(NASA-CR-187258) THE JOHNSON SPACE CENTER MANAGEMENT INFORMATION SYSTEMS: USER'S GUIDE TO JSCMIS (NASA) 149 p CSCL 05B
N91-13364
Unclas
G3/82 0308252

The Johnson Space Center Management Information Systems

User's Guide to JSCMIS

Peter C. Bishop
University of Houston-Clear Lake

Lloyd Erickson
NASA Johnson Space Center

February 1990

Cooperative Agreement NCC 9-16
Research Activity IM.9

Research Institute for Computing and Information Systems
University of Houston - Clear Lake

T·E·C·H·N·I·C·A·L R·E·P·O·R·T

The RICIS Concept

The University of Houston-Clear Lake established the Research Institute for Computing and Information systems in 1986 to encourage NASA Johnson Space Center and local industry to actively support research in the computing and information sciences. As part of this endeavor, UH-Clear Lake proposed a partnership with JSC to jointly define and manage an integrated program of research in advanced data processing technology needed for JSC's main missions, including administrative, engineering and science responsibilities. JSC agreed and entered into a three-year cooperative agreement with UH-Clear Lake beginning in May, 1986, to jointly plan and execute such research through RICIS. Additionally, under Cooperative Agreement NCC 9-16, computing and educational facilities are shared by the two institutions to conduct the research.

The mission of RICIS is to conduct, coordinate and disseminate research on computing and information systems among researchers, sponsors and users from UH-Clear Lake, NASA/JSC, and other research organizations. Within UH-Clear Lake, the mission is being implemented through interdisciplinary involvement of faculty and students from each of the four schools: Business, Education, Human Sciences and Humanities, and Natural and Applied Sciences.

Other research organizations are involved via the "gateway" concept. UH-Clear Lake establishes relationships with other universities and research organizations, having common research interests, to provide additional sources of expertise to conduct needed research.

A major role of RICIS is to find the best match of sponsors, researchers and research objectives to advance knowledge in the computing and information sciences. Working jointly with NASA/JSC, RICIS advises on research needs, recommends principals for conducting the research, provides technical and administrative support to coordinate the research, and integrates technical results into the cooperative goals of UH-Clear Lake and NASA/JSC.

The Johnson Space Center Management Information Systems

User's Guide to JSCMIS

Preface

The research was made possible through funds provided by the Research Institute for Computing and Information Systems at the University of Houston-Clear Lake. RICIS is a cooperative research agreement sponsored by the Johnson Space Center. Dr. Peter C. Bishop, Associate Professor and director of the Space Business Research Center at the Univeristy of Houston-Clear Lake, is the principal investigator and project director for the study. Systems development is being carried out by Carol Dickens and Tim Tulloch of TNT Consulting. David Learned, a Graduate Research Assistant, provides beta testing of the system and user support for the study. Kim Trull, Graduate Research Assistant, was instrumental in the publication of this report.

Funding was provided by the Mission Planning and Analysis Division. of the Mission Support Directorate, NASA/JSC. Funding has been administered through the Johnson space Center under Cooperative Agreement NCC 9-16, Research activity IM.9. The NASA Technical Monitor is Lloyd Erickson, from the Data Processing Systems Division, Mission Support Directorate, NASA/JSC.

February 20, 1990

Introduction to JSCMIS User's Guide

The Johnson Space Center Management Information System (JSCMIS) is an interface to computer databases at the NASA Johnson Space Center. The interface allows an authorized user to browse and retrieve information from a variety of sources with minimum effort.

The interface was designed under the direction of Lloyd Erickson, an engineer with the JSC Mission Support Directorate (MSD), Data Processing Systems Division (DPSD). The design was supervised by Peter Bishop, Director of Information Management, a section of the Research Institute for Computing and Information Systems (RICIS) at the University of Houston-Clear Lake. The design was implemented in the NOMAD DBMS language by Carol Dickens and Tim Tulloch of TNT Consulting, Inc.

The User's Guide to JSCMIS is the companion volume to the JSCMIS Research Report which details the objectives, the architecture and implementation of the interface. The User's Guide is a tutorial on how to use the interface and a reference for details about it. After a brief introduction outlining the overall structure of the interface, the guide is structured like an extended JSCMIS session, describing all of the interface features and how to use them. The reader may, therefore, work his way through the book in tutorial fashion or jump to a specific section using the table of contents.

The Guide also contains an appendix containing a page for each of the standard FORMATs currently included in the interface. Users may review these pages to decide which FORMAT most suits their needs.

Additional help is available within the interface itself by pressing PF9 at any point. The DPSD Help Desk at 280-4800 is also prepared to help with more detailed instructions. The interface also contains a NOTE feature so that the user can send a note to the development team at any point. Notes include problem reports, requests for additional features, or any general feedback on the interface and its operation. Since JSCMIS is still a research prototype, the development team welcomes any and all comments.

February 20, 1990

JSCMIS Logic Flow Description

The JSCMIS was designed with two important goals in mind: ease of use for first-time or infrequent users and speed for frequent users. The objective was to allow all users of all types to get to the information they want rapidly and with as little trouble as possible.

The interface uses a window environment to accomplish its objectives. Windows maximize the users control of the operation so that users with different needs can traverse the structure in different ways.

The Logic Flow Diagram on the opposite page shows the principal paths for traversing that structure. It is also a guide to the overall architecture of the interface, describing its major subsystems. The details are described in the text of the User's Guide.

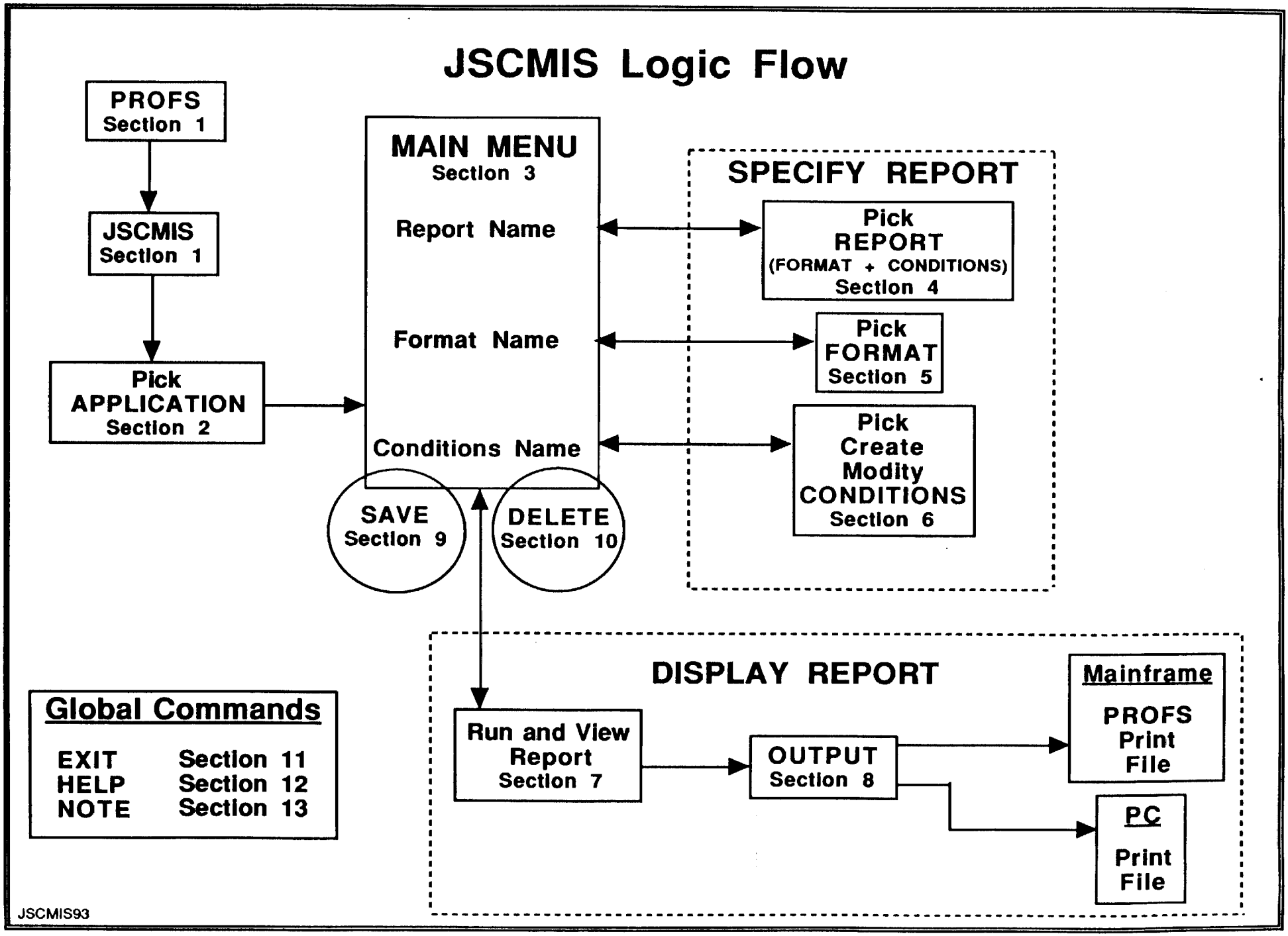
Entry

The user enters JSCMIS through the PROFS menu on CIS-B. PF5 on PROFS Menu 1 brings up the interface (Section 1). The user selects an application from the first JSCMIS window (Section 2). Current applications include personnel (NPPS) and budget (PLANACT) data. A security check is performed at this point to verify that the user has access to the application selected.

Operation

The central point of the interface is the Main Menu (Section 3). Users can branch to any other point in the interface from here. The main menu has fields to specify the three required parameters of a report (the report name, the format name, and the conditions name). The user may select those names from stored lists or, in the case of conditions, build them from scratch (Sections 4-6). Reports and conditions which have been created or modified can also be saved for later retrieval (Section 9). (Creating and modifying formats will be added in a later release.)

Once a REPORT is specified, the user may run the REPORT and view the results on the screen (Section 7). The user may optionally save the REPORT at this point to a number of different media: mainframe PROFS, printer, or file and PC printer or file (Section 8).


JSCMIS Logic Flow
PROFS
Section 1
JSCMIS
Section 1
Pick
APPLICATION
Section 2
MAIN MENU
Section 3
Report Name
Format Name
Conditions Name
SAVE
Section 9
DELETE
Section 10
SPECIFY REPORT
Pick
REPORT
(FORMAT + CONDITIONS)
Section 4
Pick
FORMAT
Section 5
Pick
Create
Modity
CONDITIONS
Section 6
DISPLAY REPORT
Run and View
Report
Section 7
OUTPUT
Section 8
Mainframe
PROFS
Print
File
PC
Print
File
Global Commands
EXIT Section 11
HELP Section 12
NOTE Section 13
JSCMIS93

February 20, 1990

Global Commands

The commands pictured in the lower left are available at any point. PF12 is the "back out" key. It closes the current window without execution and returns to a previous state. PF7 provides a list of valid choices for the fields to be filled in by the users. Thus users always have the option of typing parameters or picking those parameters from lists. PF8 allows the user to exit the interface or PROFS entirely from any point (Section 11).

Of course, the interface contains an on-line HELP feature which provides a menu of topics for further clarification (Section 12). Finally, the interface also contains a NOTE window in which the user can send messages containing questions or comments back to the development team (Section 13).

The table of contents describes the order in which these topics are covered. The user may begin at the beginning and work his/her way through the Guide in tutorial fashion or jump to any specific topic using the table of contents as a guide.

For further information, contact the DPSD Help Desk at 280-4800.

TABLE OF CONTENTS FOR USER GUIDE REFERENCE

SECTION 1

Entering JSCMIS

```
***********     WELCOME  TO     **********
*                  CIS-B
*            RUNNING  -  PROFS            *
*       (PROFESSIONAL OFFICE SYSTEM)     ***
*****                                   *****
***       Center Information Network      *
*         L. B. Johnson Space Center      *
                                          *
*****************************************
        FOR NASA AUTHORIZED USERS ONLY
UNAUTHORIZED USE IS A VIOLATION OF FEDERAL LAW
        Press Enter to Initiate Logon
       Type VMEXIT to Terminate Session
            Help (713) 280-4800

Fill in your USERID and PASSWORD and press ENTER

(Your password will not appear when you type it)

USERID   ===> NUHCDBL

PASSWORD ===>

COMMAND  ===>                                  RUNNING VMSPFHOU
```

Entering JSCMIS Through PROFS

- Access to some databases can now be accomplished by a simplified procedure which uses the PROFS E-mail system as a starting point.

- The above screen illustrates the PROFS logon instructions which are familiar to most JSC personnel.

```
J O H N S O N   S P A C E   C E N T E R   P R O F S   S Y S T E M      A00
Press one of the following PF keys.
PF1  Schedule Appointments                                Time:  10:10 AM
PF2  Review In-Basket                   ********
PF3  Message Center                     * MENU *   1990     JANUARY     1990
PF4  Send A Note/Review Note Log        *  1   *  S   M   T   W   T   F   S
PF5  JSC Mgmt Information System        ********      1   2   3   4   5   6
PF6  Browse Nickname Files                         7   8   9  10  11  12  13
PF7  Bulletin Boards                              14  15  16  17  18  19  20
PF8  LOGOFF                                       21  22  23  24  25  26  27
                                                  28  29  30  31
PF10 On-line Phone Directory                                   Day of Year: 022
PF11 To Main Menu 2
     5664-309 (C) Copyright IBM Corp. 1983, 1987      PF9 Help     PF12 End
   --- FOR HELP CALL 280-4800 ---

==>
```

- The above screen illustrates the PROFS Main Menu 1 from which the user can easily enter the JSCMIS by pressing PF5.

SECTION 2

APPLICATION Areas

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ----------------------------------------------------------Version-1.1--- |
| |=Application Area List=====================================|           |
| | Enter the application in the field below, or position the     |         |
| | cursor on the desired application, and press ENTER.           |         |
| | - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - |         |
| | PERSTAT                                                        |         |
| | PERSON     Personnel Data                            01/02/90  |         |
| | PERSTAT    Personnel Statistics                      09/22/89  |         |
| | PLANACT    Plan vs. Actual Costs                     12/31/89  |         |
| | STATISTICS JSCMIS Interface Usage Statistics         01/12/90  |         |
| |==============================================================|         |
|
|
|
| Function Keys                                                            |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--  |
|                               Note        Logoff Help              PROFS |
|
```

APPLICATION AREA LIST

- When you enter the JSCMIS, the APPLICATION AREA LIST is the first window you will see.
- It contains the APPLICATIONS (databases) which the system can reach. Each APPLICATION is identified by its name, its title and the date it was last updated.
- You may select an APPLICATION:
  - by typing the name on the line provided and pressing ENTER or
  - by using up and down arrow keys to place the cursor on the desired APPLICATION and pressing ENTER.
- The function keys at the bottom of the screen are displayed in a single line which has the same layout as the function keys on most IBM PC keyboards. The purpose of function key display is the result of an effort to maximize the "user friendliness" of PF keys.

PF1 System --	A NOMAD2 system window - DO NOT USE.
PF6 Note --	Opens a window for you to enter comments about JSCMIS which are then sent to the development team

PF8 Logoff -- Leaves JSCMIS and logs off entirely

PF9 Help -- Presents a list of HELP topics on all aspects of the system

PF12 PROFS --Returns to the main menu in PROFS

SECTION 3

MAIN window

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-------------------------------------------------------------Version-1.1---
 Application: PERSTAT
 Enter the application in the f
 cu  =Main==================================
 -   Please fill in the blanks, or press
 PE  the LIST functionkey for entries.
 PE  - - - - - - - - - - - - - - - - - - -
 PE      REPORT name:
 PL
 ST      FORMAT name:
 ___
      CONDITIONS name:
      ====================================


Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

MAIN

- Once you have selected an APPLICATION and pressed ENTER, the MAIN window appears as shown above. The system puts the selected APPLICATION [PERSTAT] in the title window at the top of the screen, and then paints the MAIN window on top of that window.

- The MAIN window is the central point of the system for all operations within a given APPLICATION.

- The MAIN window contains three parameters:

REPORT name:	A REPORT consists of a FORMAT and a set of CONDITIONS. The REPORT name identifies a combination of these two other names for easy recall and retrieval.
FORMAT name:	The FORMAT defines the database fields to be used in a REPORT and the layout for those fields.
CONDITIONS name:	The CONDITIONS defines the database records to be used in the REPORT.

- You may select from a list of pre-defined REPORTs, FORMATs and CONDITIONS or build your own REPORTs and CONDITIONS. (User-defined FORMATs are not available at this time.)

  * Note that the active window (MAIN) has a double border, while the inactive window (APPLICATION) has a single border and is kept in the background.

- You may select a pre-defined REPORT, FORMAT or CONDITIONS

  by typing the name in the space provided or

  by pressing PF7 and selecting it from a list.

- Unique functions keys for the MAIN window include:

PF2 Save --	Saves a REPORT or CONDITIONS which have just been created or modified (The cursor must be on the REPORT or CONDITIONS name.)
PF3 Clear --	Clears all three parameters
PF4 Delete --	Deletes a user-defined REPORT or CONDITIONS which had been saved (The cursor must be on a previously saved REPORT or CONDITIONS name.)
PF5 Modify --	Modifies user-defined CONDITIONS which have been selected or created (The cursor must be on the CONDITIONS name.)
PF7 List --	Opens a window to choose from a list of REPORT, FORMAT or CONDITIONS names
PF12 Retn --	Closes this window and returns to the APPLICATIONS LIST

SECTION 4

Standard REPORTS

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ----------------------------------------------------------Version-1.1--- |
| Application: PERSTAT              |=REPORT Menu (Page 1 of 3)=========== |
| Enter the application in the f    | Position the cursor on the desired   |
| cu  Main                          | value and press ENTER.               |
| -  | Please fill in the blanks,   | - - - - - - - - - - - - - - - - - - - |
| PE | the LIST functionkey for en  | NEW          Build a new report      |
| PE | - - - - - - - - - - - - - - - | AGEBYDIR     Average Age by Organizat |
| PE |     REPORT name:             | AGEBYOCC     Average Age by Occupatio |
| PL |                              | AGEBYYR      Average Age by Fiscal Ye |
| ST |     FORMAT name:             | AGEPROFEMP   No. of Professional Empl |
|    |                              | AVGSALARY    Average Salary by Occupa |
     | CONDITIONS name:             | CNTBYDIR     No. of Employees by Orgn |
     |                              | CNTMERIT     Number of Merit Employee |
                                    | CNTSUPERS    No. of Supervisors,Manag |
                                    | CNTSUPVYRS   Number of Supervisors by |
                                    | COOPBYDIR    No. of Coops On-Board By |
                                    | COOPBYMIN    No. of Coops On-Board, B |
                                    |=========================================|
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn
```

REPORT LIST

- The user placed the cursor on the REPORT name and pressed PF7. The REPORT LIST appears.
- The REPORT LIST contains all of the REPORTs available within the APPLICATION.
- Pre-defined REPORTs are placed on the list by the application administrator and correspond to the FORMATS, which as mentioned earlier, indicate how the data is organized. User-defined REPORTs are placed on the list by the individual user saving a REPORT at the MAIN window. Each set of user-defined REPORTs is unique to that user.
- Each REPORT is identified by its name, its title, and its CONDITIONS.
- The user may select a REPORT by moving the cursor to the desired REPORT and pressing ENTER.
- If the user chooses to select NEW, he will then be asked to type in a name of his own choosing for the report.
  - The user may just type his report name over the word NEW.

