240 *
0250 *
0260 *
0270 DEFINE DATA
0280 LOCAL
```

```
0290 01 #IN      (A133)
0300 01 REDEFINE #IN
0310 02 FILLER   1X
0320 02 #SEQ      (A4)
0330 02 FILLER   1X
0340 02 #SOURCE   (A72)
0350 02 REDEFINE #SOURCE
0360 03 #COMMENT  (A1)
0370 03 FILLER   20X
0380 03 #OBJ-NAME (A8)
0390 03 FILLER   5X
0400 03 #LIT-LIB  (A8)
0410 03 #LIBRARY  (A8)
0420 01 #OUT-REC  (A80)
0430 01 #HOLD-NAME (A8)
0440 01 #CNT-OBJ  (P5)
0450 01 #CNT-SRC  (P7)
0460 END-DEFINE
0470 READ WORK FILE 1 #IN
0480 AT END OF DATA
0490 ASSIGN #OUT-REC = './ ENDUP'
0500 WRITE WORK FILE 2 #OUT-REC
0510 WRITE 2X #CNT-OBJ 'OBJECTS WRITTEN' / #CNT-SRC 'LINES OF CODE'
0520 TERMINATE
0530 END-ENDDATA
0540 IF #LIT-LIB = 'Library'
0550 EXAMINE FULL #OBJ-NAME FOR '-' REPLACE '$'
0560 EXAMINE FULL #OBJ-NAME FOR '_' REPLACE '$'
0570 REJECT IF #OBJ-NAME = #HOLD-NAME
0580 ADD 1 TO #CNT-OBJ
```

```
0590 ASSIGN #HOLD-NAME = #OBJ-NAME
0600 COMPRESS './ ADD NAME=' #OBJ-NAME INTO #OUT-REC LEAVING NO
0610 WRITE WORK FILE 2 #OUT-REC
0620 ASSIGN #OUT-REC = './ NUMBER NEW1=10,INCR=10'
0630 WRITE WORK FILE 2 #OUT-REC
0640 COMPRESS '*' THIS OBJECT IS '#OBJ-NAME INTO #OUT-REC
0650 WRITE WORK FILE 2 #OUT-REC
0660 ESCAPE TOP
0670 END-IF
0680 IF #SEQ IS (N4)
0690 REJECT IF #COMMENT = '*'
0700 ADD 1 TO #CNT-SRC
0710 COMPRESS #SEQ #SOURCE INTO #OUT-REC
0720 WRITE WORK FILE 2 #OUT-REC
0730 END-IF
0740 END-WORK
0750 END
```

### 3.1.6.2 + Program OBJ1 Lib NEMSINV (example)

```
0010 *
0020 *
0030 *
0040 * JCL: LISTOJBS + OTHER MISC JOBS
0050 * WORKS WITH NAT. 2.2.3, 2.2.5, 2.2.6
0060 *
0070 *      T U R N   O N   %L
0080 *
0090 *
0100 *
0110 * THIS CREATES LIST COMMANDS FOR OBJECTS SELECTED AND
0120 * PUTS THEM IN A CMPPRINT FILE.
0130 *
0140 *
0150 *
0160 *
0170 *
0180 *
0190 *
0200 *
0210 DEFINE DATA
0220 LOCAL
0230 01 #IN      (A133)
0240 01 REDEFINE #IN
0250 02 #FILLER1  (A1)
0260 02 #BASE     (A4)
0270 02 REDEFINE #BASE
0280 03 #NUM-BASE (A1)
```

```
0290 02 FILLER3      (A2)
0300 02 #ACCEPT      (A4)
0310 01 REDEFINE #IN
0320 02 #FILLER2      (A1)
0330 02 #DATA         (A8)
0340 01 REDEFINE #IN
0350 02 #FILLER4      (A6)
0360 02 #LOGON        (A14)
0370 02 REDEFINE #LOGON
0380 03 #LOG          (A5)
0390 01 #LIST-OBJ     (A10)
0400 01 #CNT          (P5)
0410 01 #IND          (A1)
0420 01 #NO-LIST      (A33) INIT <'CANNOT LIST OBJECT WITH THIS NAME'>
0430 END-DEFINE
0440 FORMAT PS=60
0450 WRITE TITLE LEFT JUSTIFIED 5X
0460 'THE FOLLOWING LIST COMMANDS HAVE BEEN CREATED' 15X *PAGE-NUMBER
0470 READ WORK FILE 1 #IN
0480 AT END OF DATA
0490 WRITE '*****' #CNT 'OBJECTS TO FOLLOW *****'
0500 END-ENDDATA
0510 RESET #NO-LIST
0520 IF #BASE = 'NEXT' OR #BASE = 'Next' AND #LOG = 'LOGON'
0530   STACK COMMAND #LOGON      /* ALLOWS FOR LOGON
0540 *                  /* COMMANDS MIDSTREAM
0550 END-IF
0560 IF #BASE = 'NEXT' OR #BASE = 'Next' OR
0570   #ACCEPT = 'ACCE' OR #ACCEPT = 'Acce'
0580 ASSIGN #IND = 'X'
```

```
0590 ESCAPE TOP
0600 END-IF
0610 REJECT IF #IND NE 'X' OR #NUM-BASE IS (N1)
0620   OR #BASE = 'Next' OR #BASE = 'Sour' OR #BASE = 'User'
0630   OR #BASE = 'NEXT' OR #BASE = 'SOUR' OR #BASE = 'USER'
0640   OR #BASE = 'Name' OR #BASE = 'Obje'
0650   OR #BASE = 'NAME' OR #BASE = 'OBJE' OR #BASE = 'NAT9'
0660   OR #BASE = ' ' OR #BASE = '*****' OR #BASE = '----'
0670   OR #BASE = 'Logo' OR #BASE = 'LOGO'
0680   OR #ACCEPT = 'ACCE' OR #ACCEPT = 'ACCE' OR #BASE = 'X '
0690 IF #DATA NE 'COUNT' AND #DATA NE 'DIR'
0700   COMPRESS 'L' #DATA INTO #LIST-OBJ
0710   STACK COMMAND #LIST-OBJ
0720   ADD 1 TO #CNT
0730 ELSE
0740   RESET INITIAL #NO-LIST
0750   ASSIGN #LIST-OBJ = #DATA
0760 END-IF
0770 WRITE NOTITLE NOHDR 10X #LIST-OBJ #NO-LIST
0780 END-WORK

0790 END
```

### 3.1.6.3 DATA SET NAME: MSIRM.NEMS.NEMSMOV (example)

GENERAL DATA	CURRENT ALLOCATION:
Management class:	Allocated cylinders: 13
Storage class:	TSUCLAS
Volume:	STZ011
Device type:	3390
	Allocated extents: 1

Data class:	CURRENT UTILIZATION:
Organization:	Used cylinders: 5
Record format:	Used extents: 1
Record length:	
Block size:	
1st extent cylinders:	80
Secondary cylinders:	13
Data set name type:	PDS
Creation date:	1997/04/22
Expiration date:	***NONE***

### 3.1.6.4 JCL to Create PDS Members

```
***** ***** TOP OF DATA *****  
000100 //IRNATPDS JOB (MSIRMNPDM004),'NATURAL PDS',  
000200 //      CLASS=D,MSGCLASS=A,  
000300 //      NOTIFY=XXXXX  
000400 //*****  
000500 /*  
000600 //ND01 EXEC N02Z,PRM='IM=D,MT=99999'  
000700 //CMPRINT DD DSN=MSIRM.NEMS.OBJS,UNIT=SYSDA,  
000800 //      DISP=OLD,SPACE=(CYL,(2,1)),  
000810 //      DCB=(RECFM=FB,LRECL=133,BLKSIZE=23408)  
000900 //CMSYNIN DD *  
001000 NEMSINV,XXXXX,XXXXX  
001100 L *  
001101 /* L L *  
001102 /* L G *  
001103 /* L H *
```

