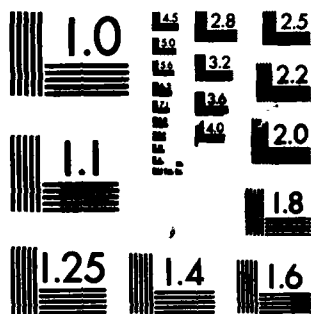


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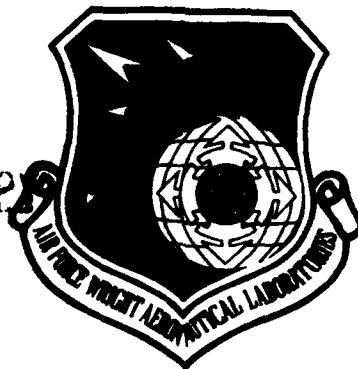


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**AFWAL-TR-86-4006
Volume VIII
Part 19**

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**INTEGRATED INFORMATION
SUPPORT SYSTEM (IISS)
Volume VIII - User Interface Subsystem
Part 19 - Forms Driven Form Editor Unit Test Plan**

**General Electric Company
Production Resources Consulting
One River Road
Schenectady, New York 12345**

**Final Report for Period 22 September 1980 - 31 July 1985
November 1985**

Approved for public release; distribution is unlimited.

PREPARED FOR:

**MATERIALS LABORATORY
AIR FORCE WRIGHT AERONAUTICAL LABORATORIES
AIR FORCE SYSTEMS COMMAND
WRIGHT-PATTERSON AFB, OH 45433-6533**

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Unclassified

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SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE

A182 587

1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS	
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution is unlimited.	
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE			
4. PERFORMING ORGANIZATION REPORT NUMBER(S)		5. MONITORING ORGANIZATION REPORT NUMBER(S) AFVAL-TR-86-4006 Vol VIII, Part 19	
6a. NAME OF PERFORMING ORGANIZATION General Electric Company Production Resources Consulting	6b. OFFICE SYMBOL (If applicable) AFVAL/MLTC	7a. NAME OF MONITORING ORGANIZATION AFVAL/MLTC	
6c. ADDRESS (City, State and ZIP Code) 1 River Road Schenectady, NY 12345		7b. ADDRESS (City, State and ZIP Code) WPAFB, OH 45433-6535	
8a. NAME OF FUNDING/SPONSORING ORGANIZATION Materials Laboratory Air Force Systems Command, USAF	8b. OFFICE SYMBOL (If applicable) AFVAL/MLTC	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER F33615-80-C-5155	
8c. ADDRESS (City, State and ZIP Code) Wright-Patterson AFB, Ohio 45433		10. SOURCE OF FUNDING NOS.	
		PROGRAM ELEMENT NO. 78011F	TASK NO. 62
		PROJECT NO. 7500	WORK UNIT NO. 01
11. TITLE (Include Security Classification) (See Reverse)			
12. PERSONAL AUTHOR(S) Wehrman, Al and Morenc, Carol and Robie, Penny			
13a. TYPE OF REPORT Final Technical Report	13b. TIME COVERED 22 Sept 1980 - 31 July 1985	14. DATE OF REPORT (Yr., Mo., Day) 1985 November	15. PAGE COUNT 7
16. SUPPLEMENTARY NOTATION ICAN Project Priority 6201		The computer software contained herein are theoretical and/or references that in no way reflect Air Force-owned or -developed computer software.	
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB GR.	
1308	0903		
19. ABSTRACT (Continue on reverse if necessary and identify by block number)			
→ This unit test plan establishes the methodology and procedures used to adequately test the capabilities of the computer program identified as the Forms Driven Form Editor (FDFE). The FDFE interfaces directly with users as an application which uses the FP via the Network Transaction Manager. Physical terminals are assumed to have video display, a textual keyboard, four cursor positioning keys or key sequences, a help key or key sequence, a message key, an entry key, a quit key and four other keys to be used by the FDFE for special processing. ←			
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT UNCLASSIFIED/UNLIMITED ☒ SAME AS RPT. ☐ DTIC USERS ☐		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL David L. Jodson		22b. TELEPHONE NUMBER (Include Area Code) 615-255-8876	22c. OFFICE SYMBOL AFVAL/MLTC

DD FORM 1473, 83 APR

EDITION OF 1 JAN 75 IS OBSOLETE.

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE

11. Title

Integrated Information Support System (IISS)
Vol VIII - User Interface Subsystem
Part 19 - Forms Driven Form Editor Unit Test Plan

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Distribution/	
Availability Codes	
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PREFACE

This unit test plan covers the work performed under Air Force Contract F33615-80-C-5155 (ICAM Project 6201). This contract is sponsored by the Materials Laboratory, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio. It was administered under the technical direction of Mr. Gerald C. Shumaker, ICAM Program Manager, Manufacturing Technology Division, through Project Manager, Mr. David Judson. The Prime Contractor was Production Resources Consulting of the General Electric Company, Schenectady, New York, under the direction of Mr. Allan Rubenstein. The General Electric Project Manager was Mr. Myron Hurlbut of Industrial Automation Systems Department, Albany, New York.

Certain work aimed at improving Test Bed Technology has been performed by other contracts with Project 6201 performing integrating functions. This work consisted of enhancements to Test Bed software and establishment and operation of Test Bed hardware and communications for developers and other users. Documentation relating to the Test Bed from all of these contractors and projects have been integrated under Project 6201 for publication and treatment as an integrated set of documents. The particular contributors to each document are noted on the Report Documentation Page (DD1473). A listing and description of the entire project documentation system and how they are related is contained in document FTR620100001, Project Overview.