- Unique functions keys for this window include:

PF4 Pg -> --	Moves the window to the right for REPORTS wider than 80 columns
PF 5 Pg <- --	Moves the window to the left for REPORTS wider than 80 columns
PF10 Pg Dn --	Moves the window down the list for more options
PF11 Pg Up --	Moves the window up the list for more options
PF12 Prev --	Closes this window and returns to the previous window

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT              |=REPORT Menu   (Page 2 of 2)==========
Enter the application in the f    | Position the cursor on the desired
cu  Main                          | value and press ENTER.
-   Please fill in the blanks,    | - - - - - - - - - - - - - - - - - - -
PE  the LIST functionkey for en   | NEW          Build a new report
PE  - - - - - - - - - - - - - - -  | DEGSORGN     Cnt of emps by degree fi
PE      REPORT name:              | GENCNTOCC    No.Of Employees by Orga
PL                                | GRDBYYEAR    Average Grade By Fiscal
ST      FORMAT name:              | KEYPOSMI     Key Position Mgmt Indica
                                  | MINBYYR      No. of Employees by Fisc
        CONDITIONS name:          | MINCNTDIR    No. of Employees by Orgn
                                  | OCCBYYEAR    No. of Employees by Occu
                                  | OPTRETBYFY   No. of Optional Retireme
                                  | OPTRTBYDIR   No. of Optional Retireme
                                  | PROFEDUC     No. of Employees by Educ
                                  |
                                  |=====================================
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn
```

- This screen example illustrates the page down continuation of the REPORT LIST which appears after pressing PF10.

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ----------------------------------------------  Note                     |
| Application: PERSTAT                            | Report  GENCNTOCC  is  ready |
| Enter the application in the f |                | Press  ENTER  to  view,  or  |
| cu |=Main==============================|        | type  in  any  new  values   |
| -  | Please fill in the blanks, or press |       | to  change...                |
| PE | the LIST functionkey for entries.   |       |                              |
| PE | - - - - - - - - - - - - - - - - - - |
| PE |      REPORT name:  GENCNTOCC
| PL |
| ST |      FORMAT name:  GENCNTOCC
|    |
|    | CONDITIONS name:  ALL
|    |=====================================|

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

MAIN

- The user selected the REPORT GENCNTOCC by placing the cursor on that field and pressing ENTER.
- The system closes the REPORT LIST window and returns to the MAIN window with the parameters for that REPORT filled in.
- A message window appears at the top right of the screen to indicate that the REPORT is ready to be run. The message appears after all three parameters are correctly specified.
- The user may now run the REPORT by pressing ENTER or he/she may modify any of the parameters before running the REPORT.

=JSCMIS Report View (Page 1 of 1)

Count of Employees By Occupation and Gender

	Female		Male		Total	
	No.	%	No.	%	No.	%
WG/Technician	20	9.7	186	90.3	206	5.8
Scientist & Engr.	340	14.7	1,967	85.3	**2,307**	65.3
Prof. Admin.	298	52.3	272	47.7	570	16.1
Clerical	445	98.9	5	1.1	450	12.7
Total	1,103	31.2	2,430	68.8	3,533	100.0

--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
Pg -> Pg <- Note Print Help Pg Dn Pg Up Retn

PERSONNEL STATISTICS

- The user pressed ENTER and the system ran the REPORT.
- The DISPLAY contains a title, a set of categories (job classification and gender), and the numbers and percents for those categories.
- Unique function keys for this window include:

PF4 Pg -> --	Moves the window right for REPORTs wider than 80 columns
PF5 Pg <- --	Moves the window left for REPORTs wider than 80 columns
PF8 Print --	Prints or files the DISPLAY or sends the DISPLAY to a PROFS account with optional comments
PF12 Retn --	Closes the DISPLAY window and returns to the MAIN window

SECTION 5

FORMATS

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT                 =FORMAT Menu (Page 1 of 2)=========
Enter the application in the f       Position the cursor on the desired
cu  Main                             value and press ENTER.
-   Please fill in the blanks,       - - - - - - - - - - - - - - - - - - -
PE  the LIST functionkey for en      AGEBYDIR      Average Age by Organizat
PE  - - - - - - - - - - - - - - -     AGEBYOCC      Average Age by Occupatio
PE      REPORT name:                 AGEBYYR       Average Age by Fiscal Ye
PL                                   AGEPROFEMP    No. of Professional Empl
ST      FORMAT name:                 AVGSALARY     Average Salary by Occupa
                                     CNTBYDIR      No. of Employees by Orgn
        CONDITIONS name:             CNTMERIT      Number of Merit Employee
                                     CNTSUPERS     No. of Supervisors,Manag
                                     CNTSUPVYRS    Number of Supervisors by
                                     COOPBYDIR     No. of Coops On-Board By
                                     COOPBYMIN     No. of Coops On-Board, B
                                     DEGSORGN      Cnt of emps by degree fi
                                     ==========================================
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn
```

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT                 =FORMAT Menu (Page 2 of 2)=========
Enter the application in the f       Position the cursor on the desired
cu  Main                             value and press ENTER.
-   Please fill in the blanks,       - - - - - - - - - - - - - - - - - - -
PE  the LIST functionkey for en      GENCNTOCC     No. Of Employees by Orga
PE  - - - - - - - - - - - - - - -     GRDBYYEAR     Average Grade By Fiscal
PE      REPORT name:                 KEYPOSMI      Key Position Mgmt Indica
PL                                   MINBYYR       No. of Employees by Fisc
ST      FORMAT name:                 MINCNTDIR     No. of Employees by Orgn
                                     OCCBYYEAR     No. of Employees by Occu
        CONDITIONS name:             OPTRETBYFY    No. of Optional Retireme
                                     OPTRTBYDIR    No. of Optional Retireme
                                     PROFEDUC      No. of Employees by Educ
                                     ==========================================
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn
```

FORMAT LIST

- The user accesses the FORMAT list by placing the cursor on the FORMAT name field and pressing PF7.
- Currently, the list is identical to the standard REPORT list because the FORMAT is the distinguishing characteristic of each report. A later release of JSCMIS will allow users to customize and save FORMATs in the same way that they can now customize CONDITIONS.
- Nevertheless, standard FORMATs from this list can still be included in customized REPORTs by combining them with different CONDITIONS.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
 ----------------------------------------------  Note
 Application: PERSTAT
 Enter the application in the f |
 cu |=Main==================================|  Using conditions name of
 -  | Please fill in the blanks, or press |  ALL as default. If a set
 PE | the LIST functionkey for entries.   |  of conditions is desired,
 PE | - - - - - - - - - - - - - - - - - - |  please enter name.
 PE |     REPORT name:                    |  Format GENCNTOCC is ready
 PL |                                     |  to run. Press ENTER to vie
 ST |     FORMAT name:  GENCNTOCC         |  w it...
    |                                     |
    | CONDITIONS name:  ALL               |
    |=====================================|

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

=JSCMIS Report View (Page 1 of 1)

Count of Employees By Occupation and Gender

	Female		Male		Total	
	No.	%	No.	%	No.	%
WG/Technician	20	9.7	186	90.3	206	5.8
Scientist & Engr.	340	14.7	1,967	85.3	2,307	65.3
Prof. Admin.	298	52.3	272	47.7	570	16.1
Clerical	445	98.9	5	1.1	450	12.7
Total	1,103	31.2	2,430	68.8	3,533	100.0

```
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Pg -> Pg <- Note        Print Help  Pg Dn Pg Up Retn
```

VIEWING A FORMAT

- The easiest way to get a complete description of a standard FORMAT is to bring the FORMAT name into the Main Menu and run the report. The standard FORMATs (with CONDITIONS ALL) are displayed rapidly.

- The FORMATs are also reproduced in the back of the User's Guide for reference.

SECTION 6

Building CONDITIONS

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
--------------------------------------------  Note
 Application: PERSTAT                          Report GENCNTOCC is ready.
 Enter the application in the f                Press ENTER to view, or
 cu =Main=================================     type in any new values
 -   Please fill in the blanks, or press      to change...
 PE  the LIST functionkey for entries.
 PE  - - - - - - - - - - - - - - - - - -
 PE      REPORT name:  GENCNTOCC
 PL
 ST      FORMAT name:  GENCNTOCC

     CONDITIONS name:  ALL
     =====================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

- The user pressed PF12 at the DISPLAY window.
- The system closed the DISPLAY and returned to the MAIN window.
- Having seen the DISPLAY for all records in the database (i.e., all employees at the Center), the user decides to use some other CONDITIONS for comparison.
- A **CONDITIONS** specification is a logical or arithmetic expression with three parameters:

  Condition: FIELD OPERATOR VALUE(s)

  Any record from the database will be included in the REPORT if and only if the expression is true for that record.
- The following example demonstrates the case where a user wants only people who are or will be 40 years old in 1989 included in the REPORT. Since people who are 40 in 1989 were born in 1949, the OPERATOR needs to construct the following expression.

Condition: Birth date / is less than or equal to / Dec 31, 1949.

This expression will ultimately be represented as:

Condition: BIRTH LE 12/31/49

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
|-----------------------------------------------------------Version-1.1--- |
| Application: PERSTAT            |=CONDITIONS Menu   (Page 1 of 1)=======|
| Enter the application in the f  | Position the cursor on the desired    |
| cu  Main                        | value and press ENTER.                |
| -   Please fill in the blanks,  | - - - - - - - - - - - - - - - - - - - |
| PE  the LIST functionkey for en | NEW     Build a new conditions s      |
| PE  - - - - - - - - - - - - - - | ALL     Include ALL records           |
| PE      REPORT name:  GENCNTOCC |                                       |
| PL                              |                                       |
| ST      FORMAT name:  GENCNTOCC |                                       |
|                                 |                                       |
|         CONDITIONS name:        |                                       |
|                                 |                                       |
|                                 |=======================================|
| Function Keys                                                           |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12-- |
|                   Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn  |
|_________________________________________________________________________|
```

CONDITIONS LIST

- The user placed the cursor on the CONDITIONS name and erased ALL from the blank before pressing PF7. The CONDITIONS LIST then appears.
- The CONDITIONS LIST contains all of the systems-defined and user-defined CONDITIONS available within the APPLICATION.
- Each set of CONDITIONS is identified by its name and its title.
- The user may select a set of CONDITIONS by moving the cursor to the desired CONDITIONS name and pressing ENTER.
- Selecting NEW allows the user to build a new set of CONDITIONS from scratch.

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ----------------------------------------------  Note                     |
| Application: PERSTAT                            |Please enter a name for |
| Enter the application in the f |                |this set of conditions. |
| cu |=Main==================================|     |                        |
| -  | Please fill in the blanks, or press |
| PE | the LIST functionkey for entries.   |
| PE | - - - - - - - - - - - - - - - - - - |
| PE |     REPORT name:  GENCNTOCC         |
| PL |                                     |
| ST |     FORMAT name:  GENCNTOCC         |
|    |                                     |
|    | CONDITIONS name:  NEW               |
|    |=====================================|
|
|
|
|
|
|
| Function Keys
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
|       Cancel                  Note        Exit   Help             Retn
```

- The user selected NEW, and the window appeared asking the user to provide a name for the CONDITIONS SET.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
Application: PERSTAT                                  Note
Enter the application in the f                        Report GENCNTOCC is ready.
cu  =Main=================================            Press ENTER to view, or
-    Please fill in the blanks, or press              type in any new values
PE   the LIST functionkey for entries.                to change...
PE   - - - - - - - - - - - - - - - - - -
PE       REPORT name:  GENCNTOCC
PL
ST       FORMAT name:  GENCNTOCC

     CONDITIONS name:  SAMSET
     ======================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

- The user then replaced the word NEW with the created name of SAMSET by typing over it.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
 ------------------------------------------  Note
 Application: PERSTAT                        SAMSET is a new set of
 Enter the application in the f              CONDITIONS. Building the
 cu  Main                                    criteria now.
 -   Please fill in the blanks, or press
 PE  th  =Building CONDITIONS Set SAMSET====
 PE  -    Please enter a field and operator
 PE       name, or press LIST functionkey
 PL       for a list of valid names.
 ST       - - - - - - - - - - - - - - - - -
          Field name:
     CO   Operator  :
          ========================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note  List  Exit   Help             Retn
```

BUILDING CONDITIONS

- When the user presses the ENTER key the BUILDING CONDITIONS window appears.
- The cursor will automatically appear in the FIELD NAME blank.

FIELD NAME

- At this point the user may select the FIELD NAME by one of three different methods:

(1) by typing in the FIELD NAME in its proper abbreviated form

or

(2) by pressing PF7 to bring up the FIELD NAMES LIST which lists all Fields for this Application

or

(3) by typing in a portion of the FIELD NAME and then pressing PF7.

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ------------------------------------------ __Note_____________________
| __Application: PERSTAT_____________        | Please enter an operator.  |
| | Enter the application in the f |         |____________________________|
| | cu __Main_____________________________
| | -  | Please fill in the blanks, or press |
| | PE | th |=Building CONDITIONS Set SAMSET=====|
| | PE | -  |  Please enter a field and operator |
| | PE |    |  name, or press LIST functionkey   |
| | PL |    |  for a list of valid names.        |
| | ST |    |  - - - - - - - - - - - - - - - - - |
| |___ |    |  Field name:  BIRTH                |
|      | CO |  Operator  :                       |
|      |___ |=====================================|
|
|
|
| Function Keys
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
|                               Note  List  Exit   Help             Retn
|_____________________________________________________________________________|
```

Method #1 - Selection by "Type-in"

- This screen example was produced by typing in the FIELD name because the user knew both the FIELD name as well as its standard title which should go into that FIELD name blank.

- This window contains two of the parameters of the expression:

  FIELD name -- The FIELD in the database to be used in selecting records for the REPORT;

  OPERATOR -- The logical or arithmetic OPERATOR which specifies which items from that FIELD qualify the record for the REPORT.

- Again, the user may type in FIELD and OPERATORs parameters or select them from a list by placing the cursor on the proper parameter and pressing PF7.

- After the FIELD and OPERATOR parameters are specified, the user will be allowed to specify the VALUEs for the expression. (This choice is delayed because the number of VALUEs allowed depends on the type of OPERATOR selected.)

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ---------------------------------------------------------Version-1.1--- |
| Application: PERSTAT      |=Field Names List              Line 1 of 85===|
| Enter the application in  | Choose the FIELD by placing the cursor next |
| cu  Main                  | to your selection and pressing ENTER.       |
| -   Please fill in the    | - - - - - - - - - - - - - - - - - - - - - - |
| PE  th  Building CONDI    | AGE              Age                        |
| PE  -    Please enter     | ANUIND           Anuitant Indicator         |
| PE       name, or pres    | APDT             APDT                       |
| PL       for a list of    | BIRTH            Birth Date                 |
| ST       - - - - - - - -  | BIRTH_MO         Birth Month                |
|          Field name:      | BRANCH           Branch                     |
|     CO   Operator  :      | CGD              Date of last Promotion     |
|                           | DAY_BORN         Day Born                   |
|                           | DIR              Directorate                |
|                           | DIVISION         Division                   |
|                           | DOS              Date of Separation Action  |
|                           | DRET             DRET                       |
|                           | DTYSTS           DTYSTS                     |
| Function Keys             |==========================================|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--  |
|                         Descr Note        Exit   Help Pg Dn Pg Up Retn  |
```

Method #2 - Selection from the FIELD NAME LIST

- The user placed the cursor on the FIELD parameter and pressed PF7.
- A list of the FIELDs from the database appears. The window contains the FIELD name and the title.
- The user may select a FIELD by moving the cursor to the desired FIELD name and pressing ENTER.
- Unique function keys for this window include:

  PF5 Description -- Opens a window describing the FIELD where the cursor is placed.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
                                                  Note
 Application: PERSTAT                             Please enter an operator.
 Enter the application in the f
 cu  Main
 -   Please fill in the blanks, or press
 PE  th =Building CONDITIONS Set SAMSET=====
 PE  -   Please enter a field and operator
 PE      name, or press LIST functionkey
 PL      for a list of valid names.
 ST      - - - - - - - - - - - - - - - -
         Field name:  BIRTH
     CO  Operator  :
         ==================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note  List  Exit   Help             Retn
```

- The user placed the cursor on the FIELD name BIRTH and pressed ENTER.
- The system closed the FIELD LIST and entered BIRTH as the FIELD parameter.
- Now the user selects the OPERATOR by placing the cursor on the OPERATOR parameter and pressing PF7 or by typing the OPERATOR.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT      |=Field Names List              Line 1 of 3=====|
Enter the application in  | Choose the FIELD by placing the cursor next |
cu  Main                  | to your selection and pressing ENTER.       |
-   Please fill in the    | - - - - - - - - - - - - - - - - - - - - - - |
PE  th  Building CONDI    | BIRTH            Birth Date                 |
PE  -    Please enter     | BIRTH_MO         Birth Month                |
PE       name, or pres    | BRANCH           Branch                     |
PL       for a list of    |=============================================|
ST       - - - - - - - - - - - - - - - - - -|
         Field name:  B*                    |
     CO  Operator  :                        |
                                            |

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                         Descr Note        Exit   Help Pg Dn Pg Up Retn
```

Method #3 - Selection by the "Wildcard" Method

- This screen example illustrates the method of selecting the FIELD name by creating a list of only those FIELD names that begin with a certain letter.