```
001104 /* L M *
001110 /* L P *
001120 /* L N *
001130 /* L S *
001140 /* L C *
001200 FIN
001300 /*
001651 //*****
001660 //ND02 EXEC N02Z,PRM='IM=D,MT=99999'
001670 //CMPPRINT DD DSN=MSIRM.NEMS.SOURCE,UNIT=SYSDA,
001680 //      DISP=OLD,SPACE=(CYL,(120,10),RLSE),
001681 //      DCB=(RECFM=FB,LRECL=133,BLKSIZE=23408)
001690 //CMSYNIN DD *
001691 NEMSINV,XXXXX,XXXXX
001692 OBJ1
001693 FIN
001694 /*
001695 //CMWKF01 DD DSN=MSIRM.NEMS.OBJS,DISP=OLD
002160 //*****
002170 //ND03 EXEC N02Z,PRM='IM=D,MT=99999'
002180 //CMPPRINT DD SYSOUT=A
002191 //CMSYNIN DD *
002192 NEMSINV,XXXXX,XXXXX
002193 PLATPRG1
002194 FIN
002195 /*
002196 //CMWKF01 DD DSN=MSIRM.NEMS.SOURCE,DISP=OLD
002197 //CMWKF02 DD DSN=MSIRM.NEMS.TEMP,UNIT=3390,
002198 //      DISP=OLD,SPACE=(CYL,(120,10),RLSE),
002199 //      DCB=(RECFM=FB,LRECL=80,BLKSIZE=24000)
```

```
002200 //*****  
002210 //ND04 EXEC PGM=IEBUPDTE  
002220 //SYSPRINT DD DUMMY  
002280 //SYSUT1 DD DSN=MSIRM.NEMS.NEMSMOV,DISP=OLD  
002281 //SYSUT2 DD DSN=MSIRM.NEMS.NEMSMOV,DISP=OLD  
002290 //SYSIN DD DSN=MSIRM.NEMS.TEMP,DISP=OLD  
002300 //  
***** ***** BOTTOM OF DATA *****
```

### **3.1.7 TSO/ISPF batch scan facility examples of JCL**

```
***** ***** TOP OF DATA *****  
000100 //IRISPFSC JOB (MSIRMNPDM004),'ISPF SEARCH',MSGCLASS=A,CLASS=D  
000120 /*JOBPARM LINES=2000  
000200 //SEARCH EXEC PGM=ISRSUPC,  
000300 //      PARM=(SRCHCMP,  
000400 //      'ANYC')  
000500 //NEWDD DD DSN=MSIRM.NEMS.NEMSMOV,VOL=SER=STZ002,  
000600 //      DISP=SHR  
000700 //OUTDD DD SYSOUT=A  
000800 //SYSIN DD *  
001000 SRCHFOR '*DAT'  
001100 SRCHFOR '-CC'  
001200 SRCHFOR '-CC-'  
001300 SRCHFOR '_CC'  
001400 SRCHFOR '_CC_'  
001500 SRCHFOR 'ANNIV-'  
001600 SRCHFOR 'CALEND'  
001700 SRCHFOR 'CALND  
001800 SRCHFOR 'CENT'
```

001900 SRCHFOR 'CNTRY'  
002000 SRCHFOR 'DAT'  
002100 SRCHFOR 'DT'  
002200 SRCHFOR 'DTE'  
002300 SRCHFOR 'DYM'  
002400 SRCHFOR 'GREG'  
002500 SRCHFOR 'JUL'  
002600 SRCHFOR 'MDY'  
002700 SRCHFOR 'MMDDY'  
002800 SRCHFOR 'MY'  
002900 SRCHFOR 'URY'  
003000 SRCHFOR 'YDM'  
003100 SRCHFOR 'YEAR'  
003200 SRCHFOR 'YM'  
003300 SRCHFOR 'YR'  
003310 SRCHFOR 'YY'  
003400 /\*

\*\*\*\*\* \*\*\*\*\* BOTTOM OF DATA \*\*\*\*\*

## **4. FUNCTIONS**

### **4.1 SCREENS**

#### **4.1.1 Main Menu - Request Scan (Y-MENU option 1)**

```
Y-MENU          Y 2 K  SCAN and CONVERSION S Y S T E M      04/10/97
                                                               12:16:21

1. Request a SCAN or CONVERT process
2. Fields on an ADABAS File
3. Extracted values within fields
4. Reserved words to eliminate or target process
5. Rules to convert a DATE
6. FINDINGS Report

E. Process ERRORS for Y2K SCAN
L. LOOK

SELECTION: 1_
```

Purpose: List system functions

Called from Screen: N/A

Calls Screens: Option Screen

1 - Y-TBLS  
2 - Y-TBLF  
3 - Y-TBLE  
4 - Y-TBLV  
5 - Y-TBLR  
6 - Y-RPT  
E - TBLERR  
L - LOOK

Instruction Steps:

**INPUT DATA:**

- Enter '1' in Selection Field ('1','2','3','4','5','6','E' and 'L' are valid entries)
- Press <ENTER>. The system displays the requested screen

#### 4.1.1.1 Request Scan Library Name

```
To List, Maintain or Start a SCAN or CONVERSION Process
Enter a process type of 'S' Scan or 'C' Convert.
Enter a Library Name or leave blank to start list.

Select PROCESS: S (S OR C)
LIBRARY NAME: _____
PRESS PF1 TO REVIEW THE PROCESS

PF1=HELP PF3=EXIT
```

Purpose: To List, Maintain, or Start a SCAN or CONVERSION Process.

Called from Screen: Y-MENU

Calls Screen: N/A

Instruction Steps:

**INPUT DATA:**

- Process Input Value = S (Scan), C(Conversion), or blank
- Enter Library Name
- Press PF3. The system returns to the previous screen.
- Press PF1. The system displays the Request Help Screen
- Press <ENTER> The system displays the requested screen

#### 4.1.1.2 Request Scan Help Screen

```
----- REQUEST HELP SCREEN -----
Process steps:
 1. ADD Request to SCAN - Request DATE/TIME/USER will be updated.
 2. Select a SCAN to RUN - Complete DATE/TIME/USER will be updated.
 3. Select a CONV to run - Request will change from a 'S' to 'C'
   (currently not used) and Complete DATE/TIME/USER will be
   updated.
 4. Review using Option 6 - Online report.

To RE- Run:
  Select 'D' (delete) and Option 1 - This will Delete Finding records
  only.