The subcontractors and their contributing activities were as follows:

TASK 4.2

Subcontractors

Role

Boeing Military Aircraft
Company (EMAC)

Reviewer

D. Appleton Company
(DACOM)

Responsible for IDEF support,
state-of-the-art literature
search

General Dynamics/
Ft. Worth

Responsible for factory view
function and information
models

<u>Subcontractors</u>	<u>Role</u>
Illinois Institute of Technology	Responsible for factory view function research (IITRI) and information models of small and medium-size business
North American Rockwell	Reviewer
Northrop Corporation	Responsible for factory view function and information models
Pritsker and Associates	Responsible for IDEF2 support
SofTech	Responsible for IDEFO support

TASKS 4.3 - 4.9 (TEST BED)

<u>Subcontractors</u>	<u>Role</u>
Boeing Military Aircraft Company (BMAC)	Responsible for consultation on applications of the technology and on IBM computer technology.
Computer Technology Associates (CTA)	Assisted in the areas of communications systems, system design and integration methodology, and design of the Network Transaction Manager.
Control Data Corporation (CDC)	Responsible for the Common Data Model (CDM) implementation and part of the CDM design (shared with DACOM).
D. Appleton Company (DACOM)	Responsible for the overall CDM Subsystem design integration and test plan, as well as part of the design of the CDM (shared with CDC). DACOM also developed the Integration Methodology and did the schema mappings for the Application Subsystems.

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Subcontractors

Role

Digital Equipment
Corporation (DEC)

Consulting and support of the
performance testing and on DEC
software and computer systems
operation.

McDonnell Douglas
Automation Company
(McAuto)

Responsible for the support and
enhancements to the Network
Transaction Manager Subsystem
during 1984/1985 period.

On-Line Software
International (OSI)

Responsible for programming the
Communications Subsystem on the
IBM and for consulting on the
IBM.

Rath and Strong Systems
Products (RSSP) (In 1985
became McCormack & Dodge)

Responsible for assistance in
the implementation and use of
the MRP II package (PIOS) that
they supplied.

SofTech, Inc.

Responsible for the design and
implementation of the Network
Transaction Manager (NTM) in
1981/1984 period.

Software Performance
Engineering (SPE)

Responsible for directing the
work on performance evaluation
and analysis.

Structural Dynamics
Research Corporation
(SDRC)

Responsible for the User
Interface and Virtual Terminal
Interface Subsystems.

Subcontractors and other prime contractors under other
projects who have contributed to Test Bed Technology, their
contributing activities and responsible projects are as follows:

Subcontractors

Role

General Dynamics/
Ft. Worth

Responsible for
factory view

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<u>Contractors</u>	<u>ICAM Project</u>	<u>Contributing Activities</u>
Boeing Military Aircraft Company (BMAC)	1701, 2201, 2202	Enhancements for IBM node use. Technology Transfer to Integrated Sheet Metal Center (ISMC)
Control Data Corporation (CDC)	1502, 1701	IISS enhancements to Common Data Model Processor (CDMP)
D. Appleton Company (DACOM)	1502	IISS enhancements to Integration Methodology
General Electric	1502	Operation of the Test Bed and communications equipment.
Hughes Aircraft Company (HAC)	1701	Test Bed enhancements
Structural Dynamics Research Corporation (SDRC)	1502, 1701, 1703	IISS enhancements to User Interface/Virtual Terminal Interface (UI/VTI)
Systran	1502	Test Bed enhancements. Operation of Test Bed.

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SECTION 1

GENERAL

1.1 Purpose

This unit test plan establishes the methodology and procedures used to adequately test the capabilities of the computer program identified as the Forms Driven Form Editor known in this document as the FDFE. The FDFE is one configuration item of the Integrated Information Support System (IISS) User Interface (UI).

1.2 Project References

- [1] Systran, ICAM Documentation Standards, IDS150120000C, 15 September 1983.
- [2] Structural Dynamics Research Corporation, Form Editor User Manual, UM 620144400B, 1 November 1985.
- [3] Structural Dynamics Research Corporation, Forms Driven Form Editor Development Specification, DS 620144402B, 1 November 1985.
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- [6] Structural Dynamics Research Corporation, Application Interface Unit Test Plan, UTP620144700, 1 November 1985.
- [7] Structural Dynamics Research Corporation, Virtual Terminal Interface Unit Test Plan, UTP620144300, 1 November 1985.
- [8] Structural Dynamics Research Corporation, Forms Language Compiler Unit Test Plan, UTP620144401, 1 November 1985.

- [9] Structural Dynamics Research Corporation, User Interface Services Unit Test Plan, UTP620144100 , 1 November 1985.
- [10] Structural Dynamics Research Corporation, Report Writer Unit Test Plan, UTP620144501 , 1 November 1985.
- [11] Structural Dynamics Research Corporation, Rapid Application Generator Unit Test Plan, UTP620144502, 1 November 1985.
- [12] Structural Dynamics Research Corporation, Text Editor Unit Test Plan, UTP620144600, 1 November 1985.

1.3 Terms and Abbreviations

American Standard Code for Information Interchange: (ASCII), the character set defined by ANSI X3.4 and used by most computer vendors.

Application Interface: (AI), subset of the IISS User Interface that consists of the callable routines that are linked with applications that use the Form Processor or Virtual Terminal. The AI enables applications to be hosted on computers other than the host of the User Interface.

Application Process: (AP), a cohesive unit of software that can be initiated as a unit to perform some function or functions.

Attribute: field characteristic such as blinking, highlighted, black, etc. and various other combinations. Background attributes are defined for forms or windows only. Foreground attributes are defined for items. Attributes may be permanent, i.e., they remain the same unless changed by the application program, or they may be temporary, i.e., they remain in effect until the window is redisplayed.