  -This method is helpful for those instances in which the user may have forgotten the FIELD NAME (or its proper title) but guess some of the letters in the name.

- Here, the user has typed B* in the FIELD NAME blank and pressed PF7 to bring up a list of only those FIELD NAMEs which begin with "B."

```
__JSCMIS_____________________________________________________________________
|        Johnson  Space  Center   Management  Information  System            |
| ----------------------------------------------------------Version-1.1----  |
| __Application: PERSTAT____ __Field Name |= Document  for  Field:  BIRTH==|  |
| | Enter the application in | Choose the |  Date of Birth                  |  |
| | cu __Main_______________ | to your se |================================|  |
| | -  | Please fill in the  | - - - - - - - - - - - - - - - - - - - - - -  |
| | PE | th __Building CONDI | BIRTH           Birth Date                  |
| | PE | -  |  Please enter  | BIRTH_MO        Birth Month                 |
| | PE |    |  name, or pres | BRANCH          Branch                      |
| | PL |    |  for a list of |_____________________________________________|
| | ST |    |  - - - - - - - - - - - - - - - - - |                            |
| |____|    |  Field name:  B*                  |                            |
|         | CO |  Operator  :                   |                            |
|         |___ |___________________________________|                            |
|                                                                              |
|                                                                              |
|                                                                              |
|                                                                              |
| Function Keys                                                                |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--      |
|                               Note        Exit   Help              Retn      |
|______________________________________________________________________________|
```

DESCRIPTION OF FIELD: BIRTH

- The user placed the cursor on the FIELD name BIRTH and pressed PF5.
- A description of that FIELD appears.
- The user closes that window with ENTER or PF12

```
JSCMIS
|          Johnson  Space  Center   Management  Information  System          |
| ---------------------------------------------------------------Version-1.1--- |
| Application: PERSTAT                |=OPERATORS Menu (Page 1 of 1)===== |
| Enter the application in the f |  Position the cursor on the desired |
| cu Main                            |  value and press ENTER.             |
| -  | Please fill in the blanks,    |  - - - - - - - - - - - - - - - - - - |
| PE | th Building CONDITIONS Se     |  AMONG      Among a set of values   |
| PE | -  | Please enter a field     |  BETWEEN    Between two values      |
| PE |    | name, or press LIST f   |  BTWN       Between two values      |
| PL |    | for a list of valid n    |  CONTAINS   Contains a given set of va |
| ST |    | - - - - - - - - - - - -  |  EQ         Equal to                |
|    |    | Field name:  BIRTH       |  GE         Greater Than or Equal to |
|    | CO | Operator  :              |  GT         Greater Than            |
|    |    |                          |  LE         Less Than or Equal to   |
|                                    |  LT         Less Than               |
|                                    |  NE         Not equal to            |
|                                    |  NG         Not Greater Than        |
|                                    |  NL         Not Less Than           |
|                                    |=====================================|
| Function Keys                                                            |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--  |
|                   Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn   |
```

OPERATOR LIST

- The cursor automatically appeared on the OPERATOR parameter and the user pressed PF7.
- The OPERATOR LIST appears. The list contains the legal OPERATORs and their representations. Some OPERATORs are represented in more than one manner.
- Most of the OPERATORs are standard Boolean or algebraic symbols. OPERATORs unique to the NOMAD2 environment include:

  BETWEEN -- Specifies a range of VALUEs between a minimum and a maximum

  AMONG -- Specifies more than one VALUE from a set of VALUEs

  CONTAINS -- Specifies a string within an alpha text field

- The user may select an OPERATOR by moving the cursor to the desired OPERATOR name and pressing ENTER.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
 Application: PERSTAT
 Enter the application in the f
 cu  Main
 -   Please fill in the blanks, or press
 PE  th =Conditions=========================================
 PE  -   Please provide a value for this CONDITION, or
 PE      press the LIST functionkey for a list of entries.
 PL      - - - - - - - - - - - - - - - - - - - - - - - - -
 ST      Field name:  BIRTH
         Operator  :  LE
     CO  Value     :
             ==================================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note  List  Exit   Help             Retn
```

CONDITIONS

- The user selected the LE (less than or equal) OPERATOR by placing the cursor on LE and pressing ENTER.
- The system closed the OPERATOR LIST window and entered LE as the OPERATOR parameter.
- Since the OPERATOR is now specified, the CONDITIONS window now contains all three parameters of the expression, including the VALUE. The LE OPERATOR takes one VALUE so there is only one parameter available.
- The user specifies the VALUE by placing the cursor on the VALUE parameter and typing the VALUE or pressing PF7.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT
Enter the application in the f
cu  Main
-   Please fill in the blanks, or press
PE  th =Conditions=========================================
PE  -   Please provide a value for this CONDITION, or
PE      press the LIST functionkey for a list of entries.
PL      - - - - - - - - - - - - - - - - - - - - - - - - -
ST      Field name:  BIRTH
        Operator   : LE
    CO  Value      : 12/31/49
            ==============================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note  List  Exit   Help             Retn
```

CONDITIONS

- In this particular case, the user decided not to select one of the listed values because he merely wanted to list all personnel born past a certain date, i.e. 12/31/49. And incidentally, that particular date was not listed because it happened not to be any one's birthday.

  - (However, the user could have accomplished the same purpose by choosing the last birth date listed before 12/31/49 and entering it in the value parameter.)

- The user then types in the desired date (12/31/49) and pressed ENTER.

- The system closed the VALUE LIST window and entered 12/31/49 as the VALUE parameter.

- Now that all three parameters for the expression are specified, the OPERATOR may accept the expression by pressing ENTER or modify any of the parameters by placing the cursor on that parameter and pressing PF5.

```
JSCMIS
|      Johnson  Space  Center   Management  Information  System          |
| ----------------------------------------------------------Version-1.1--|
| Application: PERSTAT
| | Enter the application in the f |
| | cu  Main
| | -  | Please fill in the blanks, or press |
| | PE | th |=Conditions build action menu================|
| | PE | -  | Any more CONDITIONS? Position the cursor    |
| | PE |    | on the desired action and press ENTER.      |
| | PL |    | - - - - - - - - - - - - - - - - - - - - -   |
| | ST |    |   No more conditions to specify             |
| |____|    |   AND another condition to previous one(s)   |
|         | CO |   OR another condition to previous one(s)    |
|         |____|=============================================|
|
|
|
|                                                  Include all records where
|                                                  | A. BIRTH LE 12/31/49
| Function Keys                                    |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
|                         Alter Note        Exit   Help             Retn
|
```

ANY MORE CONDITIONS?

- This window appeared after the VALUE name blank was completed by entering 12/31/49 and pressing the ENTER key.
- Notice that the window in the bottom right hand corner displays the CONDITIONS which have just been created.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
 ---------------------------------------------  Note
 Application: PERSTAT                          | Report GENCNTOCC is ready |
| Enter the application in the f |             | Press ENTER to view the   |
| cu |=Main==============================|      | report, or the SAVE       |
| -  | Please fill in the blanks, or press |     | function key to save it.  |
| PE | the LIST functionkey for entries.   |     |___________________________|
| PE | - - - - - - - - - - - - - - - - - - |
| PE |     REPORT name:  GENCNTOCC         |
| PL |                                     |
| ST |     FORMAT name:  GENCNTOCC         |
|    |                                     |
     | CONDITIONS name:  SAMSET            |
     |=====================================|

                                            Include all records where
                                           | A. BIRTH LE 12/31/49      |
Function Keys                              |___________________________|
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

MAIN

- The user accepted the CONDITIONS by pressing ENTER.
- The system closed the CONDITIONS window and returns to the MAIN window. It also paints two messages.

  One at the bottom right lists the CONDITIONS currently in force.

  Another at the top right indicates that the REPORT is ready to run with the new CONDITIONS. It also reminds the user that he/she may want to save either the new CONDITIONS or the whole REPORT with the new CONDITIONS. The REPORT or the CONDITIONS are saved by placing the cursor on either one and pressing PF2.

- The user may now run the REPORT by pressing ENTER.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
                                                  Note
 Application: PERSTAT                             Processing your report.
 Enter the application in the f                   Please wait...
 cu |=Main==================================|
 -  | Please fill in the blanks, or press |
 PE | the LIST functionkey for entries.   |
 PE | - - - - - - - - - - - - - - - - - - |
 PE |     REPORT name:  GENCNTOCC         |
 PL |                                     |
 ST |     FORMAT name:  GENCNTOCC         |
    |                                     |
    | CONDITIONS name:  SAMSET            |
    |=====================================|

                                                  Include all records where
                                                  A. BIRTH LE 12/31/49
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                             Note        Exit   Help             Retn
```

- This screen illustrates the note window which appears after the user presses ENTER to run the REPORT.

=JSCMIS Report View (Page 1 of 1)

Count of Employees By Occupation and Gender

	Female		Male		Total	
	No.	%	No.	%	No.	%
WG/Technician	13	8.7	137	91.3	150	7.2
Scientist & Engr.	51	3.9	1,251	96.1	**1,302**	62.7
Prof. Admin.	168	46.7	192	53.3	360	17.3
Clerical	262	99.2	2	0.8	264	12.7
Total	494	23.8	1,582	76.2	2,076	100.0

--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
Pg -> Pg <- Note Print Help Pg Dn Pg Up Retn

PERSONNEL STATISTICS

- The user displays the REPORT by pressing ENTER at the MAIN window (when the READY note appears) with the new set of CONDITIONS in force.
- The FORMAT for the REPORT stays the same, but the data has changed. This REPORT includes only those people at or over 40 years old in 1989 (i.e., born before 12/31/49)
- Compare this REPORT with the REPORT on page 5-5 which contains all personnel at JSC. Notice that this DISPLAY counts 1,302 scientists and engineers compared to 2,307 previously.
- The user may direct the REPORT to various output devices by pressing PF8 (see Section 8) or simply return to the MAIN window by pressing ENTER.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
                                                  Note
  Application: PERSTAT                            Report GENCNTOCC is ready.
  Enter the application in the f                  Press ENTER to view the
  cu =Main                                        report, or the SAVE
  -   Please fill in the blanks, or press         functionkey to save it.
  PE  the LIST functionkey for entries.
  PE  - - - - - - - - - - - - - - - - - -
  PE      REPORT name:  GENCNTOCC
  PL
  ST      FORMAT name:  GENCNTOCC

      CONDITIONS name:  SAMSET

                                                  Include all records where
                                                  A. BIRTH LE 12/31/49
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

MAIN

- The user returned to the MAIN window by pressing ENTER at the DISPLAY window.
- At this point, the user wants to add another condition to further specify the records to be included in the REPORT. In this case, the user wants only people in pay grades 11, 13, 15 to be included.
- He/she therefore modifies the CONDITIONS by moving the cursor to the CONDITIONS parameter and pressing PF5.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-------------------------------------------------------------Version-1.1---
 Application: PERSTAT
 Enter the application in the f
 cu  Main
 -   Please fill in the blanks, or press
 PE  th =CONDITIONS Modification Menu====
 PE  -   Position the cursor on the action
 PE      you wish to take and press ENTER.
 PL      - - - - - - - - - - - - - - - - -
 ST      ADD a condition
         CHANGE(/REPLACE) a condition
     CO  DELETE a condition
         ==================================

                                          Include all records where
                                          A. BIRTH LE 12/31/49
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note        Exit   Help             Retn
```

CONDITIONS MODIFICATION MENU

- The user moved the cursor to the CONDITIONS parameter and pressed PF5 to modify the CONDITIONS.
- This window contains the possible modifications

  ADD -- Add another condition to the set

  CHANGE -- Change a condition already in the set (This option actually replaces the old condition with a new one.)

  DELETE -- Delete a condition from the set

- The user places the cursor on the desired action and presses ENTER.

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ---------------------------------------------------------Version-1.1---|
| Application: PERSTAT                                                    |
| | Enter the application in the f |                                    |
| | cu  Main                                                              |
| | -  | Please fill in the blanks, or press |                             |
| | PE | th  Adding a conditions line                                       |
| | PE | -  | Position the cursor on the action    |                             |
| | PE |    | yo |=Logical connectors==============|                            |
| | PL |    | -  | Position cursor by the desired      |                             |
| | ST |    |  A | logical connector and press ENTER.  |                             |
| |___ |    |  C | - - - - - - - - - - - - - - - - -   |                             |
|      | CO |  D |   AND  new  condition                |                             |
|      |___ |___ |   OR  new condition                  |                             |
|                |=====================================|                             |
|                                                                                    |
|                                                                                    |
|                                                   Include all records where        |
|                                                  | A. BIRTH LE 12/31/49          |
| Function Keys                                    |_______________________________|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--            |
|                                Note        Exit   Help             Retn            |
|____________________________________________________________________________________|
```

- This screen appeared after the user placed the cursor on the "ADD a condition" selection and pressed ENTER while in the previously illustrated CONDITIONS MODIFICATION MENU.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT
Enter the application in the f
cu  Main
-   Please fill in the blanks, or press
PE  th  Adding a conditions line
PE  -   Position the cursor on the action
PE      =Building CONDITIONS Set SAMSET=====
PL       Please enter a field and operator
ST       name, or press LIST functionkey
         for a list of valid names.
    CO   - - - - - - - - - - - - - - - -
         Field name:  G*
         Operator  :
                                          Include all records where
                                          A. BIRTH LE 12/31/49
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note  List  Exit   Help             Retn
```

Building an "Added" Condition

- The user placed the cursor on "ADD a CONDITION" and pressed Enter at the CONDITIONS Modification Menu to ADD a new CONDITION.
- The user has forgotten the exact FIELD name for the GRADE, but does remember that it does begin with "G". Therefore, he wants to search for all the FIELD names beginning with "G".
- The user enters "G*" for the FIELD name and presses PF7.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
                                                Note
 Application: PERSTAT                           Only one field-match found
 Enter the application in the f                 ...
 cu  Main                                       Please enter an operator.
 -   Please fill in the blanks, or press
 PE  th  Adding a conditions line
 PE  -   Position the cursor on the action
 PE      =Building CONDITIONS Set SAMSET=====
 PL       Please enter a field and operator
 ST       name, or press LIST functionkey
          for a list of valid names.
     CO   - - - - - - - - - - - - - - - - -
          Field name:  GRD
          Operator  :
          ==================================
                                                Include all records where
                                                A. BIRTH LE 12/31/49
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note  List  Exit   Help             Retn
```

FIELD Name

- The user pressed PF7 with "G*" in the FIELD name.
- Since GRADE is the only FIELD name which begins with "G", a FIELD list will not appear and GRD will automatically appear in the FIELD name position.
- It should be noted, however, that if there were more than one FIELD name that began with "G", the user would have gotten a list of all of them and would have retrieved the FIELD name GRADE by positioning the cursor on GRD and pressing ENTER. (See page 6-10)

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ----------------------------------------------------------Version-1.1---- |
| Application: PERSTAT
| | Enter the application in the f |
| | cu  Main
| | -   | Please fill in the blanks, or press |
| | PE  | th |=Building CONDITIONS Set SAMSET=====|
| | PE  | -  |  Please enter a field and operator |
| | PE  |    |  name, or press LIST functionkey   |
| | PL  |    |  for a list of valid names.        |
| | ST  |    |  - - - - - - - - - - - - - - - - - |
| |     |    |  Field name:  GRD                  |
|       | CO |  Operator  :  AMONG                |
|       |    |=====================================|
|
|                                                  Include all records where
|                                                 | A. BIRTH LE 12/31/49
| Function Keys                                   |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
|                                 Note  List  Exit   Help             Retn
```

Building CONDITIONS Set SAMSET

- The user types "AMONG" as the OPERATOR because he/she has a list of VALUES (i.e., 11 13 15) rather than just one VALUE or a continuous range of VALUES. It should be noted that, rather than typing in "AMONG", the user could have pressed PF7 which would have brought up a window with a complete selection of OPERATORs from which "AMONG" could be selected by placing the cursor on it and pressing ENTER.

- When the user presses ENTER to establish the OPERATOR, the VALUES parameter will automatically be brought up.

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ------------------------------------------ Note                          |
| Application: PERSTAT                        | Please enter the desired |
| Enter the application in the f |            | values.                  |
| cu  Main                                    |                          |
| -  | Please fill in the blanks, or press |
| PE | th  Adding a conditions line
| PE | -  | Position the cursor on the action    |
| PE |    |  |=Conditions==================================|
| PL |    |  | Please enter the desired value(s), or press |
| ST |    |  | the LIST functionkey for a list.            |
|    |    |  | - - - - - - - - - - - - - - - - - - - - - - |
|    | CO |  | Field name:  GRD                            |
|    |    |  | Operator  :  AMONG                          |
|              | Value(s)  :  --    --    --    --          |
|              |              --    --    --    --          |
|              |              --    --    --    --          |
|              |              --    --    --    --          | cords where
|              |=============================================| /31/49
| Function Keys                                |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
|                               Note  List  Exit   Help              Retn
```

CONDITIONS

- The user pressed ENTER on the Building CONDITIONS window with "AMONG" as the OPERATOR.
- The VALUES parameter appears with multiple spaces {12} for a list of VALUES.
- Since the OPERATOR is not sure how that VALUE is coded, he/she presses PF7 with the cursor on the VALUES parameter to bring up the VALUES list for that FIELD.