To DELETE:
  Select 'D' (delete) and Option 2 - This will Delete Requested record
  and Findings records.
```

Purpose: Provide Help for the Request screens

Called from Screen: Y-MENU

Calls Screen: N/A

Instruction Steps:

- Press <ENTER>. The system returns to the Request Library Name Screen.

#### 4.1.1.3 Request Scan Results Screen

SCAN PROCESS REQUEST LIST.				
Y-TBLS	LIST OF SCAN/CONVERT REQUEST	04/23/97		
A P LIBRARY	PGM FR-----TO	MMDD/HHMM-USER	C-MMDD/HHMM-USER	TABLE
- S NEBASE	PRM310P1 RPT762P2	042301143	MSBCA	NEMS
- S NIBASE	ACOMMON TRN187P1	042201329	MSJLV	
- S NMBASE	ACOMMON TRNWRNS4	042201329	MSJLV	0423 1320 MSJLV
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -	- - - - -
PF1=HELP PF3=EXIT PF8=FRWD				

Purpose: Displays the scan results.

Called from Screen: Y-MENU

Calls Screen: N/A

Instruction Steps:

##### INPUT DATA:

- (Column A) Input values = A (Add), C (Update), or D (Delete)
- Program From To (programs to scan begin and optional end if left blank all programs in library scanned).
- Table name to use for the requested Scan (see 4.1.3 Y2K Main Menu (Y-Menu option 3))
- Press PF1. The system displays the 4.1.1.4 Action Field Help Screen.
- Press PF3. The system returns to the previous screen.
- Press PF8. The List of SCAN/CONVERT Request Screen scrolls forward.
- Press <ENTER>. The system displays the message "Fields have been processed".

##### OUTPUT DATA:

- (Column P) Output values = 'C' Conversion or 'S' Scan
- (Library) Output value = (4.1.1.1 Request Scan Library Name Input)
- Output values Date/Time/User Name requesting Scan

- Output values Date/Time/User Name Scan completed

#### 4.1.1.4 ACTION FIELD HELP SCREEN

```
----- ACTION FIELD HELP SCREEN -----  
Action Codes for all screens:
```

```
A = ADD a record.  
C = UPDATE a record.  
D = DELETE a record.  
S = SCAN to be processed (where applicable).  
C = CONV to be processed (where applicable).
```

Purpose: Provides a list of valid action fields for input.

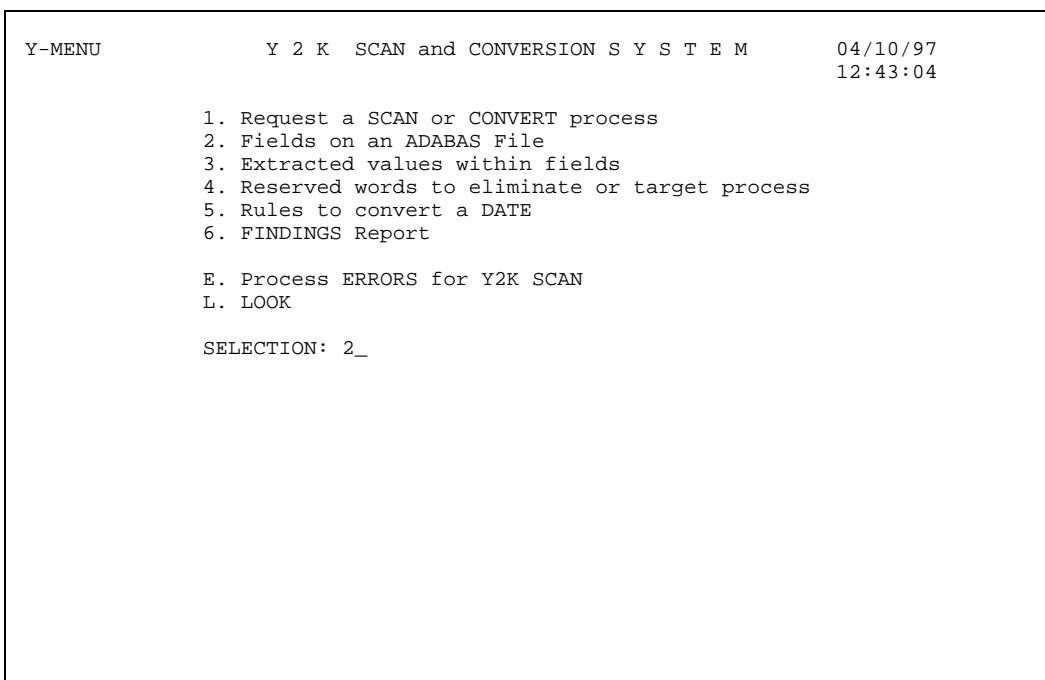
Called from Screen: N/A

Calls Screen: N/A

Instruction Steps:

- Press <ENTER>. The system returns to the Request Scan Results Screen

#### **4.1.2 Main Menu - Fields on ADABAS File (Y-MENU option 2)**



Purpose: Builds Y-TBLF table of elements known to be extracted for scan facility to use for a specific file. Each core file will be documented for default tables.

Called from Screen: N/A

Calls Screen: ADABAS File Input Screen

Instruction Steps:

- Enter '2' in Selection Field ('1','2','3','4','5','6','E' and 'L' are valid entries).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.2.1 ADABAS File Input Screen

```
>>>> ENTER A FILE NAME OR LEAVE BLANK <<<<  
  
THIS IS A LIST OF FIELD NAMES FOR A FILE.  
These values will aid in the search for a date field  
Please enter a File Name for the FIELDS to view.  
  