Device Drivers: (DD), software modules written to handle I/O for a specific kind of terminal. The modules map terminal specific commands and data to a neutral format. Device Drivers are part of the UI Virtual Terminal.

Display List: is similar to the open list, except that it contains only those forms that have been added to the screen and are currently displayed on the screen.

Extended Binary Coded Decimal Interchange Code: (EBCDIC), the character set used by a few computer vendors (notably IBM) instead of ASCII.

Field: two-dimensional space on a terminal screen.

Form: structured view which may be imposed on windows or other forms. A form is composed of fields. These fields may be defined as forms, items, and windows.

Form Definition: (FD), forms definition language after compilation. It is read at runtime by the Form Processor.

Forms Definition Language: (FDL), the language in which electronic forms are defined.

Forms Driven Form Editor: (FDPE), subset of the FE which consists of a forms driven application used to create Form Definition files interactively.

Form Editor: (FE), subset of the IISS User Interface that is used to create definitions of forms. The FE consists of the Forms Driven Form Editor and the Forms Language Compiler.

Form Hierarchy: a graphic representation of the way in which forms, items and windows are related to their parent form.

Forms Language Compiler: (FLAN), subset of the FE that consists of a batch process that accepts a series of forms definition language statements and produces form definition files as output.

Form Processor: (FP), subset of the IISS User Interface that consists of a set of callable execution time routines available to an application program for form processing.

Form Processor Text Editor: (FPTE), subset of the Form Processor that consists of software modules that provide text editing capabilities to all users of applications that use the Form Processor.

IISS Function Screen: the first screen that is displayed after logon. It allows the user to specify the function he wants to access and the device type and device name on which he is working.

Integrated Information Support System: (IISS), a test computing environment used to investigate, demonstrate and test the concepts of information management and information integration in the context of Aerospace Manufacturing. The IISS addresses the problems of integration of data resident on heterogeneous data bases supported by heterogeneous computers interconnected via a Local Area Network.

Item: non-decomposable area of a form in which hard-coded descriptive text may be placed and the only defined areas where user data may be input/output.

Message: descriptive text which may be returned in the standard message line on the terminal screen. They are used to warn of errors or provide other user information.

Message Line: a line on the terminal screen that is used to display messages.

Network Transaction Manager: (NTM), IISS subsystem that performs the coordination, communication and housekeeping functions required to integrate the Application Processes and System Services resident on the various hosts into a cohesive system.

Open List: a list of all the forms that have been and are currently open for an application process.

Operating System: (OS), software supplied with a computer which allows it to supervise its own operations and manage access to hardware facilities such as memory and peripherals.

Page: instance of forms in windows that are created whenever a form is added to a window.

Paging and Scrolling: a method which allows a form to contain more data than can be displayed with provisions for viewing any portion of the data buffer.

Physical Device: a hardware terminal.

Qualified Name: the name of a form, item or window preceded by the hierarchy path so that it is uniquely identified.

Subform: a form that is used within another form.

User Data: data which is either input by the user or output by the application programs to items.

User Interface: (UI), IISS subsystem that controls the user's terminal and interfaces with the rest of the system. The UI consists of two major subsystems: the User Interface Development System (UIDS) and the User Interface Management System (UIMS).

User Interface Development System: (UIDS), collection of IISS User Interface subsystems that are used by applications programmers as they develop IISS applications. The UIDS includes the Form Editor and the Application Generator.

User Interface Management System: (UIMS), the runtime UI. It consists of the Form Processor, Virtual Terminal, Application Interface, the User Interface Services and the Text Editor.

User Interface Monitor: (UIM), part of the Form Processor that handles messaging between the NTM and the UI. It also provides authorization checks and initiates applications.

User Interface Services: (UIS), subset of the IISS User Interface that consists of a package of routines that aid users in controlling their environment. It includes message management, change password, and application definition services.

User Interface/Virtual Terminal Interface: (UI/VTI), another name for the User Interface.

Virtual Terminal: (VT), subset of the IISS User Interface that performs the interfacing between different terminals and the UI. This is done by defining a specific set of terminal features and protocols which must be supported by the UI software which constitutes the virtual terminal definition. Specific terminals are then mapped against the virtual terminal software by specific software modules written for each type of real terminal supported.

Window: dynamic area of a terminal screen on which predefined forms may be placed at run time.

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Window Manager: a facility which allows the following to be manipulated: size and location of windows, the device on which an application is running, the position of a form within a window. It is part of the Form Processor.

SECTION 2

DEVELOPMENT ACTIVITY

2.1 Statement of Pretest Activity

During system development, the computer programs were tested progressively. Functionality was incrementally tested and as bugs were discovered by this testing, the software was corrected.

Each form used by the FDFE was individually tested. This testing was conducted by the individual program developer in a manual mode. The developer would manually enter data onto the screen and observe the results. Any errors were noted by the developer and corrections to the program were then made after a testing session.

2.2 Pretest Activity Results

Each testing of the forms used in the FDFE application discovered a few minor bugs which were then corrected and retesting proved successful. Testing included exceptional conditions and error conditions for data entered on the forms. The overall test results during development showed no major programming errors. Only minor bugs were discovered and corrected.

SECTION 3

SYSTEM DESCRIPTION

3.1 System Description

The FDFE interfaces directly with users as an application which uses the Form Processor (FP) - via the NTH. Physical terminals are assumed to have video display, a textual keyboard, four cursor positioning keys or key sequences, a help key or key sequence, a message key, an entry key, a quit key and four other keys to be used by the FDFE for special processing (see 5.3). The FDFE must interface with the following software tools: the Forms Processor (FP), the Forms Compiler (FLAN), C language runtime routines and forms storage management. It is used to create or modify FDL files and to create new FD files; it can also be used to delete existing FDL and FD files as well as to rename existing FDL files (see Figure 3-1).