```
|=JSCMIS==========================================================================|
|         Johnson  Space  Center   Management  Information  System               |
| ---------------------------------------------------------------Version-1.1--- |
| __Application: PERSTAT_____________ |=VALUES Menu (Page 1 of 2)==========|
| | Enter the application in the f | | Position the cursor on the desired    |
| | cu __Main_____________________ | | value and press ENTER.                |
| | -  | Please fill in the blanks, | | - - - - - - - - - - - - - - - - - -   |
| | PE | th __Adding a conditions li | |  0                                    |
| | PE | -  | Position the cursor on | |  1                                    |
| | PE |    |  __Conditions________ | |  2                                    |
| | PL |    |  | Please enter the de | |  3                                    |
| | ST |    |  | the LIST functionke | |  4                                    |
| |____|    |  | - - - - - - - - - - | |  5                                    |
|      | CO |  | Field name:  GRD    | |  6                                    |
|      |____|_ | Operator   :  AMONG | |  7                                    |
|              | Value(s)   :  {     | |  8                                    |
|              |                     | |  9                                    |
|              |                     | | 10                                    |
|              |                     | | 11                                    |
|              |_____________________| |=======================================|
| Function Keys                                   |_____________________________|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--        |
|                   Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn         |
|==================================================================================|
```

List for FIELD "Grade"

- The user pressed PF7 with the cursor on the VALUES parameter.
- All the unique VALUES for the GRD FIELD are displayed.
- The user selects the desired grades by placing the cursor on them and pressing the enter key one at a time (i.e. 11, 13, 15.)
- The user returns to the CONDITIONS window by pressing PF12. It should be noted that if the user attempts to return to the conditions window by the otherwise normal procedure of pressing the ENTER key, he will not return to the CONDITIONS window unless he has actually filled all twelve VALUES spaces with data. If he has filled in less than all twelve spaces, pressing the ENTER key will merely enter or re-enter the selection that the cursor happens to be on at the time. But if he accidently re-enters a particular selection, the report will not be affected by the duplicate entry. That is, if he happens to enter grade 15 twice (or more), the report will look exactly the same as if he entered grade 15 only once. Naturally, if the user accidently enters a selection that is not the duplicate of a previous VALUES selection (grade 17 for instance) the report will be erroneously altered and the user will need to change the CONDITION.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
                                                          Version-1.1
 Application: PERSTAT
 Enter the application in the f
 cu  Main
 -   Please fill in the blanks, or press
 PE  th =Conditions build action menu===============
 PE  -  Any more CONDITIONS? Position the cursor
 PE     on the desired action and press ENTER.
 PL     - - - - - - - - - - - - - - - - - - - - -
 ST       No more conditions to specify
          AND another condition to previous one(s)
     CO   OR another condition to previous one(s)
     ===========================================

                                        Include all records where
                                        A. BIRTH LE 12/31/49
                                        AND
                                        B. GRD AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                        Alter Note        Exit   Help             Retn
```

CONDITIONS Modification Menu

- After verifying that the FIELD, OPERATOR, and VALUES are correct, the user presses ENTER once more to add the new CONDITION to the set of CONDITIONS.
- At this point the CONDITIONS BUILD ACTIONS Menu appears.
- Since the user does not wish to make any more changes to the CONDITIONS, he presses ENTER once more to return to the MAIN Menu.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT
Enter the application in the f
cu  Main
-   Please fill in the blanks, or press
PE  th =Conditions build action menu===============
PE  -  Any more CONDITIONS? Position the cursor
PE     on the desired action and press ENTER.
PL     - - - - - - - - - - - - - - - - - - - - -
ST       No more conditions to specify
         AND another condition to previous one(s)
    CO   OR another condition to previous one(s)
    ==========================================

                                        Include all records where
                                        A. BIRTH LE 12/31/49
                                        AND
                                        B. GRD AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                        Alter Note        Exit   Help             Retn
```

CONDITIONS Modification Menu

- After verifying that the FIELD, OPERATOR, and VALUES are correct, the user presses ENTER once more to add the new CONDITION to the set of CONDITIONS.
- At this point the CONDITIONS BUILD ACTIONS Menu appears.
- Since the user does not wish to make any more changes to the CONDITIONS, he presses ENTER once more to return to the MAIN Menu.

SECTION 7

Viewing a REPORT

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
                                                  Note
 Application: PERSTAT                             Report GENCNTOCC is ready.
 Enter the application in the f                   Press ENTER to view the
 cu =Main                                         report, or the SAVE
 -  Please fill in the blanks, or press           functionkey to save it.
 PE the LIST functionkey for entries.
 PE - - - - - - - - - - - - - - - - -
 PE     REPORT name:  GENCNTOCC
 PL
 ST     FORMAT name:  GENCNTOCC
        CONDITIONS name:  SAMSET
                                                  Include all records where
                                                  A. BIRTH LE 12/31/49
                                                  AND
                                                  B. GRD AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

MAIN

- The user pressed ENTER with the cursor on "No more changes" in the CONDITIONS Modification Menu.
- The new CONDITION appears as CONDITION B at the lower right of the screen
- The REPORT is now ready to run with the new set of CONDITIONS.
- The user presses ENTER once more to display the REPORT.

=JSCMIS Report View (Page 1 of 1)

Count of Employees By Occupation and Gender

	Female		Male		Total	
	No.	%	No.	%	No.	%
WG/Technician	8	11.9	59	88.1	67	6.7
Scientist & Engr.	25	3.3	734	96.7	**759**	75.4
Prof. Admin.	74	41.1	106	58.9	180	17.9
Total	107	10.6	899	89.4	1,006	100.0

--1-- --2-- --3-- --4-- --5-- --6-- --7-- --**8**-- --9-- -10-- -11-- -12--
Pg -> Pg <- Note **Print** Help Pg Dn Pg Up Retn

Personnel Statistics

- The user ran the REPORT with the new set of CONDITIONS.
- The REPORT shows that only 759 scientists and engineers fit the new set of CONDITIONS (Born before 1950 with Grades 11, 13, or 15) compared to the 2,307 which appeared with CONDITIONS = ALL or the 1,302 which appeared for the first CONDITION only.
- Since the user wishes to save this display on an output device, he presses PF8.

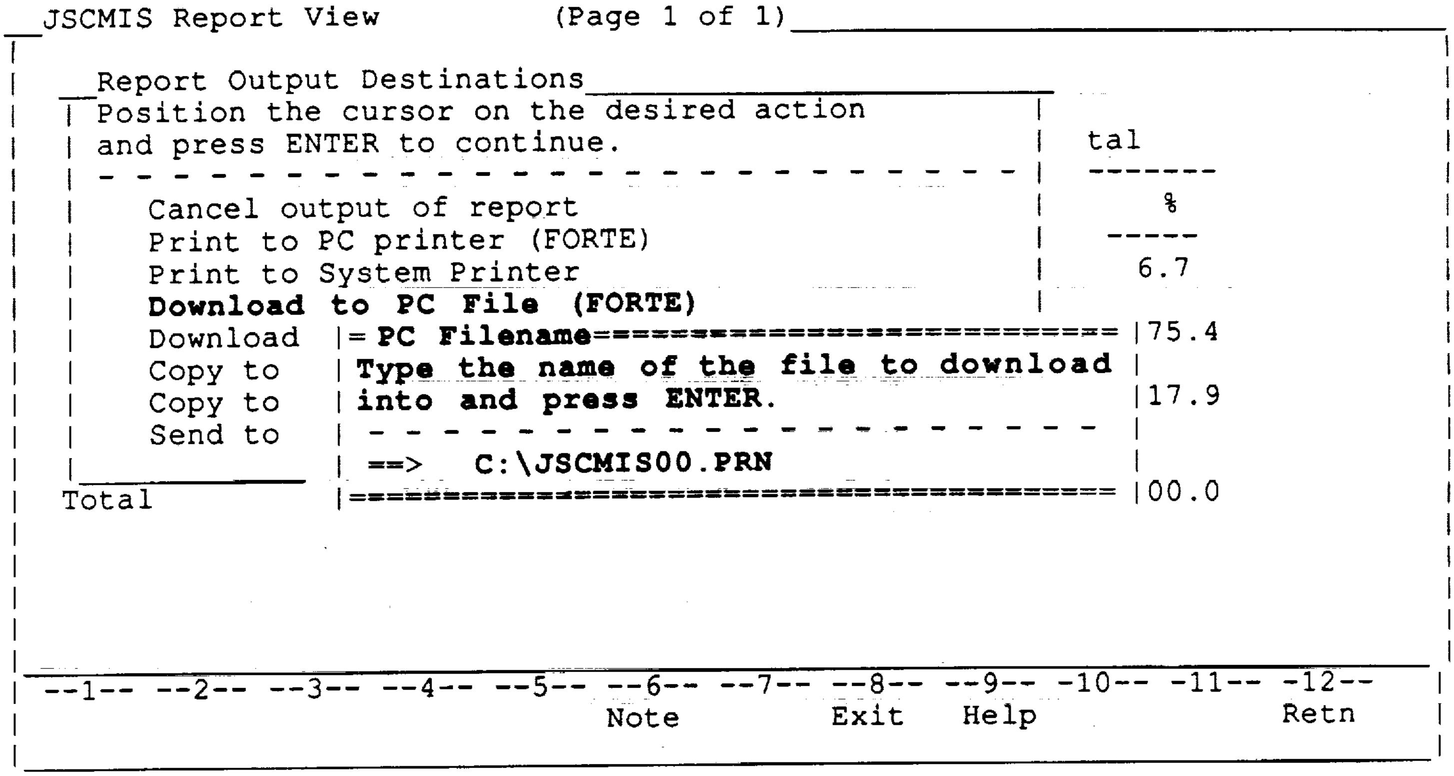
SECTION 8

Printing a REPORT

```
JSCMIS Report View          (Page 1 of 1)
|                                                                          |
|  |=Report Output Destinations=========================|                  |
|  | Position the cursor on the desired action          |                  |
|  | and press ENTER to continue.                       | tal              |
|  | - - - - - - - - - - - - - - - - - - - - - - - - - - | -------          |
|  |    Cancel output of report                         |      %           |
|  |    Print to PC printer (FORTE)                     |  -----           |
|  |    Print to System Printer                         |    6.7           |
|  |    Download to PC File (FORTE)                     |                  |
|  |    Download to PC File with delimiters (FORTE)     |   75.4           |
|  |    Copy to a CMS File                              |                  |
|  |    Copy to a CMS File with delimiters              |   17.9           |
|  |    Send to PROFS with an attached note             |                  |
|  |====================================================|                  |
|  Total                 107  10.6      899  89.4    1,006 100.0           |
|                                                                          |
|                                                                          |
|                                                                          |
|                                                                          |
|                                                                          |
|                                                                          |
|--------------------------------------------------------------------------|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--  |
|                               Note        Exit   Help             Retn   |
|                                                                          |
```

REPORT Output Destinations

- The user pressed PF8 at the display window.
- Output options include printing the display or storing the display as a file. The display may be printed at the user's PC printer if they are using FORTE communication or a system printer of the user's choosing. The display may also be stored either as an ASCII or as a delimited ASCII file on either the user's PC drive if the user is using FORTE communications or the CMS disk. The user may also direct the display to a PROFS account with or without an attached note.
- The user selects the desired output option by placing the cursor on that option and pressing ENTER.



```
__JSCMIS Report View          (Page 1 of 1)_____________________________
|                                                                       |
|  __Report Output Destinations_______________________                 |
|  | Position the cursor on the desired action       |                 |
|  | and press ENTER to continue.                     |  tal            |
|  | - - - - - - - - - - - - - - - - - - - - - - - -  |  -------        |
|  |    Cancel output of report                       |     %           |
|  |    Print to PC printer (FORTE)                   |   -----         |
|  |    Print to System Printer                       |    6.7          |
|  |    Download to PC File (FORTE)                   |                 |
|  |    Download  |= PC Filename========================= |75.4        |
|  |    Copy to   | Type the name of the file to download |            |
|  |    Copy to   | into and press ENTER.                 |17.9        |
|  |    Send to   | - - - - - - - - - - - - - - - - - - - |            |
|  |__________    | ==>   C:\JSCMIS00.PRN                 |            |
|  Total          |========================================= |00.0     |
|                                                                       |
|                                                                       |
|_______________________________________________________________________|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12-- |
|                               Note        Exit  Help              Retn |
|_______________________________________________________________________|
```

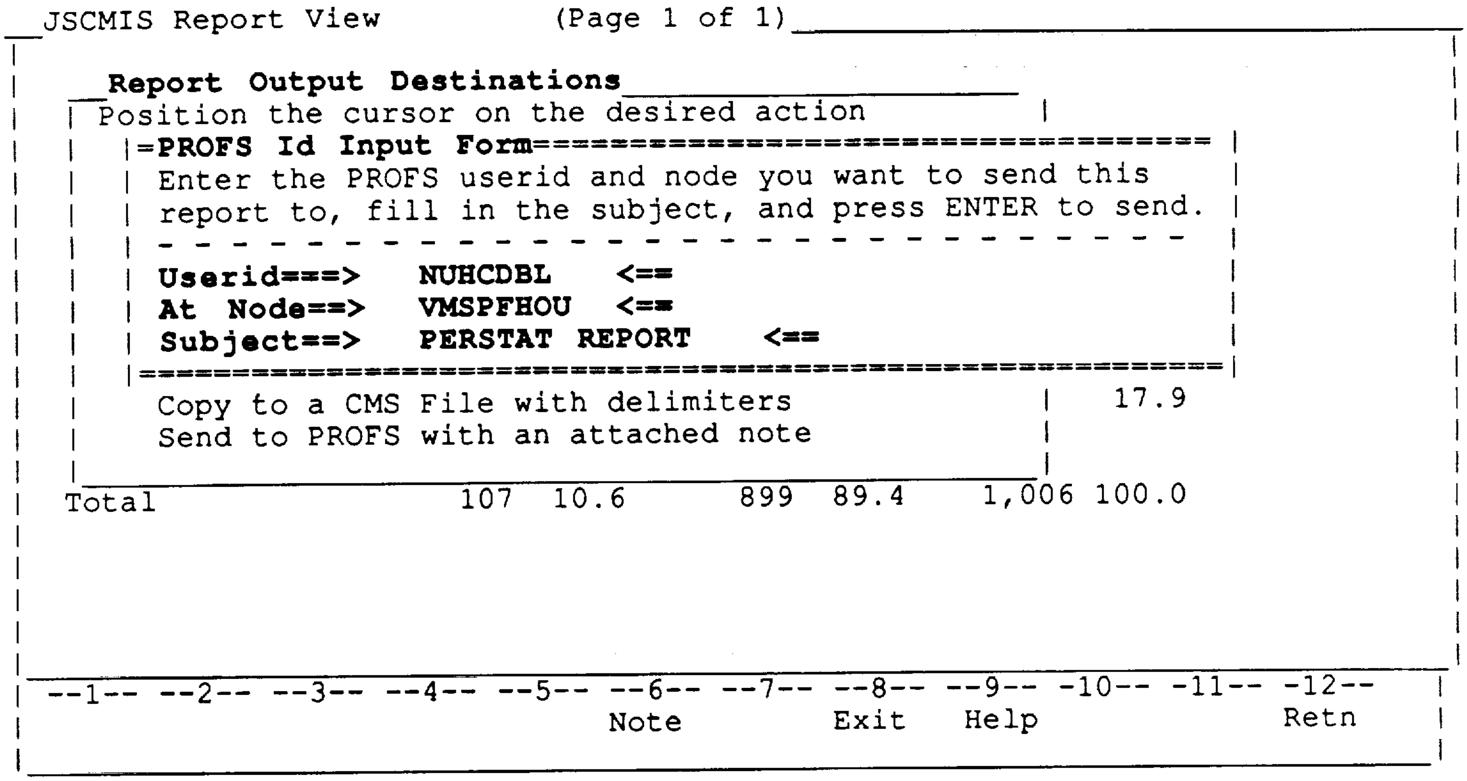
Filename

•The user chooses to download the display as a file on his/her PC by placing the cursor on that option and pressing ENTER.

•The user must now specify the filename within which the display is to be stored.

•The default name "C:\JSCMIS00.PRN" is displayed. The user may store the display in that file simply by pressing ENTER. The user may also edit the name by typing over any portion (including the path) in order to store it under a different name. When the name is correct, the user presses ENTER to begin the download.

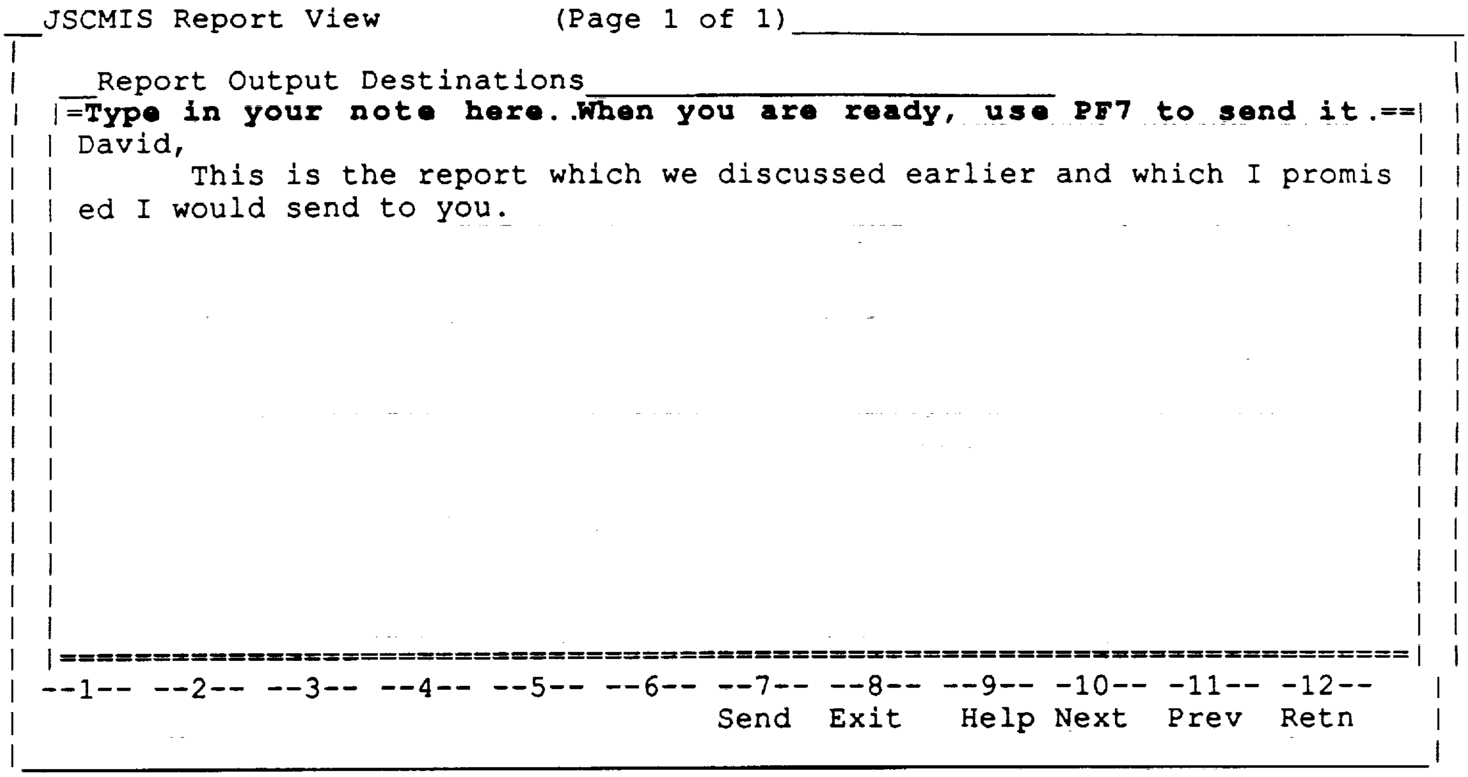
* Note: This file will write over an existing PC file of that name!