FILE NAME : _____
```

Purpose: Screen requires a file name to be entered.

Called from Screen: Y-MENU

Calls Screen: 4.1.2.2 Fields on ADABAS File Results Screen

Instruction Steps:

**INPUT DATA:**

- Enter File Name
- Press <ENTER> The system displays Fields on ADABAS File Results Screen

#### 4.1.2.2 Fields on ADABAS File Results Screen

Y-TBLF FIELD SCAN CRITERIA FOR: NEMS-EQUIPMENT			04/27/97
ACT	FIELD	FORMAT	CROSS REFER
-	CURRENT-DATE_____	N00006	_____
-	DATE-AVAILABLE_____	N00006	_____
-	DATE-BORROWED-OUT_____	N00006	_____
-	DATE-CALABRATION-DUE_____	N00006	_____
-	DATE-INST-ACQ_____	N00006	_____
-	DATE-INVENTORIED_____	N00006	_____
-	DATE-L-L-B-IN-DUE_____	N00006	_____
-	DATE-L-L-B-OUT-DUE_____	N00006	_____
-	DATE-LAST-CALIBRATED_____	N00006	_____
-	DATE-LAST-SERV_____	N00006	_____
-	DATE-LEASED-OUT_____	N00006	_____
-	DATE-LOANED-OPUT_____	N00006	_____
-	DATE-NASA-ACQ_____	N00006	_____
-	DATE-REPAIR-RETURN-DUE_____	N00006	_____
-	DATE-SHIPPED-OTHER-INST_____	N00006	_____
-	DATE-STATUS-CODED_____	N00006	_____
-	DATE-STORAGE-DUE_____	N00006	_____
-	DATE-STORED-IN_____	N00006	_____
-	DATE-WRNTY-EXP-LABOR_____	N00004	_____
-	DATE-WRNTY-EXP-MATERIAL_____	N00004	_____

PF1=HELP PF3=EXIT PF8=FRWD

Purpose: Displays data elements, format and cross reference pre-loaded into the table for a file. Allows user to Add, Update, and Delete elements on the Y-TBLE table.

Called from Screen: N/A

Calls Screen: N/A

Instruction Steps:

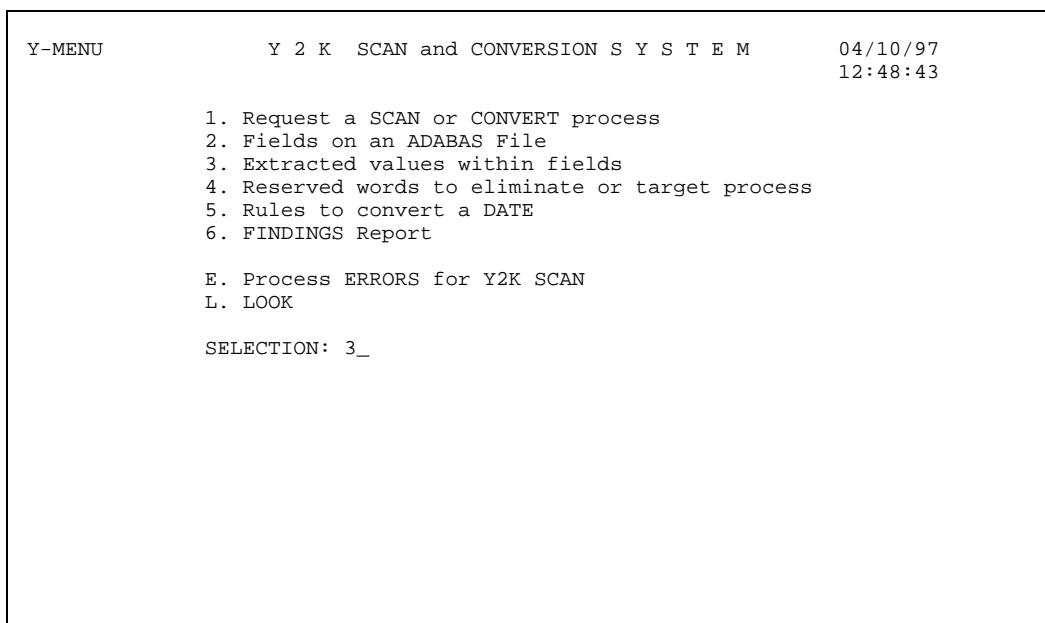
##### INPUT DATA:

- (ACT) 'A' (Add an element/format/reference) 'C' (Update an element/format /reference) 'D' Delete an element/format/reference)
- Press PF1. The system displays the 4.1.1.4 Action Field Help Screen.
- Press PF3. The system returns to the previous screen.
- Press PF8. The List of SCAN/CONVERT Request Screen scrolls forward.
- Press <ENTER>. The system displays the message "Fields have been processed".

##### OUTPUT DATA:

- Data element/ format/reference

#### **4.1.3 Main Menu - Extract Values within Fields (Y-MENU option 3)**



Purpose: Builds Y-TBLE table of data elements wild card naming conventions used to extract fields in the scan, also requires a field format assigned to each. If multiple field formats are applicable multiple table entries are required. Entering a space preceding the element name instructs the scan to ignore elements found with that name and format.

Called from Screen: Y-MENU

Calls Screen: Table Name for Extract Values within Fields

Instruction Steps:

- Enter '3' in Selection Field ('1','2','3','4','5','6','E' and 'L' are valid entries)
- Press <ENTER> The system displays the requested screen

#### 4.1.3.1 Table Name for Extract Values within Fields Screen

Enter a Table name, Enter a new Table name, Enter a Copy Name Note existing tables, listed below:		
BASE	NEMS	PCM
Table Name: _____ Copy Name: _____		
PF1=HELP PF3=EXIT		PF6=DELETE

Purpose: Process allows input of Table Name.

Called from Screen: Y-MENU

Calls Screen: Extract Values within Fields results screen

Instruction Steps:

**INPUT DATA:**

- Enter Table Name:
- Enter Table Name to copy from:
- Press PF1. The system displays the Table Name Help Screen (See 4.1.3.2).
- Press PF3. The system returns to the previous screen.
- Press PF6. The Table listed is deleted. **BE CAUTIOUS THIS OPTION DOES NOT GIVE THE USER A WARNING!**
- Press <ENTER>. The system displays the message “Fields have been processed”.

#### 4.1.3.1.1 Table Name for Extract Values within Fields Help Screen

Enter a table from the list to Review/Modify

To create a new table,  
1 Enter the new table name  
2 Enter a name form the list to copy  
3 hit enter and review the new table

Purpose: Help instructions.

Called from Screen: Table Name for Extract Values within Fields Screen

Calls Screen: N/A

Instruction Steps:

Press <ENTER>. The system re-displays the Table Name for Extract Values within Fields Screen.

#### 4.1.3.2 Table Name for Extract Values within Fields Results Screen

Y-TBLE	FIELD	EXTRACT	SCAN	CRITERIA-TABLE: BASE	04/27/97
ACT	FIELD				
-	#CUST_____	A00999			
-	#KEY1_____	A00999			
-	#KEY2_____	A00999			
-	#TABKEY_____	A00999			
-	-DD_____	A00999			
-	-DT_____	A00006			
-	-MM_____	A00999			
-	-YR_____	A00002			
-	-Y1_____	A00999			
-	-Y2_____	A00999			
-	#-19_____	A00002			
-	#CC_____	A00002			
-	#DAT_____	A00999			
-	#DD_____	A00002			
-	#DTE_____	A00999			
-	#D1_____	A00999			
-	#D2_____	A00999			
-	#MM_____	A00002			
-	#M1_____	A00999			
-	#M2_____	A00999			
PF1=HELP PF3=EXIT PF8=FRWD					

Purpose: Build Allows the user to display, add, update and delete values and format in table.

Called from Screen: Table Name for Extract Values within Fields Screen

Calls Screen: N/A

Instruction Steps:

##### INPUT DATA:

- ACT Input values = 'A' (Add), 'C' (Update), or 'D' (Delete)
- Press PF1. The system displays the 4.1.1.4 Action Field Help Screen.
- Press PF3. The system returns to the previous screen.
- Press PF8. The table list scrolls forward.
- Press <ENTER>. The system displays the message "Fields have been processed".

INPUT TABLES PRE-LOADED WITH THE SOFTWARE FOLLOW: (Underscore preceding an element represents a space (when entering a blank the user must use space bar and not arrow over to the next position), which instructs the software not to report the data element in the report.)

Y-TBLE: BASE	Y-TBLE: BASE	Y-TBLE: BASE	Y-TBLE: BASE	Y-TBLE: BASE	Y-TBLE: BASE
_#CUST	A00999	#START-D	A00006	Y2-	A00999
_#KEY1	A00999	#STOP-D	A00006		
_#KEY2	A00999	CENT-	A00002		
_#TABKEY	A00999	CENTURY	A00002		
-DD	A00999	CENTURY	N00002		
-DT	A00006	DATE	A00006		
-MM	A00999	DATE	A00008		
-YR	A00002	DATE	N00006		
-Y1	A00999	DT-	A00006		
-Y2	A00999	GREG	A00999		
#-19	A00002	JDATE	A00999		
#CC	A00002	JUL	A00999		
#DAT	A00999	MDY	A00999		
#DD	A00002	YEAR	A00002		
#DTE	A00999	YEAR	A00008		
#D1	A00999	YEAR	N00004		
#D2	A00999	YY	A00002		
#MM	A00002	Y1	A00002		
#M1	A00999	Y1-	A00999		
#M2	A00999	Y2	A00002		

Y-TBLE: INV	04/24/97	Y-TBLE: INV	04/24/97	Y-TBLE: INV	04/24/97
_#CUST	A00999	#START-D	A00006	Y2-	A00999
_#KEY1	A00999	#STOP-D	A00006		
_#KEY2	A00999	CENT-	A00002		
_#TABKEY	A00999	CENTURY	A00002		
-DD	A00999	CENTURY	N00002		
-DT	A00006	DATE	A00006		
-MM	A00999	DATE	A00008		
-YR	A00002	DATE	N00006		
-Y1	A00999	DT-	A00006		
-Y2	A00999	GREG	A00999		
#-19	A00002	JDATE	A00999		
#CC	A00002	JUL	A00999		
#DAT	A00999	MDY	A00999		
#DD	A00002	YEAR	A00002		
#DTE	A00999	YEAR	A00008		
#D1	A00999	YEAR	N00004		
#D2	A00999	YY	A00002		
#MM	A00002	Y1	A00002		
#M1	A00999	Y1-	A00999		
#M2	A00999	Y2	A00002		

Y-TBLE: NEMS	04/24/97	Y-TBLE: NEMS	04/24/97	Y-TBLE: NEMS	04/24/97
_#CUST	A00999	#START-D	A00006	Y2-	A00999
_#KEY1	A00999	#STOP-D	A00006		
_#KEY2	A00999	CENT-	A00002		
_#TABKEY	A00999	CENTURY	A00002		
-DD	A00999	CENTURY	N00002		
-DT	A00006	DATE	A00006		
-MM	A00999	DATE	A00008		
-YR	A00002	DATE	N00006		
-Y1	A00999	DT-	A00006		
-Y2	A00999	GREG	A00999		
#-19	A00002	JDATE	A00999		
#CC	A00002	JUL	A00999		
#DAT	A00999	MDY	A00999		
#DD	A00002	YEAR	A00002		
#DTE	A00999	YEAR	A00008		
#D1	A00999	YEAR	N00004		
#D2	A00999	YY	A00002		
#MM	A00002	Y1	A00002		
#M1	A00999	Y1-	A00999		
#M2	A00999	Y2	A00002		

Y-TBLE: PCM	04/24/97	Y-TBLE: PCM	04/24/97
_#CUST	A00999	CENT-	A00002
_#KEY1	A00999	CENTURY	A00002
_#KEY2	A00999	CENTURY	N00002
_#TABKEY	A00999	DATE	A00006
-DD	A00999	DATE	A00008
-DT	A00006	DATE	N00006
-MM	A00999	DT-	A00006
-YR	A00002	GREG	A00999
-Y1	A00999	JDATE	A00999
-Y2	A00999	JUL	A00999
#-19	A00002	MDY	A00999
#CC	A00002	YEAR	A00002
#DAT	A00999	YEAR	A00008
#DD	A00002	YEAR	N00004
#DTE	A00999	YY	A00002
#D1	A00999	Y1	A00002
#D2	A00999	Y1-	A00999
#MM	A00002	Y2	A00002
#M1	A00999	Y2-	A00999
#M2	A00999		

#### **4.1.4 Main Menu - Reserved Words (Y-Menu option 4)**