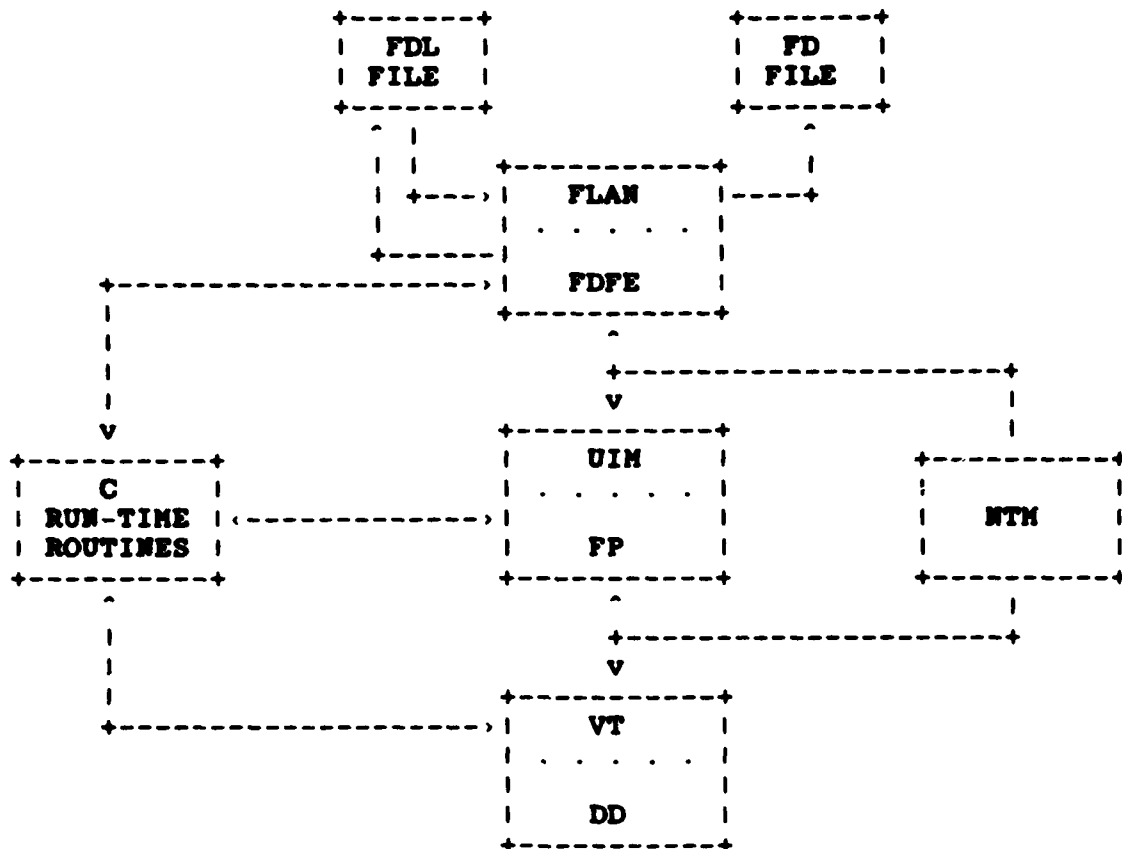


Figure 3-1 Interface Block Diagram

3.2 Testing Schedule

The execution of the FDFE is dependent upon the NTM subsystem of IISS and testing of the FDFE must be done only after the NTM has been successfully tested. Within the UI subsystem, the FDFE uses the PP, VT, AI and FLAN and must be tested only after they have been successfully tested.

3.3 First Location Testing

These tests of the FDFE require the following:

Equipment: Air Force VAX, terminal supported by the VT as listed in the the UI Terminal Operator Guide.

Support Software: The Integrated Information Support System, the Oracle database management system, and C run-time libraries.

Personnel: One integrator familiar with the UIS.

Training: FDFE manuals have been previously provided with the past release.

Deliverables: The FDFE subsystem of the UI.

Test Materials: This test is interactive and can be manually performed as outlined in this test plan. It also could be run as a script file if so desired (see below).

Security considerations: None.

3.4 Subsequent Location Testing

The requirements as listed above need to be met; however, in subsequent testing it may be advantageous to create a script file of the outlined tests and run this saving the output of the test for future comparisons.

SECTION 4

TEST SPECIFICATIONS AND EVALUATIONS

4.1 Test Specification

The following functionality of the FDFE is demonstrated by the test outlined in section 5:

- 1) List Form Language Sources (FDL files)
- 2) List Form Language Objects (FD files)
- 3) Insert a Form Language Source
 - A) List Forms in Forms Language Source
 - B) Insert Form into Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - C) Modify Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - D) Select Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - E) Drop a Form from Forms Language Source
 - F) Write Forms Language Source
 - G) Write and Compile Forms Language Source
 - H) Exit and Write Forms Language Source
 - I) Exit and Write and Compile Forms Language Source
 - J) Exit No Save
- 4) Modify a Form Language Source
 - A) List Forms in Forms Language Source
 - B) Insert Form into Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - C) Modify Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - D) Select Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - E) Drop a Form from Forms Language Source

- F) Write Forms Language Source
- G) Write and Compile Forms Language Source
- H) Exit and Write Forms Language Source
- I) Exit and Write and Compile Forms Language Source
- J) Exit No Save
- 5) Select a Form Language Source
 - A) List Forms in Forms Language Source
 - B) Select Form in Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Form Edit mode
 - C) Exit No Save
- 6) Display Compiled Form Definition
- 7) Copy Form Language Source to New Form Language Source
- 8) Rename Form Language Source to New Form Language Source
- 9) Drop Form Language Source
- 10) Drop Form Language Object
- 11) Exit

Table 4-1 shows the direct correspondence between the test (the steps outlined in Section 5) and the functional requirements as listed in this section. These functions directly correspond to the detailed functional requirements of the Forms Driven Form Editor Development Specification. The '.' indicates the figures which illustrate the testing of the top level functions: insert, modify or select a forms language source file. The '*' indicates the figures which illustrate the testing of specific functions.