```
__JSCMIS Report View          (Page 1 of 1)______________________________
|                                                                        |
|   __Report Output Destinations____________________                      |
|  | Position the cursor on the desired action          |                 |
|  |   |=PROFS Id Input Form=================================== |         |
|  |   | Enter the PROFS userid and node you want to send this  |         |
|  |   | report to, fill in the subject, and press ENTER to send. |       |
|  |   | - - - - - - - - - - - - - - - - - - - - - - - - - - -  |         |
|  |   | Userid===>   NUHCDBL    <==                            |         |
|  |   | At Node==>   VMSPFHOU   <==                            |         |
|  |   | Subject==>   PERSTAT REPORT    <==                      |         |
|  |   |========================================================|         |
|  |     Copy to a CMS File with delimiters           |    17.9           |
|  |     Send to PROFS with an attached note          |                   |
|  |__________________________________________________|                   |
|  Total                   107  10.6       899  89.4    1,006 100.0       |
|                                                                        |
|                                                                        |
|                                                                        |
|________________________________________________________________________|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12-- |
|                               Note         Exit  Help             Retn |
|________________________________________________________________________|
```

SENDING A REPORT VIA PROFS

- The user selected the option to send the display as a PROFS note.
- The screen illustrates the window in which the user inserts the address to which he/she wishes to send a PERSTAT REPORT.
- The user types in the USERID, the NODE, and the subject of the Report.



```
__JSCMIS Report View          (Page 1 of 1)
  __Report Output Destinations
  =Type in your note here. When you are ready, use PF7 to send it.==
  David,
        This is the report which we discussed earlier and which I promis
  ed I would send to you.

  ====================================================================
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                                    Send  Exit   Help Next  Prev  Retn
```

- This screen illustrates the note window which appears when the user indicates that he wishes to send a REPORT via Profs.

```
JSCMIS Report View          (Page 1 of 1)
|                                                                                |
|  Report Output Destinations                    Note                            |
|  | Position the cursor on the desired action   | Report has been sent          |
|  | and press ENTER to continue.                | to: NUHCDBL at VMSPFHOU:      |
|  | - - - - - - - - - - - - - - - - - - - - - - | Press ENTER to continue:      |
|  |    Cancel output of report                  |                               |
|  |    Print to PC printer (FORTE)                        |  -----                |
|  |    Print to System Printer                            |    6.7                |
|  |    Download to PC File (FORTE)                        |                       |
|  |    Download to PC File with delimiters (FORTE)        |   75.4                |
|  |    Copy to a CMS File                                 |                       |
|  |    Copy to a CMS File with delimiters                 |   17.9                |
|  |    Send to PROFS with an attached note                |                       |
|  |                                                       |                       |
|  Total                  107  10.6      899  89.4    1,006 100.0                |
|                                                                                |
|                                                                                |
|                                                                                |
|                                                                                |
|                                                                                |
|  --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--       |
|                                      Send  Exit   Help Next  Prev  Retn        |
```

VERIFICATION OF REPORT SENT

- The user will be notified that his/her report has been sent to the intended address in PROFS

SECTION 9

Saving CONDITIONS and REPORTS

```
JSCMIS
        Johnson  Space  Center   Management  Information System
 ----------------------------------------------  Note
 Application: PERSTAT                            Report GENCNTOCC is ready.
 Enter the application in the f                  Press ENTER to view the
 cu |=Main==================================|    report, or the SAVE
 -  | Please fill in the blanks, or press |     functionkey to save it.
 PE | the LIST functionkey for entries.   |
 PE | - - - - - - - - - - - - - - - - - - |
 PE |     REPORT name:  GENCNTOCC         |
 PL |                                     |
 ST |     FORMAT name:  GENCNTOCC         |
    |                                     |
    | CONDITIONS name:  SAMSET            |
    |=====================================|
                                            Include all records where
                                            A. BIRTH LE 12/31/49
                                            AND
                                            B. GRD AMONG(11,13,15)
 Function Keys
 --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
       Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

MAIN

- The user pressed PF12 at the display window to return to the MAIN Menu.
- The user now wants to save the CONDITIONS for later use. He/she therefore places the cursor on the CONDITIONS name and presses PF2

```
JSCMIS
        Johnson  Space  Center   Management  Information System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT
| Enter the application in the f |
| cu  Main
| -   | Please fill in the blanks, or press |
| PE  | th |= Actions for new CONDITIONS ============ |
| PE  | -  | Position the cursor on the desired action |
| PE  |    | - - - - - - - - - - - - - - - - - - - - - |
| PL  |    |   Save new CONDITIONS set SAMSET |
| ST  |    |   Do not save new CONDITIONS set SAMSET |
|     |    |=========================================|
      | CONDITIONS name:  SAMSET |
      |__________________________|

                                        Include all records where
                                        | A. BIRTH LE 12/31/49
                                        | AND
                                        | B. GRD AMONG(11,13,15)
Function Keys                           |
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note        Exit   Help             Retn
```

Saving the CONDITIONS

- The user placed the cursor on the CONDITIONS name and pressed PF2 to save the CONDITIONS

Changed CONDITIONS

- If the user has been making changes to his conditions set, he/she will be asked whether he wants to replace those prior conditions.

```
JSCMIS
        Johnson  Space  Center   Management  Information System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT
Enter the application in the f
cu  Main
-   Please fill in the blanks, or press
PE  th  Actions for new CONDITIONS
PE  -   Position the cursor on the desired action
PE      - - - - - - - - - - - - - - - - - - - -
PL        =Enter a description for CONDITIONS set SAMSET=
ST
        CONDITIONS name:  SAMSET

                                          Include all records where
                                          A. BIRTH LE 12/31/49
                                          AND
                                          B. GRD AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                            Note        Exit   Help             Retn
```

Enter a description...

- The user is then asked to describe the saved condition in this example.
- Note that the user will be asked to describe a particular conditions set only when he presses PF2 to save it--not each time changes are made.

```
JSCMIS
        Johnson  Space  Center   Management  Information System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT
Enter the application in the f
cu  Main
-   Please fill in the blanks, or press
PE  th  Actions for new CONDITIONS
PE  -   Position the cursor on the desired action
PE      - - - - - - - - - - - - - - - - - - - - -
PL        =Enter a description for CONDITIONS set SAMSET=
ST        Personnel 40 yrs old w/ grades 11,13,15
          ==============================================
    CONDITIONS name:  SAMSET

                                        Include all records where
                                        A. BIRTH LE 12/31/49
                                        AND
                                        B. GRD AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                             Note        Exit   Help             Retn
```

- In this example the user has entered a brief description of the conditions set.

```
JSCMIS
        Johnson  Space  Center   Management  Information System
                                                  Note
 Application: PERSTAT                             Report GENCNTOCC is ready.
 Enter the application in the f                   Press ENTER to view the
 cu =Main=================================        report, or the SAVE
 -   Please fill in the blanks, or press         functionkey to save it.
 PE  the LIST functionkey for entries.
 PE  - - - - - - - - - - - - - - - - - -
 PE       REPORT name:  GENCNTOCC
 PL
 ST       FORMAT name:  GENCNTOCC
          CONDITIONS name:  SAMSET
          ========================================
                                                  Include all records where
                                                  A. BIRTH LE 12/31/49
                                                  AND
                                                  B. GRD AMONG(11,13,15)
 Function Keys
 --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
       Save  Clear Erase Alter Note  List  Exit   Help              Retn
```

Return to MAIN MENU

- After saving the CONDITIONS set, the user will automatically to the MAIN MENU as shown above.
- At this point, the user may also wish to save the REPORT. To do so, he/she places the cursor in the REPORT name blank and presses PF2.

```
JSCMIS
|        Johnson  Space  Center   Management  Information System          |
| ----------------------------------------------------------Version-1.1--- |
| Application: PERSTAT                                                     |
| | Enter the application in the f |                                     |
| | cu  Main                                                               |
| | -  | Please fill in the blanks, or press |                              |
| | PE | th |=Actions for changed REPORT============ |                     |
| | PE | -  | Position the cursor on the desired action  |                      |
| | PE |    | - - - - - - - - - - - - - - - - - - - - -  |                      |
| | PL |    |   Save changes to REPORT GENCNTOCC         |                      |
| | ST |    |   Do not save changes to REPORT GENCNTOCC  |                      |
| |____|    |=========================================|                      |
|         | CONDITIONS name:  SAMSET              |                          |
|         |_______________________________________|                          |
|                                                                          |
|                                                  Include all records where |
|                                                  | A. BIRTH LE 12/31/49   |
|                                                  | AND                    |
|                                                  | B. GRD AMONG(11,13,15) |
| Function Keys                                    |________________________|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--  |
|                               Note        Exit   Help             Retn   |
|__________________________________________________________________________|
```

- If the user chooses to save the REPORT by pressing PF2 with the cursor in the REPORT Name blank, the above "Actions for a changed REPORT " window will appear.

```
JSCMIS
        Johnson  Space  Center   Management  Information System
                                                Note
 Application: PERSTAT                           GENCNTOCC is the name of a
 Enter the application in the f                 standard report, and
 cu  Main                                       cannot be used. Please
 -   Please fill in the blanks, or press       enter a new name.
 PE  the LIST functionkey for entries.
 PE  - - - - - - - - - - - - - - - - - -
 PE      REPORT name:  GENCNTOCC
 PL            =Change REPORT Name==================
 ST      FORMA  Enter new report name:   GENCNTOCC
               ========================================
         CONDITIONS name:  SAMSET
                                                Include all records where
                                                A. BIRTH LE 12/31/49
                                                AND
                                                B. GRD AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                             Note        Exit   Help             Retn
```

Change REPORT Name

- If the user chooses to save the changes to the REPORT, it will be necessary to give it an identifying name.
- Unfortunately, the REPORT name GENCNTOCC is a standard REPORT in the PERSTAT application and cannot be used because it already exists in the REPORT LIST.

```
JSCMIS
|        Johnson  Space  Center   Management  Information System          |
| ----------------------------------------  Note                          |
| Application: PERSTAT                      |GENCNTOCC is the name of a    |
| Enter the application in the f |          |standard report, and          |
| cu  Main                                  |cannot be used. Please        |
| -  |Please fill in the blanks, or press|  |enter a new name.             |
| PE |the LIST functionkey for entries.  |  |                              |
| PE |- - - - - - - - - - - - - - - - - -|                                 |
| PE |    REPORT name:  GENCNTOCC        |                                 |
| PL |          |=Change REPORT Name==================|                    |
| ST |    FORMA | Enter new report name: GENSAMSET|                        |
| ___ |         |=====================================|                    |
|    |CONDITIONS name:  SAMSET           |                                |
|    |___________________________________|                                |
|                                                                          |
|                                                  Include all records where
|                                                  | A. BIRTH LE 12/31/49 |
|                                                  | AND                  |
|                                                  | B. GRD AMONG(11,13,15)|
| Function Keys                                    |______________________|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--  |
|                              Note        Exit   Help             Retn   |
|__________________________________________________________________________|
```

- The user has the option of entering a new REPORT name at this point.
- The user may merely type over the old standard name of GENCNTOCC with the new name. In this case, the name GENSAMSET was used.

```
JSCMIS
        Johnson  Space  Center   Management  Information System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT
Enter the application in the f
cu  Main
-   Please fill in the blanks, or press
PE  the LIST functionkey for entries.
PE  - - - - - - - - - - - - - - - - - -
PE      REPORT name:  GENCNTOCC
PL       =Enter a description for REPORT GENSAMSET====
ST        Employees by org & sex-40 w/ grds 11,13,15
         ==================================================
     CONDITIONS name:  SAMSET

                                          Include all records where
                                          A. BIRTH LE 12/31/49
                                          AND
                                          B. GRD AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note        Exit   Help             Retn
```

REPORT DESCRIPTION

- As with the saving of a conditions set, the user will be asked to enter a description of the newly saved REPORT.

```
__JSCMIS_____________________________________________________________________
|        Johnson  Space  Center   Management  Information System            |
| ----------------------------------------------------------------Version-1.1--- |
| __Application: PERSTAT_____________ |=REPORT Menu   (Page 2 of 3)===========|
| | Enter the application in the f | | Position the cursor on the desired    |
| | cu __Main_____________________ | | value and press ENTER.                |
| | -  | Please fill in the blanks, | | - - - - - - - - - - - - - - - - - -   |
| | PE | the LIST functionkey for en | | NEW          Build a new report       |
| | PE | - - - - - - - - - - - - - - | | DEGSORGN     Cnt of emps by degree fi |
| | PE |     REPORT name:            | | GENCNTOCC    No. Of Employees by Orga |
| | PL |                             | | GENSAMSET    Employees by org & sex-4 |
| | ST |     FORMAT name:            | | GRDBYYEAR    Average Grade By Fiscal  |
| |____|                             | | KEYPOSMI     Key Position Mgmt Indica |
|      | CONDITIONS name:            | | MINBYYR      No. of Employees by Fisc |
|      |_____________________________| | MINCNTDIR    No. of Employees by Orgn |
|                                    | OCCBYYEAR    No. of Employees by Occu |
|                                    | OPTRETBYFY   No. of Optional Retireme |
|                                    | OPTRTBYDIR   No. of Optional Retireme |
|                                    | PROFEDUC     No. of Employees by Educ |
|                                    |=======================================|
| Function Keys                                                              |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--    |
|                   Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn     |
|____________________________________________________________________________|
```

REPORT LIST

- The above REPORT LIST shows that the new report GENSAMSET has indeed been saved along with its corresponding CONDITION set, SAMSET.

```
JSCMIS
        Johnson  Space  Center   Management  Information System
-----------------------------------------------------------Version-1.1---
Application: PERSTAT                 =CONDITIONS Menu   (Page 1 of 1)=======
Enter the application in the f       Position the cursor on the desired
cu  Main                             value and press ENTER.
-   Please fill in the blanks,       - - - - - - - - - - - - - - - - - - -
PE  the LIST functionkey for en      NEW        Build a new conditions s
PE  - - - - - - - - - - - - - - -     ALL        Include ALL records
PE     REPORT name:  GENCNTOCC       SAMSET     Personnel 40 yrs old w/
PL
ST     FORMAT name:  GENCNTOCC
       CONDITIONS name:  SAMSET
                                     ==========================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn
```

- The user may check that his condition was saved by seeing if it appears on the "CONDITIONS LIST."

```
JSCMIS
|        Johnson  Space  Center  Management  Information System          |
| ------------------------------------------ Note                        |
| Application: PERSTAT                        | Report MINCNTDIR is ready. |
| | Enter the application in the f |          | Press ENTER to view, or    |
| | cu |=Main==================================| type in any new values     |
| | -  | Please fill in the blanks, or press |  | to change...               |
| | PE | the LIST functionkey for entries.   |  |                            |
| | PE | - - - - - - - - - - - - - - - - - - |
| | PE |      REPORT name:  MINCNTDIR        |
| | PL |                                     |
| | ST |      FORMAT name:  MINCNTDIR        |
| |    |                                     |
|      | CONDITIONS name:  ALL               |
|      |=====================================|
|
| Function Keys
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
|       Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

MAIN

- The user selected the REPORT MINCNTDIR by placing the cursor on that name in the REPORT List and pressed ENTER.
- The default CONDITION for that REPORT is ALL, but the user wants to use the CONDITIONS previously saved under SAMSET.
- Therefore, the user moves the cursor the CONDITIONS Name and either types SAMSET or presses PF7 to bring up the CONDITIONS List.

```
JSCMIS
        Johnson  Space  Center   Management  Information System
                                                          Version-1.1---
 Application: PERSTAT              =CONDITIONS Menu    (Page 1 of 1)=======
 Enter the application in the f    Position the cursor on the desired
 cu  Main                          value and press ENTER.
 -   Please fill in the blanks,    - - - - - - - - - - - - - - - - - -
 PE  the LIST functionkey for en   NEW        Build a new conditions s
 PE  - - - - - - - - - - - - - -   ALL        Include ALL records
 PE    REPORT name:  MINCNTDIR     SAMSET     Personnel 40 yrs old w/
 PL
 ST  FORMAT name:  MINCNTDIR
     CONDITIONS name:
                                   ==================================
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn
```

CONDITIONS List

- The user placed the cursor on the CONDITIONS Name and pressed PF7 for the CONDITIONS List.
- The user wishes to choose the SAMSET CONDITIONS. Therefore, he/she moves the cursor to that name and presses ENTER.