```
Y-MENU          Y 2 K  SCAN and CONVERSION S Y S T E M      04/10/97
                           12:54:59

1. Request a SCAN or CONVERT process
2. Fields on an ADABAS File
3. Extracted values within fields
4. Reserved words to eliminate or target process
5. Rules to convert a DATE
6. FINDINGS Report

E. Process ERRORS for Y2K SCAN
L. LOOK

SELECTION: 4_
```

Purpose: Reserved Words used in the scan process. Instructional word represent NATURAL syntax. CHANGE this option at your own risk, support for this option is **NOT** provided.

Called from Screen: Y-MENU

Calls Screen: Enter Reserved Words Screen

Instruction Steps:

##### **INPUT DATA**

- Enter '4' in Selection Field ('1','2','3','4','5','6','E' and 'L' are valid entries)
- Press <ENTER> The system displays the requested screen

#### 4.1.4.1 Enter Reserve Word Screen

```
>>>> Enter a starting WORD or leave blank <<<<  
This is a list of reserved WORDS that will be  
used to eliminate or target instructions.  
These values will aid in the search for a date field  
Reserved Word: _____
```

Purpose: Enter specific word to be added, updated, deleted or leave blank for all of the words.

Called from Screen: Y-MENU

Calls Screen: Reserved Words Results Screen

Instruction Steps:

**INPUT DATA:**

- Enter specific reserved word or leave blank
- Press <ENTER>. The system displays Reserved Words Results Screen.

#### 4.1.4.2 Reserved Words Results Screen

Y-TBLV	WORD	RESERVED WORD LIST	04/10/97
ACT		FUNC	
-	:=	I	
-	ACCEPT	I	
-	ADD	I	
-	ALARM	R	
-	ALL	R	
-	AND	R	
-	ASSIGN	I	
-	AT	I	
-	AT	R	
-	BACKOUT	I	
-	BEFORE	I	
-	BREAK	I	
-	BY	R	
-	CALL	I	
-	CALLNAT	I	
-	COMPRESS	I	
-	COMPUTE	I	
-	CONTROL	R	
-	DECIDE	I	
-	DEFINE	I	

PF1=HELP PF3=EXIT PF8=FWRD

Purpose: Display entries in Y-TBLV

Called from Screen: Enter Reserve Word Screen

Calls Screen: N/A

Instruction Steps:

##### INPUT DATA

- ACT Input values = 'A' (Add), 'C' (Update), or 'D' (Delete)
- Press PF1. The system displays the 4.1.1.4 Action Field Help Screen.
- Press PF3. The system returns to the previous screen.
- Press PF8. The table list scrolls forward.
- Press <ENTER>. The system displays the message "Fields have been processed".

##### OUTPUT DATA

- Reserve Word and Function

INPUT TABLES PRE-LOADED WITH THE SOFTWARE FOLLOW:

(Function I = Instruction (NATURAL syntax) Function R = Reserved Word)

<b>Word</b>	<b>Func</b>	<b>Word</b>	<b>Func</b>	<b>Word</b>	<b>Func</b>
:=	I	DELETE	I	EXAMINE	I
ACCEPT	I	DELIMITER	R	FALSE	R
ADD	I	DISPLAY	I	FETCH	I
ALARM	R	DIVIDE	I	FILE	R
ALL	R	DO	R	FIND	I
AND	R	DOEND	R	FIRST	R
ASSIGN	I	EDITED	R	FOR	I
AT	I	ELSE	R	FORMAT	I
AT	R	END-FIND	R	GET	I
BACKOUT	I	END-FOR	R	GIVING	R
BEFORE	I	END-HISTOGRAM	R	HISTOGRAM	I
BREAK	I	END-IF	R	IF	I
BY	R	END-READ	R	IGNORE	R
CALL	I	END-REPEAT	R	INDEXED	R
CALLNAT	I	END-START	R	INPUT	I
COMPRESS	I	END-WORK	R	ISN	R
COMPUTE	I	EQ	R	LEAVING	R
CONTROL	R	ERASE	R	LIMIT	I
DECIDE	I	ERROR	R	LOOP	R
DEFINE	I	ESCAPE	I	MARK	R

<b>Word</b>	<b>Func</b>	<b>Word</b>	<b>Func</b>	<b>Word</b>	<b>Func</b>
MOVE	I	PF19	R	REJECT	I
MULTIPLY	I	PF2	R	RELEASE	I
NAMED	R	PF20	R	REMAINDER	R
NEWPAGE	I	PF21	R	REPEAT	I
NO	R	PF22	R	RESET	I
NOHDR	R	PF23	R	RETRY	I
NOT	R	PF24	R	RETURN	I
OBTAIN	I	PF3	R	RUN	I
ON	I	PF4	R	SELECT	I
PERFORM	I	PF5	R	SEPARATE	I
PF1	R	PF6	R	SET	I
PF10	R	PF7	R	SKIP	I
PF11	R	PF8	R	SORT	I
PF12	R	PF9	R	STACK	I
PF13	R	PHYSICAL	R	STARTING	R
PF14	R	PRINT	I	STOP	I
PF15	R	READ	I	STORE	I
PF16	R	RECORD	R	SUBROUTINE	R
PF17	R	REDEFINE	I	SUBSTRING	R
PF18	R	REINPUT	I	SUBTRACT	I

Word	Func
TERMINATE	I
THEN	R
THRU	R
TITLE	R
TOP	R
TOTAL	R
TRANSACTION	R
UPDATE	I
WHERE	R
WINDOW	R
WITH	R
WRITE	I

#### **4.1.5 Main Menu - Rule to Convert a Date (-Menu option 5)**

Y-MENU	Y 2 K SCAN and CONVERSION S Y S T E M	04/10/97 14:14:00
<p>1. Request a SCAN or CONVERT process 2. Fields on an ADABAS File 3. Extracted values within fields 4. Reserved words to eliminate or target process 5. Rules to convert a DATE 6. FINDINGS Report</p> <p>E. Process ERRORS for Y2K SCAN L. LOOK</p> <p>SELECTION: 5_</p>		

Purpose: This option is **NOT** supported at this time

Called from Screen: Y-MENU

Calls Screen: Enter Rules Code Screen

Instruction Steps:

##### **INPUT DATA**

- Enter '5' in Selection Field ('1','2','3','4','5','6','E' and 'L' are valid entries).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.5.1 Rule to Convert - Rule Code Screen