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6																										
7																										
8																										
9																										
10																										
11																										

Table 4-1 Matrix mapping FDFE functions with test plan

Key for Table 1:

A - figures: 05-06
B - figures: 07-08
C - figures: 09-34
D - figures: 11-14
E - figures: 15-20
F - figures: 21-32
G - figures: 33-34
H - figures: 35-36
I - figures: 37-63
J - figures: 39-40
K - figures: 41-47
L - figures: 48-53
M - figures: 54-55
N - figures: 56-59
O - figures: 60-61
P - figures: 62-63
Q - figures: 64-76
R - figures: 66-70
S - figures: 71-74
T - figures: 75-76
U - figures: 77-78
V - figures: 79-80
W - figures: 81-82
X - figures: 83-84
Y - figures: 85-86
Z - figure: 87

4.2 Testing Methods and Constraints

The tests as outlined in Section 5 must be followed. The required input is stated for each test. This testing tests the normal mode of operation of these functions and does not completely exercise all the error combinations that a user of the FDFE might create by faulty entry of form field information. These tests have been done, however, through the normal testing done by the developer of these functions. IISSULIB and IISSSLIB should point to default directory. No additional constraints are placed on this unit test besides those listed in Section 3.2 and 3.3 of this unit test plan.

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4.3 Test Progression

The progression of testing of the FDFE is fully outlined in Section 5 of this unit test plan. This progression should be followed exactly to insure the successful testing of this IISS configuration item.

4.4 Test Evaluation

The test results are evaluated by comparing the information returned on the various output screens to that specified as successful for the given test. As outlined below in section 5, each test of FDFE functionality provides an input screen with the required data entry specified and the resulting output for a successful test. To speed up this testing, scripting could be used. If scripting is used, the script file FDFEUTP.SCP and its release 2.0 test saved output FDFEUTP.SAV (Under IISS Configuration Management) should be copied to your test directory. To execute the scripting option type "-RDFEUTP.SCP -SFDFEUTP.SAV" at the "Args" prompt. To compare the results with those obtained by SDRC, compare FDFETST.SAV with FDFEUTP.SAV using the command file DIFFILE.COM (Under IISS Configuration Management). The only differences found should be the date time stamps on the IISS Function Screen (figure 5-3).

SECTION 5

TEST SPECIFICATIONS AND EVALUATIONS

5.1 Test Description

A general description of this unit test was provided in Section 3.

5.2 Test Control

As outlined, this unit test is a manual test which may be done by anyone. The required input data for each function being tested, the resulting successful output and the order of the testing are completely specified below. The test control information is completely described in Section 4.4. Accurate observation of the resulting successful output must be made to ensure the unit test was done properly. As noted in Section 4.4 above scripting may be used instead of the manual test described below.

5.3 Test Procedures

To run the unit test plan in the VAX/VMS environment as outlined below, one must be logged on to an IISS account. The NTM must be up and running and the UI logical names IISSFLIB, IISSULIB, IISSSLIB and IISSMLIB must be set properly at the group level. IISSFLIB points to the directory containing system form definitions (.FD files). IISSULIB points to the directory containing the user's form definitions (.FD files). IISSSLIB points to the directory containing the user's form definition source files (.FDL files). IISSMLIB points to the directory containing error and help messages (.MSG files). To perform this test IISSULIB and IISSSLIB must be pointing to the default directory.

The test of the FDFE application consists of individually testing each function provided by the FDFE. The following keys are generally used to move within forms (using the VT100 terminal as an example): the ENTER key is used to activate all commands; the QUIT key is used to go back to previous activity without taking current action; the TAB key is used to move from field to field within the form; and the arrow keys are used to move within fields. In addition, ESC TAB is a reverse TAB. The only application defined function keys used by the FDFE are: the

function key (PF 15 on a VT100) which when in layout mode is used to transfer control to layout description mode and back again; the function key (PF 12 on a VT100) which when in layout mode is used to move fields around on a form; and two function keys which when in edit field mode or layout description mode are used to go to the previous and the next field on a form (PF 16 and PF 17 respectively on a VT100). See Figure 5-1 for VT100 keypad layout.

PF 1 MODE KEY	PF 2 HELP KEY	PF 3 MESSAGE QUEUE KEY	PF 4 QUIT KEY
PF 5	PF 6	PF 7	PF 8
PF 9	PF 10	PF 11	PF 12 Move fields on form in layout mode
PF 13	PF 14	PF 15 Go to dscpt. mode \ back to layout md	PF 0
PF 16 While in descrpt mode or edit field mode these keys used to scroll through fields on a form PF 16 = , \ PF 17 = .	PF 17	ENTER KEY	

Figure 5-1 Keypad for VT100

The inputs and outputs for each testing are illustrated by examining the following forms.

When this form is correctly completed and the ENTER key is pressed, the following form appears.

5.3.2 Choosing FDFE Function

The FDFE function is accessed through the following FORM:

I I S S T E S T B E D V E R S I O N 2.0			
DATE: __/__/__	TIME:__:__:__	USER ID: _____	ROLE: _____
FUNCTION: _____		DEVICE TYPE: _____	DEVICE NAME: _____
Msg: 0		application	

Figure 5-3 IISS Function Screen

When the form appears, the cursor is located on the line following FUNCTION. The items in the form are summarized below:

- (1) DATE contains the current date. This may not be changed by the user.
- (2) TIME contains the current time. This may not be changed by the user.
- (3) USER ID is the user's identification that was entered in the previous form. This may not be changed by the user.