```
JSCMIS
        Johnson  Space  Center   Management  Information System
 ----------------------------------------------  Note
 Application: PERSTAT                            Report MINCNTDIR is ready.
 Enter the application in the f                  Press ENTER to view the
 cu =Main================================        report, or the SAVE
 -   Please fill in the blanks, or press        functionkey to save it.
 PE  the LIST functionkey for entries.
 PE  - - - - - - - - - - - - - - - - -
 PE     REPORT name:   MINCNTDIR
 PL
 ST     FORMAT name:   MINCNTDIR

        CONDITIONS name:   SAMSET
        ====================================

                                                 Include all records where
                                                 A.  BIRTH  LE  12/31/49
                                                 AND
                                                 B.  GRD  AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help            Retn
```

MAIN

- The user placed the cursor on SAMSET and pressed ENTER.
- Now the REPORT MINCNTDIR is ready to run with the SAMSET CONDITIONS in place.
- The user runs the REPORT by pressing ENTER.

=JSCMIS Report View (Page 1 of 2)

Count of Employees By Organization and Minority Group

	Nonmin Male		Nonmin Femal		Min. Male		Min. Fe
	No.	%	No.	%	No.	%	No.
Dir/Staff (A)	14	51.9	8	29.6	5	18.5	0
Admin. (B)	50	55.0	25	27.5	11	12.1	5
Flt. Crew Ops. (C)	40	80.0	6	12.0	4	8.0	0
Mission Ops. (D)	107	88.4	7	5.8	7	5.8	0
Engineering (E)	170	85.9	7	3.5	20	10.1	1
Mission Supp. (F)	94	77.1	14	11.5	12	9.8	2
NSTS Program Office (G)	6	85.7	0	0.0	1	14.3	0
New Initiatives Office (I)	37	94.9	1	2.6	1	2.6	0
Center Ops. (J)	58	70.7	16	19.5	7	8.5	1
Space Station Proj Ofc (K)	26	86.7	2	6.7	2	6.7	0

--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
Pg -> Pg <- Note Print Help Pg Dn Pg Up Retn

=JSCMIS Report View (Page 2 of 2)

Count of Employees By Organization and Minority Group

	Nonmin Male		Nonmin Femal		Min. Male		Min. Fe
	No.	%	No.	%	No.	%	No.
Space Shuttle Proj Ofc (M)	2	100.0	0	0.0	0	0.0	0
SR & QA (N)	31	79.5	0	0.0	7	18.0	1
WSTF (R)	10	76.9	1	7.7	2	15.4	0
Space & Life Sciences (S)	81	87.1	6	6.5	6	6.5	0
NSTS Integration & Ope (T)	24	88.9	2	7.4	1	3.7	0
Orb. & GFE Proj. Ofc. (V)	37	84.1	2	4.6	5	11.4	0
NSTS Engineering Integ (W)	18	85.7	0	0.0	3	14.3	0
Total	805	80.0	97	9.6	94	9.3	10

--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
Pg -> Pg <- Note Print Help Pg Dn Pg Up Retn

- The user pressed ENTER at the MAIN menu with the MINCNTDIR ready to run.

=JSCMIS Report View **(Page 1 of 2)**

rity Group

Male %	Min. Female No.	Min. Female %	Total
18.5	0	0.0	27
12.1	5	5.5	91
8.0	0	0.0	50
5.8	0	0.0	121
10.1	1	0.5	198
9.8	2	1.6	122
14.3	0	0.0	7
2.6	0	0.0	39
8.5	1	1.2	82
6.7	0	0.0	30

--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
Pg -> Pg <- Note Print Help Pg Dn Pg Up Retn

=JSCMIS Report View **(Page 2 of 2)**

rity Group

Male %	Min. Female No.	Min. Female %	Total
0.0	0	0.0	2
18.0	1	2.6	39
15.4	0	0.0	13
6.5	0	0.0	93
3.7	0	0.0	27
11.4	0	0.0	44
14.3	0	0.0	21
9.3	10	1.0	1006

--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
Pg -> Pg <- Note Print Help Pg Dn Pg Up Retn

- These examples illustrate the effects of using the PF keys to "Page" left and right. Paging up and down may also be necessary in some REPORTS.

- The user returns to the MAIN Menu by pressing ENTER or PF12.

```
JSCMIS
|        Johnson  Space  Center   Management  Information System          |
| ----------------------------------------- Note                          |
| Application: PERSTAT                       | Report MINCNTDIR is ready.  |
| Enter the application in the f |           | Press ENTER to view the     |
| cu |=Main================================| | report, or the SAVE         |
| -  | Please fill in the blanks, or press  | | functionkey to save it.     |
| PE | the LIST functionkey for entries.    |
| PE | - - - - - - - - - - - - - - - - - -  |
| PE |   REPORT name: MINCNTDIR             |
| PL |                                      |
| ST |   FORMAT name: MINCNTDIR             |
|    |                                      |
     | CONDITIONS name:   SAMSET            |
     |=====================================|
|                                            Include all records where
|                                            | A. BIRTH LE 12/31/49        |
|                                            | AND                         |
|                                            | B. GRD AMONG(11,13,15)      |
| Function Keys
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--  |
|       Save  Clear Erase Alter Note  List  Exit   Help             Retn  |
```

MAIN

- The user wishes to save the MINCNTDIR REPORT with the new SAMSET CONDITIONS.
- He/she moves the cursor to the REPORT Name and presses PF2.
- Because MINCNTDIR is the name of a standard report, the user will be asked to rename his/her new report with these special conditions.

SECTION 10

Deleting REPORTS AND CONDITONS

```
JSCMIS
        Johnson  Space  Center   Management  Information System
 ----------------------------------------
 Application: PERSTAT
 Enter the application in the f
 cu =Main==================================
 -  Please fill in the blanks, or press
 PE the LIST functionkey for entries.
 PE - - - - - - - - - - - - - - - - - - -
 PE     REPORT name:   MINCNTDIR2
 PL
 ST     FORMAT name:   MINCNTDIR
 CONDITIONS name:  SAMSET
 ==========================================

                                          Include all records where
                                          A. BIRTH LE 12/31/49
                                          AND
                                          B. GRD AMONG(11,13,15)
 Function Keys
 --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                                Note        Exit   Help             Retn
```

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
 ----------------------------------------------------------Version-1.1----
 Application: PERSTAT
 Enter the application in the f
 cu Main
 -  Please fill in the blanks, or press
 PE the LIST functionkey for entries.
 PE - - - - - - - - - - - - - - - - - - -
 PE     ==============================================
 PL     To erase REPORT MINCNTDIR2, press
 ST     the ERASE functionkey. To cancel,
        press the RETN functionkey.
 COND   ==============================================

                                          Include all records where
                                          A. BIRTH LE 12/31/49
                                          AND
                                          B. GRD AMONG(11,13,15)
 Function Keys
 --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                   Erase        Note        Exit   Help             Retn
```

DELETING A REPORT

- This screen was displayed as a result of pressing PF4 with the cursor on REPORT name.

- The REPORT will be permanently erased when the user presses PF4 again while in this window.

- The user may verify that REPORT MINCNTDIR2 has indeed been deleted by pressing PF7 to bring up the REPORT LIST to see if it is present. If all has gone well, that REPORT should be conspicuous by its absence.

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ------------------------------------------ __Note_____________________
| __Application: PERSTAT___________          |Conditions set SAMSET is |
| | Enter the application in the f |         |ready to be modified,    |
| | cu |=Main==============================|  |saved or deleted.        |
| | -  | Please fill in the blanks, or press |  |_________________________|
| | PE | the LIST functionkey for entries.   |
| | PE | - - - - - - - - - - - - - - - - - - |
| | PE |     REPORT name:                    |
| | PL |                                     |
| | ST |     FORMAT name:                    |
| |____|                                     |
|      | CONDITIONS name:  SAMSET            |
|      |=====================================|
|
| Function Keys
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
|       Save  Clear Erase Alter Note  List  Exit   Help             Retn
|_____________________________________________________________________
```

DELETING A SET OF CONDITIONS

- These windows show the procedure for erasing a CONDITIONS SET.
- Erasing a CONDITION SET is similar to erasing a REPORT--merely place the cursor on the CONDITION name while in the MAIN MENU and press the PF4 key.

```
__JSCMIS_____________________________________________________________________
|        Johnson  Space  Center   Management  Information  System            |
| ----------------------------------------------------------Version-1.1----  |
| __Application: PERSTAT_____________                                        |
| | Enter the application in the f |                                        |
| | cu __Main_____________________________                                   |
| | -  | Please fill in the blanks, or press |                               |
| | PE | the LIST functionkey for entries.   |                               |
| | PE | - - - - - - - - - - - - - - - - - - |                               |
| | PE |     REP |=========================================|                  |
| | PL |         | To erase Conditions set SAMSET,         |                  |
| | ST |     FOR | press the ERASE functionkey.            |                  |
| |___ |         | To cancel, press the RETN               |                  |
| | CONDITI | functionkey.                                |                  |
| |_________|=========================================|                  |
|                                                                            |
|                                                                            |
|                                                                            |
| Function Keys                                                              |
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--    |
|                   Erase       Note        Exit   Help             Retn    |
|____________________________________________________________________________|
```

- When the user presses the Pf4 key while in this window, the CONDITIONS SET will be permanently erased.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
 ----------------------------------------------  Note
 Application: PERSTAT                            Conditions set SAMSET has
 Enter the application in the f                  been deleted.
 cu =Main=================================
 -  Please fill in the blanks, or press
 PE the LIST functionkey for entries.
 PE - - - - - - - - - - - - - - - - - -
 PE     REPORT name:
 PL
 ST     FORMAT name:
 ___
        CONDITIONS name:
        ====================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
      Save  Clear Erase Alter Note  List  Exit   Help             Retn
```

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
 ----------------------------------------------------------------Version-1.1----
 Application: PERSTAT                 =CONDITIONS Menu   (Page 1 of 1)=======
 Enter the application in the f       Position the cursor on the desired
 cu  Main                             value and press ENTER.
 -  Please fill in the blanks,        - - - - - - - - - - - - - - - - - - -
 PE the LIST functionkey for en       NEW          Build a new conditions s
 PE - - - - - - - - - - - - - -        ALL          Include ALL records
 PE     REPORT name:
 PL
 ST     FORMAT name:
 ___
        CONDITIONS name:
        ____________________________
                                      ======================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Pg -> Pg <- Note        Exit   Help Pg Dn Pg Up Retn
```

- These windows each indicate that the deletion of the CONDITIONS SET SAMSET has been successful.

SECTION 11

Exiting JSCMIS

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
=Application Area List=========================================
 Enter the application in the field below, or position the
 cursor on the desired application, and press ENTER.
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 PERSON     Personnel Data                          01/02/90
 PERSTAT    Personnel Statistics                    09/22/89
 PLANACT    Plan vs. Actual Costs                   12/31/89
 STATISTICS JSCMIS Interface Usage Statistics       01/12/90
==============================================================

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                             Note        Logoff Help             PROFS
```

MAIN

- Having completed the work for this session, the user may quickly log off JSCMIS by pressing PF8.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-------------------------------------------------------------Version-1.1---
Application: PERSTAT
Enter the application in the f
cu  Main
-   Please fill in the blanks, or press
PE  the LIST functionkey for entries.
PE  - - - - -   =Exit Options==========================
PE      REPORT   Position the cursor on the desired
PL               option and press ENTER.
ST      FORMAT   - - - - - - - - - - - - - - - - - - -
                 Return to PROFS
        CONDITIONS  Logoff entirely
                 ======================================

                                        Include all records where
                                        A. BIRTH LE 12/31/49
                                        AND
                                        C. GRD AMONG(11,13,15)
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                                                              Retn
```

- This screen illustrates the choice which the user gets when he/she presses PF8--the EXIT key.

```
J O H N S O N   S P A C E   C E N T E R   P R O F S   S Y S T E M      A00
Press one of the following PF keys.

PF1  Schedule Appointments                                  Time:  10:24 AM
PF2  Review In-Basket                 ********
PF3  Message Center                   * MENU *        1990    JANUARY    1990
PF4  Send A Note/Review Note Log      *  1   *       S   M   T   W   T   F   S
PF5  JSC Mgmt Information System      ********           1   2   3   4   5   6
PF6  Browse Nickname Files                            7   8   9  10  11  12  13
PF7  Bulletin Boards                                 14  15  16  17  18  19  20
PF8  LOGOFF                                          21  22  23  24  25  26  27
                                                     28  29  30  31
PF10 On-line Phone Directory                                   Day of Year: 022
PF11 To Main Menu 2
     5664-309 (C) Copyright IBM Corp. 1983, 1987      PF9 Help    PF12 End
   --- FOR HELP CALL 280-4800 ---

==>
```

- If the user chooses to return to PROFS, he/she will be taken to the Main Menu where he/she will be presented with the usual choices available.

```
'IRTUAL MACHINE/SYSTEM PRODUCT

            ***********     WELCOME  TO     **********
            *                  CIS-B
            *           RUNNING  -  PROFS            *
            *      (PROFESSIONAL OFFICE SYSTEM)     ***
          *****                                    *****
           ***      Center Information Network      *
            *       L. B. Johnson Space Center      *
                                                    *
            ******************************************
                  FOR NASA AUTHORIZED USERS ONLY
          UNAUTHORIZED USE IS A VIOLATION OF FEDERAL LAW
                  Press Enter to Initiate Logon
                 Type VMEXIT to Terminate Session
                       Help (713) 280-4800

Fill in your USERID and PASSWORD and press ENTER
(Your password will not appear when you type it)
USERID   ===> VMEXIT

PASSWORD ===>

COMMAND  ===>
                                                RUNNING   VMSPFHOU
```

CIS-C MENU

- After logging off, type in VMEXIT in the CIS-C Menu to terminate session.

SECTION 12

Getting HELP

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
  Help Menu
  1...Introduction
  2...Instructions
  3...Special Keys
  4...Entering Information
  5...Picking Items From Lists
  6...Search Capabilities (Wildcards)
  7...MAIN Window
  8...APPLICATION Area Name
  9...REPORT Name
 10...Report FORMAT Name
 11...CONDITIONS Definition
 12...CONDITIONS Name              |=Number=|
 13...FIELD Name                   |       |
 14...Logical OPERATORs            |=======|
 15...VALUEs
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                              Note                     Pg Dn Pg Up Retn
```

MAIN HELP MENU

- This screen illustration shows you the Main Help Menu which appears when PF9 is pressed.
- You may select your Help topic by entering the proper number in the small box in the lower right hand corner of the Help Menu.
- Note that the cursor is automatically placed in that small window so that you may enter your topic selection.

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-------------------------------------------------------------Version-1.1---
  Help Menu
  1...Introduction
  2...Instructions
  3...Special Keys
  4...Entering Information
  5...Picking Items From Lists
  6...Search  Capabilities  (Wildcards)
  7...MAIN Window
  8...APPLICATION Area Name
  9...REPORT Name
 10...Report FORMAT Name
 11...CONDITIONS Definition
 12...CONDITIONS Name            =Number=
 13...FIELD Name                    6
 14...Logical OPERATORs          =========
 15...VALUEs
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                                Note                    Pg Dn Pg Up Retn
```

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-------------------------------------------------------------Version-1.1---
  =Search  Capabilities  (Wildcards)==============================
  |
  |    The values LIST may be customized by the user through
  | the use of "wildcard" characters.  Before pressing PF10,
  | the user may enter a character string containing the
  | characters that the user wishes to search for in the LIST.
  | The "wildcard" character may be an asterisk (*) or a slash
  | (/). Thus, if a user wishes to see a list of all REPORTs
  | beginning with 'AGE', then the user would type 'AGE*'
  | in the REPORT name field. The LIST can then be displayed
  | by pressing either PF10 or ENTER. Only those REPORT names
  | that begin with 'AGE' will appear on the LIST.
  |
  | NOTE: The wildcard character can appear anywhere in the
  |       search string. For example:
  |       *AGE* - shows a list of all REPORTs whose names
  ==================================================================
Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                  Next  Prev  Note                      Pg Dn Pg Up Retn
```

- This example appeared as a result of placing a "6" in the NUMBER window in the MAIN HELP window "Search Capabilities (Wildcards)" and pressing ENTER.

- It illustrates the text style format of the Help topic explanations

- You may continue reading the text by pressing PF10 (Pg Dn)
- You may go back to text by pressing PF11 (PG Up)
- Use PF5 to continue to read previous topics.
- Use PF4 to continue to read the next topics.
- Use ENTER or PF12 to return to the MAIN HELP menu.

SECTION 13

Sending Notes

```
JSCMIS
        Johnson  Space  Center   Management  Information  System
-----------------------------------------------------------Version-1.1---
 Application Area List
| Enter the application in the field below, or position the
| cu |=Subject Input Form==============================|
| -  | Please fill in the subject for this note, and| - - -|
| 6  | press ENTER to go on to the note window.     |      |
| PE | - - - - - - - - - - - - - - - - - - - - - - - - |/02/90|
| PE | Subject==> Additional Formats    <==           |/22/89|
| PL |=================================================|/31/89|
| STATISTICS JSCMIS Interface Usage Statistics        01/12/90 |
|_____________________________________________________________|

Function Keys
--1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--
                                    Send  Exit   Help Next  Prev  Retn
```

SENDING A NOTE TO THE DEVELOPERS

- Since the developers of the JSCMIS interface intend to continue improving its effectiveness, they are making it easy for users to give them constructive comments, criticism, and advice.

- Therefore, any user who wishes to offer feedback to the JSCMIS development team may simply press PF7 to send a note to them.

- This window asks the user to indicate the subject of note.

```
JSCMIS
|        Johnson  Space  Center   Management  Information  System          |
| ----------------------------------------------------------Version-1.1--- |
| |=Type in your note and press PF7 to send it.======================= |
| |                                                                       |
| | Hello Carol. I have used the PERSTAT application several times now.  I |
| | like the list of formats (or list of standard REPORTS) as they are.  So|
| | far, it has been easy to use the "Build CONDITIONS" mode to create    |
| | tailor-made reports which I need.                                     |
| |                                                                       |
| |     However, I would like to know how to request additional formats (or|
| | standard REPORTS) to the Main Menu of a given application.            |
| |                                                                       |
| |     As more applications are added to JSCMIS, I can foresee the possi-|
| | bility of a general need for standard REPORTS which the owners of a   |
| | particular database may not anticipate.                               |
| |                                                                       |
| |     Thank you for your help.                                          |
| |                                                                       |
| |                                                                       |
| |                                                                       |
| |=======================================================================|
| --1-- --2-- --3-- --4-- --5-- --6-- --7-- --8-- --9-- -10-- -11-- -12--  |
|                                     Send  Exit   Help Next  Prev  Retn   |
|                                                                          |
```

- This is an example of a note which is asking the developers what the proper procedure is for requesting the addition of a standard REPORT in a given JSCMIS application.

JSCMIS

MIDSE Interface

Appendix I.