```
>>>> Enter a starting RULE or leave blank <<<<
```

This is a list of rule codes to help determine  
how to convert a particular DATE field.

Rule Code : \_\_

Purpose: Enter specific rule to be added, updated, deleted or leave blank for all of the words.

Called from Screen: Main Menu - Rules to Convert

Calls Screen: Rules to Convert Results Screen

Instruction Steps:

##### INPUT DATA:

- Enter specific reserved word or leave blank.
- Press <ENTER>. The system displays Rules to Convert Results Screen.

#### 4.1.5.2 Rules to Convert Results Screen

Y-TBLR ACT   RULE	CONVERTING RULES CRITERIA DESCRIPTION	04/10/97
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
-		
PF1=HELP PF3=EXIT PF8=FRWD		

Purpose: Display Action, Rule, Description entries in Y-TBLR

Called from Screen: Rule to Convert - Rule Code Screen

Calls Screen: N/A

Instruction Steps:

##### INPUT DATA

- ACT Input values = 'A' (Add), 'C' (Update), or 'D' (Delete)
- Press PF1. The system displays the 4.1.1.4 Action Field Help Screen.
- Press PF3. The system returns to the previous screen.
- Press PF8. The table list scrolls forward.
- Press <ENTER>. The system displays the message "Fields have been processed".

##### OUTPUT DATA

- Rules and Description

#### **4.1.6 Main Menu - Findings Report (Y-MENU option 6)**

Y-MENU	Y 2 K SCAN and CONVERSION S Y S T E M	04/10/97 14:16:40
<ul style="list-style-type: none"><li>1. Request a SCAN or CONVERT process</li><li>2. Fields on an ADABAS File</li><li>3. Extracted values within fields</li><li>4. Reserved words to eliminate or target process</li><li>5. Rules to convert a DATE</li><li>6. FINDINGS Report</li></ul>		
<ul style="list-style-type: none"><li>E. Process ERRORS for Y2K SCAN</li><li>L. LOOK</li></ul>		
SELECTION: 6_		

Purpose: Displays the scan report generated online and batch flat file created.

Called from Screen: Y-MENU

Calls Screen: Findings Report Input Library/Program Screen

Instruction Steps:

**Step 1**

- Enter '6' in Selection Field ('1','2','3','4','5','6','E' and 'L' are valid entries).
- Press <ENTER>. The system displays the requested screen

#### 4.1.6.1 Findings Report Input Library/Program Screen



Purpose: Choose which report generated you wish to review.

Called from Screen: Y-MENU

Calls Screen: Findings Report Results Screen

Instruction Steps:

##### INPUT DATA

- Enter Library Name
- Enter Start Program
- Press PF3. The system returns to the previous screen.
- Press PF8. The table list scrolls forward.
- Press <ENTER>. The system displays the message "Fields have been processed".

#### 4.1.6.2 Scan Findings Report Screen

```
MORE
FINDING          Y 2 K   FINDINGS REPORT           97-04-10 PAGE:      23
                  14:25:11

LIBRARY    MODULE   TYPE STATUS   SAVE DATE / TIME     USERID   PGM MODE
-----      -----   ---  ---      -----  /  -----      -----   ---  ---
NEBASE     ADHSUPS1 SUBP SCAN      01/04/95  10:34:04  P1CXD

DEFINITION          PASS        TYPE MODULE-NAME
-----
NO DATE FOR MODULE

INS REF ----- NO INSTRUCTIONS REFERENCED
```

Purpose: Findings report displays fields that were identified in the scan and the line of NATURAL code the scan found.

Called from Screen: Y-MENU

Calls Screen: N/A

Instruction Steps:

- Press <ENTER>.

#### **4.1.7 Main Menu - Process Errors (Y-MENU option E)**

Y-MENU	Y 2 K SCAN and CONVERSION S Y S T E M	04/10/97 14:27:34
<p>1. Request a SCAN or CONVERT process 2. Fields on an ADABAS File 3. Extracted values within fields 4. Reserved words to eliminate or target process 5. Rules to convert a DATE 6. FINDINGS Report</p> <p>E. Process ERRORS for Y2K SCAN L. LOOK</p> <p>SELECTION: E_</p>		

Purpose: Allows the user to delete the online error log.

Called from Screen: Y-MENU

Calls Screen: Error Log Report Screen

Instruction Steps:

**Step 1**

- Enter 'E' in Selection Field ('1','2','3','4','5','6','E' and 'L' are valid entries).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.7.1 Error Log Report Screen

```
MORE
ISN TIME STAMP      LIBRARY PROGRAM ERLN
 78 19970330124118 NEBASE  MSD010P1      ERROR NUMBER 1316 ERROR-LINE 2160
 395 19970330125119 NEBASE  MSD010P1      ERROR NUMBER 1316 ERROR-LINE 2160
   29 19970330125345 NEBASE  MSD010P1      ERROR NUMBER 1316 ERROR-LINE 2160
1039 19970331121712 NEBASE  TRN062P5 4630 ERP S-RMFLD ER# 1316 ERL 2160
1624 19970403100601 NEBASE  MSD001P1 0330 ERP S-RMFLD ER# 1326 ERL 3840
1626 19970403100704 NEBASE  MSD001P1 0330 ERP S-RMFLD ER# 1326 ERL 3840
1628 19970403100851 NEBASE  MSD001P1 0330 ERP S-RMFLD ER# 1326 ERL 3840
```

Purpose: Displays ISN, TIME STAMP, LIBRARY, PROGRAM, ERROR Line

Called from Screen: Y-MENU

Calls Screen: N/A

Instruction Steps:

Press <ENTER>.

#### **4.1.8 Main Menu - Look Menu (Y-MENU option L)**

Y-MENU	Y 2 K SCAN and CONVERSION S Y S T E M	04/10/97 14:28:45
<ul style="list-style-type: none"><li>1. Request a SCAN or CONVERT process</li><li>2. Fields on an ADABAS File</li><li>3. Extracted values within fields</li><li>4. Reserved words to eliminate or target process</li><li>5. Rules to convert a DATE</li><li>6. FINDINGS Report</li> <li>E. Process ERRORS for Y2K SCAN</li><li>L. LOOK</li></ul>		
SELECTION: L_		

Purpose: Menu of NATURAL UTILITIES such as List Library, List Programs Names, List program Scan programs for up to 20 specific list items, Find a module in the system, List of Files which contain a specified element, and Help for the menu.

Called from Screen: Y-MENU

Calls Screen: Source Program Scanner

Instruction Steps:

**Step 1**

- Enter 'L' in Selection Field ('1','2','3','4','5','6','E' and 'L' are valid entries).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.1 Look Menu - List Library Name (LOOK option L)

```
SOURCE PROGRAM SCANNER

LIBRARY _____ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION L  L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP
```

```
PF3=QUIT Thursday, 10 April, 1997      DAY 100 WEEK 15      14:47:35:5
```

Purpose: List Library Names.

Called from Screen: LOOK

Calls Screen: List Library Names Results Screen

Instruction Steps:

**INPUT DATA:**

- Enter Starting Library (Blank is valid).
- Enter Starting Program (Blank is valid).
- Enter 'L' in Selection Field ('L','P','B','A','S','F','W' and 'H' are valid entries).
- Press PF3. The system displays Main Menu (Y-MENU).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.1.1 List Library Names Results Screen