- (4) **ROLE** is the currently active role and was entered in the previous form. This may be changed at any time.
- (5) **FUNCTION** is the function the user desires to activate. In this case it is the **FDFE** which is activated by typing "SDFDFEZZZZ" into this field.

5.3.3 Testing the FDFE

For a detailed description of how to use the FDFE consult the FDFE User Manual. The following test plan consists of screens with input for the testing of a particular display, followed by the resulting screens. When the FDFE begins the following form is displayed.

FORM DRIVER FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

FORM VALUE	Command	Pic	Par/Prep Name	To/Rev Name	Help
List PBL Source	(LS)				
Insert PBL Source	(IS)				
Modify PBL Source	(MS)				
Select PBL Source	(SS)				
Copy PBL Source	(CS)				
Remove PBL Source	(RS)				
Drop PBL Source	(DS)				
List Compiled form definition (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Drop Compiled form definition (DC)	(DC)				
Exit form driver form editor	(EX)				

Msg: ☐ Enter command on command entry line or use menu selection application

Figure 5-4 First FDFE Screen

To test listing FDL source files enter:

PCEDIT DRIVEN PEDIT EDITOR - VERSION 2.0 JUNE 1-1988

Command Entry

EDIT	FORMAT	Command	File	Format	Edit	Mode	Help
List	Format(LF)						
Write	Format(WF)						
Compile	Format(CF)						
Select a File	(SF)						
Insert a File	(IF)						
Modify a File	(MF)						
Group a File	(GF)						
Exit Write	(WB)						
Exit Compile	(BC)						
Exit No save	(NB)						

Next Task: Modify PBL Source
File Source: TEST

Legend:
 → Enter command on command entry line or use menu selection
 ← application
 ↑ line
 ↓ line

Figure 5-5 Test Screen 1

The result should be similar to the following depending on files currently in the default directory.

```

FORMS DRIVER FOR EDITOR - VERSION 2.0 JUNE 1, 1986

List PBL Source Files

APPROX      APPROX
ATTEST      TESTAP
BASED       USE
CHPPLS      USERV
EDITOR
FILE
FLPRNT      FLPRNT
HEADING     HEADING
IDENTIFY    IDENTIFY
ITHEMTY     ITHEMTY
IN
LLEPTNS     LLEPTNS
OBSERV      OBSERV
PERIOD      PERIOD
PYEST       PYEST
RPTAS       RPTAS

Msg: [ ] Press (EXIT) to return application

```

Figure 5-6 Test Screen 2

To return to work task menu screen press the QUIT key. To test listing FD object files enter:

```

PERM DRIVER PERM CENTER - VERSION 2.0 JUNE 1, 1988

Command Entry _____

NAME  NAME                                Command  P/c  Per/Proc Name  To/Proc Name  Note
List  PERL Source                          (L5)    [ ]
Insert PERL Source                        (I50)    [ ]
Modify PERL Source                       (M5)    [ ]
Delete PERL Source                       (D5)    [ ]
Copy   PERL Source                        (C5)    [ ]
Remove PERL Source                       (R5)    [ ]
Drop   PERL Source                        (S5)    [ ]
List   Compiled core definitions (L5)    [ ]
View   Compiled core definition (V5)    [ ]
Drop   Compiled core definition (D5)    [ ]
Exit   Core driver core editor  (E5)    [ ]

```

Figure 5-7 Test Screen 3

The result should be similar to the following depending on files currently in the default directory.

FORMS BRIDGE FORM EDITOR - VERSION 2.01 JUNE 1978

List Compiled Form Definitions

STW0002	STW0001	STW0003	STW0004	STW0005
STW0006	STW0007	STW0008	STW0009	STW0010
STW0011	STW0012	STW0013	STW0014	STW0015
STW0016	STW0017	STW0018	STW0019	STW0020
STW0021	STW0022	STW0023	STW0024	STW0025
STW0026	STW0027	STW0028	STW0029	STW0030
STW0031	STW0032	STW0033	STW0034	STW0035
STW0036	STW0037	STW0038	STW0039	STW0040
STW0041	STW0042	STW0043	STW0044	STW0045
STW0046	STW0047	STW0048	STW0049	STW0050
STW0051	STW0052	STW0053	STW0054	STW0055
STW0056	STW0057	STW0058	STW0059	STW0060
STW0061	STW0062	STW0063	STW0064	STW0065
STW0066	STW0067	STW0068	STW0069	STW0070
STW0071	STW0072	STW0073	STW0074	STW0075
STW0076	STW0077	STW0078	STW0079	STW0080
STW0081	STW0082	STW0083	STW0084	STW0085
STW0086	STW0087	STW0088	STW0089	STW0090
STW0091	STW0092	STW0093	STW0094	STW0095
STW0096	STW0097	STW0098	STW0099	STW0100

Page 1 of 1000

Figure 5-8 Test Screen 4

To return to work task menu screen press the QUIT key. To test inserting an FDL file enter:

PERMS DRIVEN PDM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS	Command	File	Per/From Name	To/From Name	Help
List FDL Source	LS				
Insert FDL Source	IS		TEST		
Modify FDL Source	MS				
Select FDL Source	SS				
Copy FDL Source	CS				
Remove FDL Source	RS				
Drop FDL Source	DS				
List Compiled form definitions	LC				
View Compiled form definition	VC				
Drop Compiled form definition	DC				
Exit Form driven form editor	EX				

Page: application

Figure 5-9 Test Screen 5

The result should be the same as the following.