Personnel Statistics

Standard Reports from PERSTAT Application

Space Business Research Center

UHCL/RICIS

Representative Samples of Standard Reports from Application PERSTAT

AGEBYDIR

Average Age of Employees By Directorate

Organization	Age
Dir/Staff (A)	43.3
Admin. (B)	42.7
Flt. Crew Ops. (C)	42.8
Mission Ops. (D)	37.8
Engineering (E)	41.2
Mission Supp. (F)	42.5
NSTS Program Office (G)	44.1
New Initiatives Office (I)	46.5
Center Ops. (J)	45.5
Space Station Proj Ofc (K)	46.2
Space Shuttle Proj Ofc (M)	51.2
SR & QA (N)	42.0
WSTF (R)	41.1
Space & Life Sciences (S)	46.0
NSTS Integration & Ope (T)	46.8
Orb. & GFE Proj. Ofc. (V)	48.5
NSTS Engineering Integ (W)	44.9
Center Average	42.7

Format: AGEBYDIR Data as of 092289

AGEBYOCC

Average Age by Occupation

By NASA Classification Code	Age
Wage Grade/Technician	47.4
Scientist and Engineer	42.2
Professional Administration	44.3
Clerical	41.5
Overall Average	42.7

Format: AGEBYOCC Data as of 092289

AGEBYYR

Average Age of Employees By Year and Occupation

FY	WG/Tech	S & E	End of Prof.	Adm.	Clerical	Total
1981	47.8	43.1		46.2	41.2	43.6
1982	48.7	43.7		46.0	41.6	44.2
1983	48.7	44.2		45.9	41.7	44.5
1984	49.1	44.1		46.0	40.3	44.2
1985	49.4	43.6		45.7	40.6	43.9
1986	49.2	43.4		45.7	40.7	43.8
1987	48.7	42.9		45.9	40.8	43.5
1988	47.7	42.5		44.9	41.2	43.0
1989	47.3	42.2		44.2	41.5	42.7

Format: AGEBYYR Data as of 092289

AGEPROFEMP

Average Age of Professional Employees

Age	S & E No.	S & E %	Prof Admin No.	Prof Admin %	Total Prof. Workforce No.	Total Prof. Workforce %
20-24	166	7.2	16	2.8	182	6.3
25-29	368	16.0	64	11.2	432	15.0
30-34	319	13.8	69	12.1	388	13.5
35-39	200	8.7	75	13.2	275	9.6
40-44	215	9.3	94	16.5	309	10.7
40-49	430	18.6	78	13.7	508	17.7
50-54	353	15.3	82	14.4	435	15.1
55-59	185	8.0	59	10.4	244	8.5
60-Above	71	3.1	33	5.8	104	3.6
Total	2,307	80.2	570	19.8	2,877	100.0

Format: AGEPROFEMP Data as of 092289

AVGSALARY

Average Salaries by Occupation

	Average Salary	Total Salaries
WG/Technician	$33,310	$6,861,866
Scientist & Engr.	$49,967	$115,274,983
Prof. Admin.	$39,684	$22,619,732
Clerical	$19,483	$8,767,340
Total	$43,454	$153,523,921

Format: AVGSALARY Data as of 092289

CNTBYDIR

Count of Employees By Organization and Occupation

	WG/Tech				S & E		Prof Adm		Clerical			
	No.	%	No.	%	No.	%	No.	%		Tot	SES
Dir/Staff (A)	1	0.7	9	6.6	89	65.4	37	27.2		136	11
Admin. (B)	0	0.0	35	9.2	275	72.0	72	18.9		382	2
Flt. Crew Ops. (C)	32	20.1	92	57.9	9	5.7	26	16.4		159	3
Mission Ops. (D)	3	0.6	439	86.6	15	3.0	50	9.9		507	7
Engineering (E)	16	2.3	626	89.2	11	1.6	49	7.0		702	7
Mission Supp. (F)	4	1.2	280	83.8	23	6.9	27	8.1		334	4
NSTS Program Office (G)	0	0.0	9	34.6	5	19.2	12	46.2		26	0
New Initiatives Office (I)	0	0.0	71	80.7	4	4.6	13	14.8		88	2
Center Ops. (J)	114	33.7	73	21.6	98	29.0	53	15.7		338	2
Space Station Proj Ofc (K)	0	0.0	77	74.8	9	8.7	17	16.5		103	3
Space Shuttle Proj Ofc (M)	0	0.0	4	66.7	1	16.7	1	16.7		6	0
SR & QA (N)	24	14.4	124	74.3	3	1.8	16	9.6		167	2
WSTF (R)	0	0.0	39	76.5	5	9.8	7	13.7		51	1
Space & Life Sciences (S)	9	3.6	206	83.4	7	2.8	25	10.1		247	5
NSTS Integration & Ope (T)	0	0.0	71	82.6	6	7.0	9	10.5		86	0
Orb. & GFE Proj. Ofc. (V)	3	2.3	95	73.6	6	4.7	25	19.4		129	2
NSTS Engineering Integ (W)	0	0.0	57	79.2	4	5.6	11	15.3		72	0
Total	206	5.8	2307	65.3	570	16.1	450	12.7		3533	51

Format: CNTBYDIR Data as of 092289

CNTMERIT

Count of Merit Pay Employees by Directorate

Directorate	No. Merit Pay	% Merit Pay	% Workforce
Dir/Staff (A)	20	3.3	14.7
Admin. (B)	58	9.7	15.2
Flt. Crew Ops. (C)	17	2.8	10.7
Mission Ops. (D)	96	16.0	18.9
Engineering (E)	96	16.0	13.7
Mission Supp. (F)	72	12.0	21.6
NSTS Program Office (G)	3	0.5	11.5
New Initiatives Office (I)	16	2.7	18.2
Center Ops. (J)	38	6.3	11.2
Space Station Proj Ofc (K)	17	2.8	16.5
Space Shuttle Proj Ofc (M)	3	0.5	50.0
SR & QA (N)	27	4.5	16.2
WSTF (R)	8	1.3	15.7
Space & Life Sciences (S)	40	6.7	16.2
NSTS Integration & Ope (T)	44	7.3	51.2
Orb. & GFE Proj. Ofc. (V)	24	4.0	18.6
NSTS Engineering Integ (W)	22	3.7	30.6
Total	601	100.0	17.0

Format: CNTMERIT Data as of 092289

CNTSUPERS

Count of Supervisors by Directorate

	No of Supvs. & Mgrs	% of Orgn
Dir/Staff (A)	25	18.38
Admin. (B)	60	15.71
Flt. Crew Ops. (C)	21	13.21
Mission Ops. (D)	78	15.38
Engineering (E)	94	13.39
Mission Supp. (F)	58	17.37
NSTS Program Office (G)	2	7.69
New Initiatives Office (I)	12	13.64
Center Ops. (J)	52	15.38
Space Station Proj Ofc (K)	17	16.50
Space Shuttle Proj Ofc (M)	1	16.67
SR & QA (N)	25	14.97
WSTF (R)	7	13.73
Space & Life Sciences (S)	37	14.98
NSTS Integration & Ope (T)	17	19.77
Orb. & GFE Proj. Ofc. (V)	23	17.83
NSTS Engineering Integ (W)	11	15.28
Total	540	15.3

Format: CNTSUPERS Data as of 092289

CNTSUPVYRS

Count of Supervisors by Fiscal Year

End of FY	No of Supvs. & Mgrs	Total Workforce	% of Orgn
1982	513	3,266	15.7
1983	519	3,219	16.1
1984	503	3,224	15.6
1985	549	3,330	16.5
1986	542	3,267	16.6
1987	526	3,347	15.7
1988	523	3,423	15.3
1989	540	3,533	15.3

Format: CNTSUPVYRS Data as of 092289

COOPBYDIR

Number of Coop Conversions By Directorate

	No.	Percent
Dir/Staff(A)	5	2.5
Admin.(B)	26	12.9
Flt. Crew Ops.(C)	1	0.5
Mission Ops.(D)	36	17.9
Engineering(E)	81	40.3
Mission Supp.(F)	17	8.5
New Initiatives Office(I)	1	0.5
Center Ops.(J)	4	2.0
Space Station Proj Ofc(K)	1	0.5
SR & QA(N)	9	4.5
WSTF(R)	10	5.0
Space & Life Sciences(S)	10	5.0
Total	201	100.0

Format: COOPBYDIR Data as of 092289

COOPBYMIN

Number of Coop Conversions by Minority Code and Gender

Coop Conversions	No.	Percent
Nonminority Male	102	50.7
Nonminority Female	57	28.4
Minority Male	21	10.4
Minority Female	21	10.4
Total	201	100.0

Format: COOPBYMIN Data as of 092289

DEGSORGN

PAGE 1

Organization Degree Structure
Directorate: A-Dir/Staff

Division: AA-Office Of The Director

Degree Field	Cnt of Empls
	2
Other, Related	1
Aerospace, Aeronau, Astronau, Eng	1
Elect, Electronics, Commun. Engr.	3
Mechanical Engineering	1
Applied Mathematics	1
	1
Aerospace, Aeronau, Astronau, Eng	1
	5
Aerospace, Aeronau, Astronau, Eng	2
	9
	28
Business + Commerce General	1
Accounting	1
Banking And Finance	1
Business Mgmt + Administration	12
Marketing And Purchasing	1
Personnel Management	3
Communications, General	1
Italian	1
Philosophy	1
Other, Related	1
Library Science, General	1
Psychology, General	1
Psychology For Couseling	1
Public Administration	5
Anthropology	1
History	4
Political Science + Government	3
Sociology	1
	1
	2
Science Ed. Methodology Theory	1
Public Administration	2
Sociology	1
	2
Business Mgmt + Administration	1
Law, General	12
	4

DEGSORGN continued

	11
Business Mgmt + Administration	2
Journalism (Printed Media)	7
Radio/Television	2
Communication Media	1
Education, General	2
Educational Administration	1
Art (Painting, Drawing, Sculpt	1
Public Administration	1
History	1

Format: DEGSORGN Data as of 092289

PAGE 2

Organization Degree Structure
Directorate: A-Dir/Staff

Political Science + Government	1
Humanities + Social Sciences	2
	1
Physiological Psychology	1

Format: DEGSORGN Data as of 092289

GENCNTOCC

Count of Employees By Occupation and Gender

	Female		Male		Total	
	No.	%	No.	%	No.	%
WG/Technician	20	9.7	186	90.3	206	5.8
Scientist & Engr.	340	14.7	1,967	85.3	2,307	65.3
Prof. Admin.	298	52.3	272	47.7	570	16.1
Clerical	445	98.9	5	1.1	450	12.7
Total	1,103	31.2	2,430	68.8	3,533	100.0

Format: GENCNTOCC Data as of 092289

GRDBYYEAR

Average Grade By Fiscal Year and Occupation

End of FY	WG/Tech	S & E	Prof. Adm.	Clerical	Total
1981	10.5	12.8	11.8	5.3	11.4
1982	10.8	12.9	11.8	5.4	11.5
1983	10.9	13.0	11.9	5.4	11.6
1984	10.8	12.9	11.9	5.2	11.4
1985	10.9	12.8	11.8	5.3	11.4
1986	10.9	12.8	11.9	5.4	11.5
1987	10.9	12.8	11.9	5.5	11.5
1988	11.0	12.9	11.8	5.7	11.6
1989	10.9	12.9	11.7	5.7	11.7

Format: GRDBYYEAR Data as of 092289

KEYPOSMI

PAGE 1

(DIR/DIV)
Key Position Management Indicators
Division Comparison
Full-Time Permanent Employees

Directorate: A

Div	Total	Average Grade	GS/GM-11/15	Supv	Non-Supv GS/GM-14/15
AA	9	3.44	1	3	1
AB	2	4.50	0	1	0
AC	6	6.83	1	1	0
AH	62	9.61	34	9	1
AJ	6	11.67	5	1	0
AL	15	11.73	11	4	6
AP	34	10.41	24	6	0
AT	2	3.50	0	0	0
	136	61.69	76	25	8

KEYPOSMI continued

PAGE 2

(DIR/DIV)
Key Position Management Indicators
Division Comparison
Full-Time Permanent Employees

Directorate: B

Div	Total	Average Grade	GS/GM-11/15	Supv	Non-Supv GS/GM-14/15
BA	8	7.63	3	2	1
BB	4	10.00	2	1	1
BC	26	11.50	21	4	0
BD	24	10.67	15	3	0
BE	27	10.81	18	4	0
BF	18	11.67	14	3	0
BG	54	10.67	35	6	0
BH	7	12.43	7	1	0
BL	5	12.20	4	2	0
BN	21	12.10	17	4	0
BO	7	12.57	7	1	0
BQ	11	10.73	8	1	0
BR	62	8.55	26	8	0
BS	6	12.50	5	1	0
BT	5	11.20	4	1	0
BU	6	11.67	5	1	0
BV	27	11.44	22	5	0
BW	23	11.61	19	4	0
BX	31	11.52	25	6	0
BY	10	10.70	6	2	1
	382	222.17	263	60	3

Format: KEYPOSMI Data as of 092289

MINBYYR

Count of Employees by Year and Minority Group

	Nonmin Male		Nonmin Female		Min. Male		Min. Female		
FY End o	No.	%	No.	%	No.	%	No.	%	Total
1981	2,389	70.7	559	16.5	272	8.1	159	4.7	3,379
1982	2,299	70.4	549	16.8	263	8.1	155	4.8	3,266
1983	2,240	69.6	559	17.4	257	8.0	163	5.1	3,219
1984	2,133	66.2	634	19.7	268	8.3	189	5.9	3,224
1985	2,142	64.3	715	21.5	278	8.4	195	5.9	3,330
1986	2,061	63.1	731	22.4	276	8.5	199	6.1	3,267
1987	2,057	61.5	781	23.3	294	8.8	215	6.4	3,347
1988	2,062	60.2	828	24.2	311	9.1	222	6.5	3,423
1989	2,097	59.4	872	24.7	333	9.4	231	6.5	3,533

Format: MINBYYR Data as of 092289

MINCNTDIR

Count of Employees By Organization and Minority Group

	Nonmin Male		Nonmin Femal		Min. Male		Min. Female		
	No.	%	No.	%	No.	%	No.	%	Total
Dir/Staff (A)	53	39.0	56	41.2	8	5.9	19	14.0	136
Admin. (B)	150	39.3	166	43.5	25	6.5	41	10.7	382
Flt. Crew Ops. (C)	92	57.9	47	29.6	11	6.9	9	5.7	159
Mission Ops. (D)	310	61.1	128	25.3	39	7.7	30	5.9	507
Engineering (E)	476	67.8	111	15.8	86	12.3	29	4.1	702
Mission Supp. (F)	213	63.8	69	20.7	32	9.6	20	6.0	334
NSTS Program Office (G)	8	30.8	11	42.3	2	7.7	5	19.2	26
New Initiatives Office (I)	63	71.6	19	21.6	4	4.6	2	2.3	88
Center Ops. (J)	169	50.0	96	28.4	42	12.4	31	9.2	338
Space Station Proj Ofc (K)	66	64.1	24	23.3	7	6.8	6	5.8	103
Space Shuttle Proj Ofc (M)	5	83.3	1	16.7	0	0.0	0	0.0	6
SR & QA (N)	102	61.1	20	12.0	32	19.2	13	7.8	167
WSTF (R)	34	66.7	9	17.7	5	9.8	3	5.9	51
Space & Life Sciences (S)	164	66.4	56	22.7	17	6.9	10	4.1	247
NSTS Integration & Ope (T)	60	69.8	17	19.8	5	5.8	4	4.7	86
Orb. & GFE Proj. Ofc. (V)	84	65.1	26	20.2	11	8.5	8	6.2	129
NSTS Engineering Integ (W)	48	66.7	16	22.2	7	9.7	1	1.4	72
Total	2,097	59.4	872	24.7	333	9.4	231	6.5	3533

Format: MINCNTDIR Data as of 092289

OCCBYYEAR

Count of Employees by Occupation and Year

End of FY	W/G Tech No.	W/G Tech %	S & E No.	S & E %	Prof Adm No.	Prof Adm %	Clerical No.	Clerical %	Tot
1981	297	8.8	2,157	63.8	439	13.0	487	14.4	3,380
1982	281	8.6	2,084	63.8	452	13.8	449	13.8	3,266
1983	259	8.1	2,070	64.3	456	14.2	434	13.5	3,219
1984	256	7.9	2,012	62.4	468	14.5	488	15.1	3,224
1985	243	7.3	2,086	62.6	503	15.1	498	15.0	3,330
1986	227	7.0	2,069	63.3	490	15.0	481	14.7	3,267
1987	212	6.3	2,134	63.8	515	15.4	486	14.5	3,347
1988	206	6.0	2,210	64.6	542	15.8	465	13.6	3,423
1989	206	5.8	2,307	65.3	570	16.1	450	12.7	3,533

Format: OCCBYYEAR Data as of 092289

OPTRETBYFY

Count of Optional Retirement Eligibles by Fiscal Year

End of FY	No.Eligible	Total Workforce	% Workforce
1983	225	3,219	7.0
1984	229	3,224	7.1
1985	246	3,330	7.4
1986	240	3,267	7.3
1987	275	3,347	8.2
1988	271	3,423	7.9
1989	283	3,533	8.0

Format: OPTRETBYFY Data as of 092289

OPTRTBYDIR

Count of Optional Retirement Eligibles by Directorate

	Elig. 09/30/89		Elig. 09/30/92		Elig. 09/30/95	
	No.	%	No.	%	No.	%
Dir/Staff (A)	15	11.0	24	17.6	42	30.9
Admin. (B)	32	8.4	70	18.3	111	29.1
Flt. Crew Ops. (C)	15	9.4	25	15.7	31	19.5
Mission Ops. (D)	14	2.8	36	7.1	76	15.0
Engineering (E)	47	6.7	139	19.8	219	31.2
Mission Supp. (F)	18	5.4	51	15.3	102	30.5
NSTS Program Office (G)	1	3.8	4	15.4	10	38.5
New Initiatives Office (I)	14	15.9	20	22.7	37	42.0
Center Ops. (J)	41	12.1	70	20.7	95	28.1
Space Station Proj Ofc (K)	5	4.9	18	17.5	38	36.9
Space Shuttle Proj Ofc (M)	2	33.3	2	33.3	4	66.7
SR & QA (N)	14	8.4	33	19.8	48	28.7
WSTF (R)	2	3.9	7	13.7	8	15.7
Space & Life Sciences (S)	25	10.1	55	22.3	100	40.5
NSTS Integration & Ope (T)	7	8.1	26	30.2	40	46.5
Orb. & GFE Proj. Ofc. (V)	26	20.2	47	36.4	68	52.7
NSTS Engineering Integ (W)	5	6.9	10	13.9	22	30.6
Total	283	8.0	637	18.0	1,051	29.7

Format: OPTRTBYDIR Data as of 092289

PROFEDUC

Education of Professional Employees

	Number	Percent
No Degree	181	6.3
Bachelors	1,871	65.0
Masters	641	22.3
Doctorate	184	6.4
Total	2,877	100.0

Format: PROFEDUC Data as of 092289

JSCMIS

MIDSE Interface

Appendix II.