```
LIBRARY/MODULE/TYPE
BACDB2CS
BACDB2WK
BNADB2A
BNADB2C
BNADB2D
BNADB2EX
BNAVSMA
BNAVSMC
BNAVSMC
BNAVSMEX
BNAVSMW
BNAV21A
BNAV21D
BNAV21EX
BNAV21W
CABASE
DBAONLY
MACDB2WK
MANDB2D
MANDB2W
NCBASE
PF13=SELECTION SCREEN  PF1=SKIP TO NEXT PROGRAM 04/27/97
```

Purpose: Displays a listing of Libraries requested

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

**INPUT DATA:**

- Press PF1. The system skips to next program.
- Press PF13. The system call Selection Screen (Y-MENU).

#### 4.1.8.2 Look Menu - List Program Names (LOOK option P)

```
SOURCE PROGRAM SCANNER

LIBRARY Y2KLIB__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION P L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP
```

```
PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:24:31:3
```

Purpose: List Programs for a Library

Called from Screen: LOOK

Calls Screen: List Programs Results Screen

Instruction Steps:

- Enter Starting Library (Blank is valid).
- Enter Starting Program (Blank is valid).
- Enter 'P' in Selection Field ('L','P','B','A','S','F','W' and 'H' are valid entries).
- Press PF3. The system displays Main Menu (Y-MENU).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.2.1 List Program Names Results Screen

```
LIBRARY/MODULE/TYPE
Y2KLIB    FND
          FND-CC
          FTBL
          INITIAL
          INT
          LOOK
          NUM
          REL
          RPT-TEST
          S-CTL
          S-DDFLD
          S-DIS
          S-ERR
          S-EXFLD
          S-EXRTN
          S-GLOB
          S-INFLLD
          S-RMFLD
          S-WRAP
          TBL
          TBLERR
PF13=SELECTION SCREEN  PF1=SKIP TO NEXT PROGRAM 04/27/97
```

Purpose: List programs in specific Library

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

- Press PF1. The system skips to next program.
- Press PF13. The system calls Selection Screen (Y-MENU).

#### 4.1.8.3 Look Menu - Browse a Program (LOOK option B)

```
SOURCE PROGRAM SCANNER

LIBRARY Y2KLIB__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION B L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP

PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:26:53:4
```

Purpose: Browse programs within a Library starting with specific program

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

- Enter Starting Library (Blank is valid).
- Enter Starting Program (Blank is valid).
- Enter 'B' in Selection Field ('L','P','B','A','S','F','W' and 'H' are valid entries).
- Press PF3. The system displays Main Menu (Y-MENU).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.3.1 Browse a Program Results Screen

```
LIBRARY/MODULE/TYPE Y2KLIB FIND PROGRAM
0000 NAT2 }F 2.2 0006 Y2KLIB FIND MSRJH MSRJH TERM0197 ?Ó?^-S
0000     ???dê% PEE?1?S?MVS/ESA TSO           1254127 19970402
0000
-----END CONTROL DATA-----
0010 * FIND ADHOC
0020 *
0030 DEFINE DATA LOCAL
0040 1 FINDING VIEW OF Y2K-FILE
0050 * 2 Y2K-KEY
0060 2 LIBRARY-NAME
0070 2 STATUS-LIB-MDL
0080 2 MODULE-NAME
0090 2 SER-NO
0100 2 MODULE-TYPE
0110 2 SAVE-DATE
0120 2 SAVE-USERID
0130 2 C*FIELD-GROUP
0140 2 FIELD-NAME      (15)
0150 2 FIELD-FORMAT    (15)
0160 2 FIELD-LINE-NO   (15)
0170 2 REDEFINE FIELD-LINE-NO
PF13=SELECTION SCREEN PF1=SKIP TO NEXT PROGRAM 04/27/97
```

Purpose: List program code

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

- Press <ENTER>. To scroll forward.
- Press PF1. The system skips to next program.
- Press PF13. The system calls Selection Screen (Y-MENU).

#### 4.1.8.4 Look Menu - Browse a Program>Show Access (LOOK option A)

```
SOURCE PROGRAM SCANNER

LIBRARY Y2KLIB__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION A L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP

PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:28:42:5
```

Purpose: Browse programs within a Library starting with specific program with NATURAL syntax highlighted.

Called from Screen: LOOK

Calls Screen: Browse a Program>Show Access Results Screen

Instruction Steps:

- Enter Starting Library (Blank is valid).
- Enter Starting Program (Blank is valid).
- Enter 'A' in Selection Field ('L','P','B','A','S','F','W' and 'H' are valid entries).
- Press PF3. The system displays Main Menu (Y-MENU).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.4.1 Browse a Program>Show Access Results Screen

```
LIBRARY/MODULE/TYPE Y2KLIB  FIND      PROGRAM
0000 NAT2 }F 2.2 0006    Y2KLIB  FIND      MSRJH    MSRJH   TERM < FIND >
0000     ???d‰% PEE?l?S?MVS/ESA TSO           1254127 19970402
0000
-----END CONTROL DATA-----
0010 * FIND ADHOC
0020 *
0030 DEFINE DATA LOCAL
0040 1 FINDING VIEW OF Y2K-FILE < FIND >
0050 * 2 Y2K-KEY
0060 2 LIBRARY-NAME
0070 2 STATUS-LIB-MDL
0080 2 MODULE-NAME
0090 2 SER-NO
0100 2 MODULE-TYPE
0110 2 SAVE-DATE
0120 2 SAVE-USERID
0130 2 C*FIELD-GROUP
0140 2 FIELD-NAME      (15)
0150 2 FIELD-FORMAT    (15)
0160 2 FIELD-LINE-NO   (15)
0170 2 REDEFINE FIELD-LINE-NO
PF13=SELECTION SCREEN  PF1=SKIP TO NEXT PROGRAM 04/27/97
```

Purpose: Displays NATURAL code.

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

- Press <ENTER>. To scroll forward.
- Press PF1. The system skips to next program.
- Press PF13. The system call Selection Screen (Y-MENU).

#### 4.1.8.5 Look Menu - Scan up to 20 Values (LOOK option S)

```
SOURCE PROGRAM SCANNER

LIBRARY Y2KLIB__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION S L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP

PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:36:59:3
```

Purpose: Process scans a program for a pre-defined set of values.

Called from Screen: LOOK

Calls Screen: Scan up to 20 Values - Input Values

Instruction Steps:

- Enter Starting Library (Blank is valid).
- Enter Starting Program (Blank is valid).
- Enter 'S' in Selection Field ('L','P','B','A','S','F','W' and 'H' are valid entries).
- Press PF3. The system displays Main Menu (Y-MENU).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.5.1 Scan up to 20 Values - Input Values

ENTER UP TO 20 VALUES TO SCAN	
DATE	
DT	
MM	
DD	
YY	
	AND SHOW ACCESSES
	20 VALUES
	THE SYSTEM
	D
	Y 117 WEEK 17      12:33:49:2
SHOW HITS ONLY?? Y	

Purpose: Input scan Values

Called from Screen: LOOK

Calls Screen: Scan up to 20 Values - Results Screen

Instruction Steps:

- Input Y in Show Hits ONLY option.
- Press <ENTER>.

#### 4.1.8.5.2 Scan up to 20 Values Results Screen

```

LIB- Y2KLIB   PGM- FIND      " DATE
0110  2 SAVE-DATE           .. 