PERMS DRIVEN PDM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS	Command	File	Form Name	Edit Mode	Help
List Formset	LS				
Write Formset	WS				
Compile Formset	CS				
Select a Form	SS				
Insert a Form	IS				
Modify a Form	MS				
Drop a Form	DS				
Exit Write	EX				
Exit Compile	EX				
Exit No save	EX				

Work Task: Insert FDL Source
Form Source: TEST

Page: Enter command on command entry line or use menu option - application

Figure 5-10 Test Screen 6

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To test inserting a form into an FDL file enter:

PDS/VSAM COMMAND MENU - VERSION 2.0 AUG 1.1985

Command Entry

EDIT TASKS Command	File	File Name	Edit Mode	Help
List				
Format L/P				
Write				
Format H/P				
Compile				
Format S/P				
Select a File				
Import a File	1	test	1	
Export a File				
Swap a File				
Exit Write				
Exit Format				
Exit Compile				
Exit No Save				

Work Task: Import PDS Source
File Source: TEST

Type 1 enter command on command entry line or use arrow selection application

Figure 5-11 Test Screen 7

The following screen should appear.

Figure 5-12 Test Screen 8

If the following is entered:

Structural Dynamics Research Corporation
83000 Eastman Drive
Billings, Ohio 46108

"Pay to the Order of"

[] [] []

[] (\$millars)

[]

- - - - -
[] []

Reg: n application

Figure 5-13 Test Screen 9

The following screen should appear.

Structural Dynamics Research Corporation
40000 Eastern Drive
Chillico, Ohio 45150

[Date: [-----]]

"Pay to the Order of"
[-----] [-----]

[-----] [-----] (dollar)

[-----]

"\$0000"

[-----]
[-----]

Reg: 1 Search has been entered successfully application

Figure 5-14 Test Screen 10

To return to edit task menu screen press the QUIT key. If the following is entered on the edit task menu screen:

FORM DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1-1985

Command Entry:

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Form(LF)				
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Mark Task: Insert PBL Source
Form Source: TEST

Reg: application

Figure 5-15 Test Screen 11

The following screen should appear.

FIELD EDIT MODE For PDL File TEST

TASK

Field 

Type 

Direct 

Get PBL 

FORM TEST

Size by

Background BLACK

Prompt Structural Dynamics Assoc

Row Column

— Field Information —

REQUIRED:

FIELD 

Row

Size

Display/Background

OPTIONAL:

Display 

Actual

Direction

Spacing

Field Repetition (-)

Prompt

ITEM ONLY:

Help

Value

Justify

Base Type

Min Value

Max Value

Base

Enter/Pull

Reg: Enter task and field to be acted on application

Figure 5-16 Test Screen 12

If the following is entered:

FIELD EDIT MODE For FDL File TEST

TAB: Field: Type: Direct: Set FDL: Form:

FORM TEST
Size: by
Background: BLACK
Prompt: Structural Dynamics Resea
Row: Column:

-- Field Information --

REQUIRED:
FIELD: Type:
Row: Column:
Size: By:
Display/Background:

OPTIONAL:
Display: Field Repetition:
Actual:
Direction:
Spacing:

Prompt:
Pos: Row: Col:

ITEM ONLY:
Help:
Value:
Justify: Data Type: MIN value:
Case: Enter/Fill: MAX value:

Msg: Enter task and field to be acted on application

Figure 5-17 Test Screen 13

The following screen should appear.

FIELD EDIT MODE For FDL File TEST

TAB: Field: Type: Direct: Set FDL: Form:

FORM TEST
Size: by
Background: BLACK
Prompt: Structural Dynamics Resea
Row: Column:

-- Field Information --

REQUIRED:
FIELD: Type:
Row: Column:
Size: By:
Display/Background:

OPTIONAL:
Display: Field Repetition:
Actual:
Direction:
Spacing:

Prompt:
Pos: Row: Col:

ITEM ONLY:
Help:
Value:
Justify: Data Type: MIN value:
Case: Enter/Fill: MAX value:

Msg: Make Your Modifications now application

Figure 5-18 Test Screen 14

If the following is entered:

FIELD EDIT MODE For FDL File TEST

YARN #1
Field
Type A
Direct B
Get FDL Form

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamics Room
Row 5 Column 3

-- Field Information --

REQUIRED:
FIELD SIGNATURE Type 1
Row 10 Column 40
Size 33 By 1
Display/ INPUT
Background

OPTIONAL:
Display Actual Field
Direction Repetition (-)
Spacing
Prompt TC Row 17 Col 41
Pos

ITEM ONLY:
Help
Value
Justify Data Type C MIN Value
Case Enter/Fill MAX Value

Msg: 1 Make Your Modifications now application

Figure 5-19 Test Screen 15

The following screen should appear.

FIELD EDIT MODE For FDL File TEST

YARN #1
Field
Type A
Direct B
Get FDL Form

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamics Room
Row 5 Column 3

-- Field Information --

REQUIRED:
FIELD SIGNATURE Type 1
Row 10 Column 40
Size 33 By 1
Display/ INPUT
Background

OPTIONAL:
Display Actual Field
Direction Repetition (-)
Spacing
Prompt TC Row 17 Col 41
Pos

ITEM ONLY:
Help
Value
Justify Data Type C MIN Value
Case Enter/Fill MAX Value

Msg: 1 Field was successfully added application

Figure 5-20 Test Screen 16

To return to edit task menu screen press the <QUIT> key.
If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 3, 1985

Command Entry:

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Forms (LF)				
Write Forms (WF)				
Compile Forms (CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Mark Task: Insert FDL Source
Form Source: TEST

Reg: application

Figure 5-21 Test Screen 17

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK	Type	Form	FORM TEST
Get FDL			Size 0 by 0
			Background BLACK
			Prompt Structural Dynamics Release
			Row 5 Column 3