Plan vs Actual Cost

Standard Reports from PLANACT Application

Space Business Research Center

UHCL/RICIS

Representative Samples of Standard Reports from Application PLANACT

COSTBYDIR

JSC DIRECT COST BY DIRECTORATE
THROUGH THE END OF JAN 90

DIRECTORATE		PLAN	ACTUAL	DELTA
DIRECTOR & STAFF	A	869	1253	384
ADMINISTRATION	B	2171	2751	580
FLIGHT CREW OPS	C	22115	21546	-569
MISSION OPERATIONS	D	82063	81703	-360
ENGINEERING	E	59210	55751	-3459
MISSION SUPPORT	F	76023	66369	-9654
NSTS PROGRAM OFC	G	76209	67246	-8963
NEW INITIATIVES OFF	I	9559	10563	1004
CENTER OPERATIONS	J	24643	24026	-617
SPACE STATION PROJ	K	140957	132212	-8745
SR&QA	N	9530	10226	696
WHITE SANDS	R	9622	9121	-501
SPACE & LIFE SCIENCE	S	29724	25874	-3850
STS ORBITER & GFE	V	246337	264536	18199
		789032	773177	-15855

Format: COSTBYDIR Data as of 013190

COSTBYHQ

JSC DIRECT COST BY MAJOR PROGRAM
THROUGH THE END OF JAN 90

Program	Plan	Actual	Delta
OFFICE SPACE FLIGHT	530253	534767	4514
OFFICE SPACE STATION	189115	171950	-17165
SPACE SCIENCE & APPL	20664	17796	-2868
AERO & SPACE TECH	4662	3389	-1273
OFFICE OF MANAGEMENT	31239	30840	-399
PROGRAM MISSION SUPT	10694	8551	-2143
MISCELLANEOUS OFFICE	2405	5884	3479
	789032	773177	-15855

Format: COSTBYHQ Data as of 013190

COSTBYORG

JSC Direct Cost by Division
THROUGH THE END OF JAN 90

Division		Plan	Actual	Delta
DIRECTOR	AA	0	4	4
PERSONNEL	AH	69	29	-40
EQUAL OPP PROGRAMS	AJ	64	3	-61
LEGAL OFFICE	AL	15	30	15
PUBLIC AFFAIRS	AP	721	1187	466
*TOTAL DIRECTOR & STAFF		869	1253	384
PROCUREMENT SUPPORT	BD	166	146	-20
OFF OF COMPTROLLER	BL	68	179	111
CENTRAL BUDGET OFC	BN	215	650	435
BUSINESS MGMT OFC	BP	0	0	0
FINANCIAL MGMT DIV	BR	1548	1531	-17
S.S. PROJECT CTL OFC	BX	0	36	36
MGMT ANALYSIS OFC	BY	174	209	35
*TOTAL ADMINISTRATION		2171	2751	580
DIRECTOR, FCOD	CA	1642	1184	-458
ASTRONAUT OFFICE	CB	36	49	13
AIRCRAFT OPERATIONS	CC	20437	19210	-1227
N/A	CW	0	1103	1103
*TOTAL FLIGHT CREW OPS		2115	21546	-569
DIRECTOR, MOD	DA	55097	56289	1192
FACILITY & SUPPT SYS	DC	3891	2563	-1328
SYSTEMS DIVISION	DF	4030	4975	945
TRAINING DIVISION	DG	2603	2643	40
OPERATIONS DIVISION	DH	3175	2996	-179
FLT DESIGN & DYNAMIC	DM	10370	9483	-887
RECONFIGURATION MGMT	DP	1341	1205	-136
S.S. MISSION OPS OFC	DS	1556	1549	-7
*TOTAL MISSION OPERATIONS		2063	81703	-360
DIRECTOR, ENGINEER	EA	15976	15362	-614
PROG ENGINEERING OFC	EB	1104	996	-108
CREW & THERMAL SYS	EC	11215	9680	-1535
ADVANCED PROGRAMS	ED	1725	1855	130
TRACKING & COMMUN	EE	7823	9397	1574
SYS DEV & SIMULATION	EF	5544	5109	-435

COSTBYORG continued

AVIONICS SYSTEMS	EH	7559	6874	-685
PROPULSION & POWER	EP	3171	2021	-1150
STRUCTURES & MECH	ES	5093	4462	-631
N/A	EW	0	-5	-5
FLIGHT PROJECT ENGR	EX	0	0	0
*TOTAL ENGINEERING		9210	55751	-3459
DIRECTOR, MSD	FA	0	40	40
DP SYSTEMS DIVISION	FD	15857	14300	-1557

Format: COSTBYORG Data as of 013190

PAGE 2
JSC Direct Cost by Division
THROUGH THE END OF JAN 90

Division		Plan	Actual	Delta
N/A	FE	0	0	0
MISSION PLAN & ANAL	FM	7767	7193	-574
SPACECRAFT SOFTWARE	FR	24786	23265	-1521
SYSTEMS DEVELOPMENT	FS	27613	21571	-6042
*TOTAL MISSION SUPPORT		6023	66369	-9654
NSTS PROGRAM OFC	G	76209	64259	-11950
NSTS PROG BUDGET OFC	GT	0	2987	2987
*TOTAL NSTS PROGRAM OFC		6209	67246	-8963
DIRECTOR, NIO	IA	9559	8383	-1176
LUNAR/MARS EXPLOR	IZ	0	2180	2180
*TOTAL NEW INITIATIVES OFF		9559	10563	1004
DIRECTOR, COD	JA	150	2	-148
FACILITIES DEVELOP	JD	1779	1570	-209
LOGISTICS DIVISION	JF	4302	4775	473
TECHNICAL SERVICES	JH	914	884	-30
PLANT ENGINEERING	JJ	10745	11734	989
PHOTO & TV TECH DIV	JL	3136	2913	-223
MANAGEMENT SERVICES	JM	2710	1241	-1469
SECURITY OFFICE	JS	907	907	0
*TOTAL CENTER OPERATIONS		4643	24026	-617
SPACE STATION PROJ	K	0	0	0
SPACE STATION MGMT	KA	134575	132212	-2363

COSTBYORG continued

MANUFACTURING & TEST	KD	0	0	0
S.S. MGMT & INTEG	KM	5263	0	-5263
S.S. OPNS INTEG OFC	KO	1119	0	-1119
*TOTAL SPACE STATION	PROJ	0957	132212	-8745
SR&QA	N	9530	10226	696
DIRECTOR, SR&QA	NA	0	0	0
*TOTAL SR&QA		9530	10226	696
WHITE SANDS	R	9622	9121	-501
SPACE & LIFE SCI MGT	SA	1228	-1974	-3202
	SC	0	0	0
MEDICAL SCIENCES DIV	SD	9715	8541	-1174
LIFE SCI PROJ DIV	SE	4866	3547	-1319
SOLAR SYS EXPLOR DIV	SN	6411	5590	-821
MAN-SYSTEMS DIVISION	SP	7504	10170	2666
*TOTAL SPACE & LIFE SCIENCE		9724	25874	-3850

Format: COSTBYORG Data as of 013190

PAGE 3
JSC Direct Cost by Division
THROUGH THE END OF JAN 90

Division		Plan	Actual	Delta
STS ORBITER & GFE	V	246337	264536	18199
		789032	773177	-15855

Format: COSTBYORG Data as of 013190

COSTBYPROJ

PAGE 1
JSC Direct Cost by Project Codes
Through the End of JAN 90

Project	Plan	Actual	Delta
039	0	-14	-14
071	1722	1933	211
072	5505	4748	-757
073	21002	20348	-654
075	3010	3825	815
106	6341	6020	-321
107	225	646	421
141	10	177	167
142	540	444	-96
151	7	83	76
152	3342	3092	-250
157	0	-5	-5
186	0	124	124
196	16	1	-15
199	4124	2696	-1428
307	156	209	53
309	0	76	76
315	0	1	1
316	0	29	29
323	0	55	55
324	1165	1828	663
326	534	2141	1607
340	0	22	22
348	0	14	14
420	5643	4211	-1432
421	0	0	0
422	100	67	-33
423	0	0	0
432	0	8	8
442	20	17	-3
450	320	459	139
471	101	167	66
472	163096	151377	-11719
473	141	211	70
475	14527	8588	-5939
476	9883	10247	364
480	0	4	4
481	38	37	-1
482	6	-169	-175
483	25	-2	-27
484	0	0	0
486	747	411	-336

COSTBYPROJ continued

487	20	101	81
488	531	978	447
506	3087	2154	-933
549	116	164	48
550	1427	1198	-229
551	56389	62646	6257
558	0	65	65
560	37933	35201	-2732
568	18623	17867	-756
569	208181	201420	-6761

Format: COSTBYPROJ Data as of 013190

PAGE 2
JSC Direct Cost by Project Codes
Through the End of JAN 90

Project	Plan	Actual	Delta
571	149982	164675	14693
590	147	72	-75
591	964	934	-30
592	348	65	-283
637	0	888	888
650	100	20	-80
665	0	0	0
674	40	12	-28
677	0	4	4
691	0	0	0
694	380	219	-161
805	6	122	116
902	1044	1234	190
906	3917	3356	-561
915	2231	1790	-441
926	1918	2119	201
928	10917	7821	-3096
930	3273	1821	-1452
951	23122	22762	-360
952	5416	5261	-155
953	5729	5490	-239
969	0	0	0
977	151	49	-102
986	0	-8	-8
992	10694	8551	-2143
	789032	773177	-15855

Format: COSTBYPROJ Data as of 013190

COSTBYSYS

JSC Direct Cost by Project & System Codes
Through the End of JAN 90

Project	System	Plan	Actual	Delta
039	00	0	-14	-14
071	17	916	1149	233
	18	806	784	-22
072	28	5202	4288	-914
	29	263	288	25
	36	40	172	132
073	36	18192	17804	-388
	37	2810	2544	-266
075	01	3010	3825	815
106	10	2014	1413	-601
	20	633	417	-216
	30	3074	3646	572
	40	620	544	-76
107	20	225	646	421
141	20	10	165	155
	30	0	12	12
142	20	0	17	17
	60	0	10	10
	80	540	417	-123
151	01	7	8	1
	20	0	75	75
152	11	447	177	-270
	12	347	257	-90
	13	373	293	-80
	14	548	602	54
	15	415	712	297
	17	468	361	-107
	19	150	186	36
	20	370	285	-85
	30	224	219	-5
	85	0	0	0
157	01	0	-5	-5
186	30	0	124	124
196	41	16	1	-15
199	02	40	97	57
	04	400	296	-104
	06	334	245	-89
	08	40	5	-35
	12	55	114	59
	13	0	31	31
	14	120	181	61
	16	450	515	65
	18	200	142	-58

COSTBYSYS continued

21	0	36	36
22	20	78	58
26	240	43	-197
28	40	0	-40
40	0	16	16
52	30	53	23
61	100	161	61
70	90	215	125
80	160	12	-148

CSTBYCONT

PAGE 1
JSC DIRECT COST BY CONTRACTOR
THROUGH THE END OF JAN 90

CONTRACTOR		PLAN	ACTUAL	DELTA
AEROJET TECH SYS	AE	260	195	-65
ALPHA BLDG CORP	LT	1344	1775	431
ANCHOR INC	FF	255	244	-11
ASI UNIVERSAL	BR	253	233	-20
BARRIOS	LM	4450	4454	4
BOEING	FG	7715	8931	1216
BROWN & ROOT	LW	787	735	-52
CSC/MOSC	LK	17435	11678	-5757
DMS - CUSTODIAL	MG	895	948	53
DMS - GROUNDS	MD	204	202	-2
DRAPER LAB	AD	2692	3816	1124
DUAL & ASSOC.	DU	124	201	77
ENG SPPT CONTR	ES	51760	48797	-2963
FEPC	FE	9865	11179	1314
FORD AEROSPACE	LF	8434	10372	1938
FORD/MSC	MS	4207	504	-3703
GENERAL ELEC	AR	8225	5485	-2740
GHG CORP	GH	478	440	-38
HAMILTON STD	AH	9460	9309	-151
IBM	FA	9663	9892	229
IBM-PRIME	AJ	13083	12737	-346
INTELLICORP, INC	IT	0	2	2
INTERMETRICS	AI	1996	1863	-133
JEFFERSON ASSOC	LD	1083	942	-141
JOHNSON ENGR	EE	4199	3937	-262
KELSEY SEYBOLD	LJ	1075	1195	120
KRUG INTERNTL	LA	6518	5058	-1460
LINK	LO	1456	948	-508
LINK/TSC	TS	4950	3935	-1015
LOCKHEED	LB	9151	8735	-416
LOCKHEED-WSTF	FP	8754	8502	-252
MASON HANGER	LL	907	907	0
MATSCO	AM	0	0	0
MCD/DOUGLAS	FX	82	0	-82
MCD/DOUGLAS-AASC	FD	8625	8747	122
MCD/DOUGLAS-WP2	AK	134459	131650	-2809
MEDIA	MA	440	819	379
MITRE	MT	4157	3858	-299
NORTHROP W/W A/C	LC	3862	6038	2176
OMNIPLAN	LN	2045	1284	-761
OTHER		80284	86495	6211

CSTBYCONT continued

OTHER - PRIME	AZ	685	0	-685
OTHER - SUPPORT	ZZ	2675	0	-2675
OUTSIDE FAB.	OF	156	452	296
PAN AM (M&O)	LX	5441	5565	124
PEAT MARWICK	PM	0	162	162
PIONEER	FC	1545	1832	287
RCA	AF	0	76	76
ROCKWELL - TB	TB	151	11	-140
ROCKWELL-OV	AB	149749	162954	13205
ROCKWELL-SD	AA	111504	95262	-16242
ROTHE	GS	802	713	-89

Format: CSTBYCONT Data as of 013190

PAGE 2
JSC DIRECT COST BY CONTRACTOR
THROUGH THE END OF JAN 90

CONTRACTOR		PLAN	ACTUAL	DELTA
RSOC/STSOC	RS	86428	85361	-1067
SPACE TECH	FW	145	-1	-146
STATION-OPS	SO	96	0	-96
STELLACOM INC	LV	1994	1780	-214
TECHNICOLOR	GW	1191	1133	-58
TRW	AT	4	0	-4
W DE Y	LY	70	86	16
W.D. SERVICES	DR	4	0	-4
WEBB, MURRAY	MI	760	749	-11
		789032	773177	-15855

Format: CSTBYCONT Data as of 013190

SUMDCSTALL

PAGE 1
JOHNSON SPACE CENTER
SUMMARY OF DIRECT COST ONLY
AS OF JAN 90

HQ OFFICE	PROJ	Planned Cost	Actual Cost
OFFICE SPACE FLIGHT	550	1427	1198
	551	56389	62646
	558	0	65
	560	37933	35201
	568	18623	17867
	569	208181	201420
	571	149982	164675
	902	1044	1234
	906	3917	3356
	915	2231	1790
	926	1918	2119
	928	10917	7821
	930	3273	1821
	951	23122	22762
	952	5416	5261
	953	5729	5490
	969	0	0
	977	151	49
	986	0	-8
*TOTAL OFFICE SPACE FLIGHT		530253	534767
OFFICE SPACE STATION	471	101	167
	472	163096	151377
	473	141	211
	475	14527	8588
	476	9883	10247
	480	0	4
	481	38	37
	482	6	-169
	483	25	-2
	484	0	0
	486	747	411
	487	20	101
	488	531	978
*TOTAL OFFICE SPACE STATION		189115	171950

SUMDCSTALL continued

SPACE SCIENCE & APPL	106	6341	6020
	107	225	646
	151	7	83
	152	3342	3092
	157	0	-5
	186	0	124
	196	16	1
	199	4124	2696

Format: SUMDCSTALL Data as of 013190

PAGE 2
JOHNSON SPACE CENTER
SUMMARY OF DIRECT COST ONLY
AS OF JAN 90

HQ OFFICE	PROJ	Planned Cost	Actual Cost
SPACE SCIENCE & APPL	420	5643	4211
	421	0	0
	422	100	67
	423	0	0
	432	0	8
	442	20	17
	450	320	459
	650	100	20
	665	0	0
	674	40	12
	677	0	4
	691	0	0
	694	380	219
	805	6	122
*TOTAL SPACE SCIENCE & APPL		20664	17796
AERO & SPACE TECH	506	3087	2154
	549	116	164
	590	147	72
	591	964	934
	592	348	65
*TOTAL AERO & SPACE TECH		4662	3389
OFFICE OF MANAGEMENT	039	0	-14

SUMDCSTALL continued

	071	1722	1933
	072	5505	4748
	073	21002	20348
	075	3010	3825
*TOTAL OFFICE OF MANAGEMENT		31239	30840
PROGRAM MISSION SUPT	992	10694	8551
COMMERCIAL PROGRAMS	141	10	177
	142	540	444
	324	1165	1828
	637	0	888
*TOTAL COMMERCIAL PROGRAMS		1715	3337

Format: SUMDCSTALL Data as of 013190

PAGE 3
JOHNSON SPACE CENTER
SUMMARY OF DIRECT COST ONLY
AS OF JAN 90

HQ OFFICE	PROJ	Planned Cost	Actual Cost
MISCELLANEOUS OFFICE	307	156	209
	309	0	76
	315	0	1
	316	0	29
	323	0	55
	326	534	2141
	340	0	22
	348	0	14
*TOTAL MISCELLANEOUS OFFICE		690	2547
		789032	773177

Format: SUMDCSTALL Data as of 013190

SUMDCSTDIR

PAGE 1
JOHNSON SPACE CENTER
SUMMARY OF DIRECT COST BY DIRECTORATE
AS OF JAN 90

DIR	HQ OFFICE	PROJ	Planned Cost	Actual Cost
DIRECTOR & STAFF	OFFICE SPACE FLIGHT	558	0	0
		569	0	4
		928	0	0
*TOTAL OFFICE SPACE FLIGHT			0	4
	OFFICE OF MANAGEMENT	075	779	1235
	PROGRAM MISSION SUPT	992	90	0
	MISCELLANEOUS OFFICE	348	0	14
*TOTAL DIRECTOR & STAFF			869	1253
ADMINISTRATION	OFFICE SPACE FLIGHT	569	0	0
	OFFICE SPACE STATION	472	0	-20
		476	0	-30
*TOTAL OFFICE SPACE STATION			0	-50
	SPACE SCIENCE & APPL	422	0	35
	AERO & SPACE TECH	506	0	0
	OFFICE OF MANAGEMENT	039	0	-14
		073	0	25
		075	2171	2550
*TOTAL OFFICE OF MANAGEMENT			2171	2561
	PROGRAM MISSION SUPT	992	0	128
	MISCELLANEOUS OFFICE	307	0	1
		309	0	76
*TOTAL MISCELLANEOUS OFFICE			0	77

SUMDCSTDIR continued

*TOTAL ADMINISTRATION			2171	2751
FLIGHT CREW OPS	OFFICE SPACE FLIGHT	551	0	0
		560	8126	8660
		569	13158	12398
		571	65	29
		928	124	-150