LIB- Y2KLIB   PGM- FIND      " DATE
0340  /* 'D' (DATE      =FOUND IN FIELD TBL) .. 

LIB- Y2KLIB   PGM- FIND      " DATE
0770 * UPDATE             .. 

LIB- Y2KLIB   PGM- FND      " DATE
0110  2 SAVE-DATE           .. 

LIB- Y2KLIB   PGM- FND      " DATE
0330  /* 'D' (DATE      =FOUND IN FIELD TBL) .. 

LIB- Y2KLIB   PGM- FND      " DATE
0800  SAVE-DATE      := *TIMX .. 

LIB- Y2KLIB   PGM- FND      " DATE
0880  / SAVE-DATE (EM=MM/DD/YY '_HH:II:SS:T) .. 
PF13=SELECTION SCREEN PF1=SKIP TO NEXT PROGRAM 04/27/97

```

Purpose: Results screen displays scan elements and lines of code per program found.

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

- Press <ENTER>. To scroll forward.
- Press PF1. The system skips to next program.
- Press PF13. The system calls Selection Screen (Y-MENU).

#### 4.1.8.6 Look Menu - Find Module in System (LOOK option F)

```
SOURCE PROGRAM SCANNER

LIBRARY Y2KLIB__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION F  L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP

PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:38:33:3
```

Purpose: This process will locate a module in the system when library is not known.

Called from Screen: LOOK

Calls Screen: Find Module in System - Input Module Name Window

Instruction Steps:

- Enter Starting Library (Blank is valid).
- Enter Starting Program (Blank is valid).
- Enter 'F' in Selection Field ('L','P','B','A','S','F','W' and 'H' are valid entries).
- Press PF3. The system displays Main Menu (Y-MENU).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.6.1 Find Module in System - Input Module Name

```
SOURCE PROGRAM SCANNER

LIBRARY Y2KLIB__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION F L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES

ENTER THE MODULE NAME OF FOR THE FIND _TBL_____
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP
```

PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:38:33:3

Purpose: Input module

Called from Screen: LOOK

Calls Screen: Find Module in System Results Screen

Instruction Steps:

- Press <ENTER>. To perform search.
- Press PF13 to Quit and return to Selection Main Menu.

#### 4.1.8.6.2 Find Module in System Results Screen

```
FIND MODULE-- TBL          PROCESS COMPLETED
DATE      TIME   LIBRARY
04/22/1997 09:21 Y2KLIB
```

Purpose: List Date and Time Module was stowed in Library

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

- Press <ENTER>. The system calls Selection Screen (Y-MENU).

```
SOURCE PROGRAM SCANNER
```

```
LIBRARY Y2KLIB__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION W  L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP
```

```
PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:43:14:6
```

#### 4.1.8.7 Look Menu - What File Contains Field (LOOK option W)

Purpose: Identifies all of the Files a data element can be found in.

Called from Screen: LOOK

Calls Screen: What file - Input Element Screen

Instruction Steps:

- Enter Starting Library (Blank is valid).
- Enter Starting Program (Blank is valid).
- Enter 'W' in Selection Field ('L','P','B','A','S','F','W' and 'H' are valid entries).
- Press PF3. The system displays Main Menu (Y-MENU).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.7.1 What File - Input Element Screen

```
SOURCE PROGRAM SCANNER

LIBRARY NEBASE__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION W L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM

ENTER THE FIELD NAME: DATE-INVENTORIED_____
H = HELP

PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:43:14:6
```

Purpose: Input field is provided to search for files containing element

Called from Screen: LOOK

Calls Screen: What File Contains Field Results Screen

Instruction Steps:

Press <ENTER>. To display Results Screen.

Press PF3. System will Quit process and Return to Selection Main Menu (Y\_MENU).

#### 4.1.8.7.2 What File Contains Field Results Screen

```
MORE  
LIBRARY/MODULE/TYPE  
NEMS-CENT-EQUIP  
NEMS-CENT-HISTORY  
NEMS-DAILY-TRANS  
NEMS-EQUIPMENT  
NEMS-HISTORY  
NEMS-MONTH-TRANS  
NEMS-NSN-TEST
```

Purpose: Lists of file that contain field inputted.

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

- Press <ENTER>. The system redisplays Selection Main Menu (Y-MENU).

#### 4.1.8.8 Look Menu - Help (LOOK option H)

```
SOURCE PROGRAM SCANNER

LIBRARY Y2KLIB__ ENTER STARTING LIBRARY
PROGRAM _____ ENTER STARTING PROGRAM
OPTION H L = LIST LIBRARY NAMES
          P = LIST PROGRAM NAMES
          B = BROWSE THROUGH PROGRAM CODE
          A = BROWSE THROUGH PROGRAM CODE AND SHOW ACCESSES
          S = SCAN PROGRAM CODE FOR UP TO 20 VALUES
          F = FIND A MODULE SOMEWHERE IN THE SYSTEM
          W = WHAT FILE(S) CONTAIN A FIELD
          H = HELP
```

```
PF3=QUIT Sunday, 27 April, 1997      DAY 117 WEEK 17      12:50:17:2
```

Purpose: Displays LOOK Menu Help Screen

Called from Screen: LOOK

Calls Screen: Help Screen

Instruction Steps:

- Enter 'H' in Selection Field ('L','P','B','A','S','F','W' and 'H' are valid entries).
- Press PF3. The system displays Main Menu (Y-MENU).
- Press <ENTER>. The system displays the requested screen.

#### 4.1.8.8.1 LOOK HELP Screen

```
B BROWSE THROUGH CODE STARTING WITH LIBRARY AND PROGRAM ENTERED.  
    IF PROGRAM LEFT BLANK, BROWSE STARTS WITH FIRST PROGRAM IN THE  
    LIBRARY.  
A BROWSE THROUGH CODE AND SHOW ACCESSES-SAME AS BROWSE EXCEPT  
    WILL HIGHLIGHT FILE ACCESSES, CALLS AND CALLNATS.  
L LIST ALL LIBRARIES STARTING WITH THE LIBRARY ENTERED. IF YOU  
    WANT TO LIST ALL THE LIBRARIES, BLANK OUT LIBRARY.  
P SAME AS 'L' EXCEPT WILL ALSO LIST PROGRAM NAMES.  
F FIND A MODULE SOMEWHERE IN THE NATURAL SYSTEM FILE.  
S SCAN FOR UP TO 20 VALUES. A SCREEN WILL ALLOW UP TO 20 VALUES  
    FOR SCAN STARTING WITH THE LIB AND PROGRAM ENTERED. ABSOLUTE  
    SCAN WILL TAKE PLACE UNLESS A BLANK IS ENTERED BEFORE THE  
    VALUE ENTERED. YOU CAN CHOOSE DISPLAY OF 'HITS' ONLY OR ALL  
    SOURCE CODE WITH WITH 'HITS' HIGHLITED.  
C COMPARE PROGRAMS IN THE SAME LIBRARY WITH UNLIKE NAMES OR  
    PROGRAMS IN DIFFERENT LIBRARIES WITH THE SAME OR DIFFERENT  
    NAMES. ALSO COMPARE ALL PROGRAMS IN ONE LIBRARY TO THE SAME  
    PROGRAMS IN ANOTHER AND LIST THE PROGRAMS WHICH HAVE UNEQUAL  
    SOURCE CODE.  
V CHECK PROGRAMS FOR REFERENCED BUT UNUSED ADABAS FIELDS. IF  
    THE PROGRAM HAS EXTERNAL LOCALS, THESE ARE ALSO CHECKED.
```

Purpose: Display Help for LOOK Menu

Called from Screen: LOOK

Calls Screen: N/A

Instruction Steps:

Press <ENTER>. The system returns to previous screen.