-- Field Characteristics Table --

Reg: Enter task and type of fields to be acted on application

Figure 5-22 Test Screen 18

If the following is entered:

FORM EDIT MODE For FDL File TEST

TASK Type Set FDL Form

FORM TEST
Size by
Background BLACK
Prompt Structural Dynamics Record
Row Column

— Field Characteristics Table —

Msg: Enter task and type of fields to be acted on application

Figure 5-23 Test Screen 19

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK Type Set FDL Form

FORM TEST
Size by
Background BLACK
Prompt Structural Dynamics Record
Row Column

— Field Characteristics Table —

Field Name	T	Row	Col	Size	Display	Dep	Act	D	Sp	Prompt	Pos
SIGNATURE	1	18	40	33	1	INPUT					TC
FLB:18_04	1	15	4	21	1	INPUT				ssss	RT
FLB:12_04	1	12	4	28	1	INPUT				dollars	LT
FLB:10_67	1	10	67	11	1	INPUT				s	LT
FLB:10_04	1	10	4	28	1	INPUT				Pay to the Order of	LT
FLB:08_61	1	8	61	11	1	INPUT				Date	LT

Msg: Make Your Modifications now application

Figure 5-24 Test Screen 20

If the following is entered:

FORM EDIT MODE For FDL File TEST

TASK N
Type A
Set FDL Form

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamics Reader
Row 5 Column 3

Field Characteristics Table

Field Name	T	Row	Col	Size	Display	Dep	Act	D	Sp	Prompt	Pos
SIGNATURE	1	18	40	33	1	INPUT					TC
memo	1	15	4	21	1	INPUT				memo	RT
dollars	1	12	4	58	1	INPUT				dollars	LT
amount	1	10	47	11	1	INPUT				0	LT
pay_to	1	10	4	58	1	INPUT				Pay to the Order of	LT
chk_date	1	8	41	11	1	INPUT				Date	LT

More--

Msg: 1 Make Your Modifications now application

Figure 5-25 Test Screen 21

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK N
Type A
Set FDL Form

FORM TEST
Size 0 by 0
Background BLACK
Prompt Structural Dynamic Reader
Row 5 Column 3

Field Characteristics Table

Item name	Help Message
SIGNATURE	
MEMO	
DOLLARS	
AMOUNT	
PAY_TO	
CHK_DATE	

More--

Msg: application

Figure 5-26 Test Screen 22

If the following is entered:

FORM EDIT MODE For FDL File TEST

Item # Type Size Background Prompt Row Column

Get FDL Form 0 0 0 0 0 0

Background BLACK

Prompt Structural Dynamic Resour

Row 8 Column 3

-- Field Characteristics Table --

Item Name	Item Value
SIGNATURE	
REPO	
DOLLARS	
AMOUNT	
PAY_TO	
CHE_DATE	

More--

Post: [1] application

Figure 5-27 Test Screen 23

The following screen should appear.

FORM EDIT MODE For FDL File TEST

Item # Type Size Background Prompt Row Column

Get FDL Form 0 0 0 0 0 0

Background BLACK

Prompt Structural Dynamic Resour

Row 8 Column 3

-- Field Characteristics Table --

Item Name	Item Value
SIGNATURE	
REPO	
DOLLARS	
AMOUNT	
PAY_TO	
CHE_DATE	

More--

Post: [1] application

Figure 5-28 Test Screen 24

If the following is entered:

FORM EDIT MODE For FDL File TEST

TASK: A
Type: A
Get FDL: [] Form: []

FORM TEST
Size: 0 by 0
Background: BLACK
Prompt: Structural Dynamic Resistor
Row: 5 Column: 3

-- Field Characteristics Table --

Item Name	Item Value
SIGNATURE	
MEMO	
DOLLARS	
AMOUNT	
PAY_TO	
CHK_DATE	

☐ More--

Msg: [] application

Figure 5-29 Test Screen 25

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK: A
Type: A
Get FDL: [] Form: []

FORM TEST
Size: 0 by 0
Background: BLACK
Prompt: Structural Dynamic Resistor
Row: 5 Column: 3

-- Field Characteristics Table --

Item Name	Just	Case	Type	E/F	Min	Max
SIGNATURE			C			
MEMO			C			
DOLLARS			C			
AMOUNT			C			
PAY_TO			r			
CHK_DATE			C			

Msg: [] application

Figure 5-30 Test Screen 26

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If the **ENTER** key is pressed the following screen will appear.

PERM ONLY MODE

For FBL File TEST

Tag:

Type:

Get FBL:

PERM TEST

Size: by

Background: BLACK

Prompt: Structural Dynamic Reader

Row: Column:

-- Field Characteristics Table --

Msg: ☐ CDE_SAVE has been successfully modified application

Figure 5-31 Test Screen 27

If the 'MESSAGE' key is pressed the following screen should appear.

```

Message Status

Msg#   6 CDE_DATE      has been successfully modified
Msg#   5 PWR_TO       has been successfully modified
Msg#   4 SPELNT       has been successfully modified
Msg#   3 BILLARD     has been successfully modified
Msg#   2 FORD        has been successfully modified
Msg#   1 GENDATURE    has been successfully modified


Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#
Msg#

```

application

Figure 5-32 Test Screen 28

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To return to form edit mode screen press the 'QUIT' key.
To return to edit task menu screen press the 'QUIT' key. If the
following is entered on the edit task menu screen:

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Form(LF)				
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Mark Task: Insert PBL Source
Form Source: TEST

Msg: 0 application

Figure 5-33 Test Screen 29

The following screen should appear.

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Form(LF)				
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Mark Task: Insert PBL Source
Form Source: TEST

Msg: 1 Save source and compile was successful application

Figure 5-34 Test Screen 30

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To return to work task menu screen press the QUIT key. To test viewing compiled FD files enter:

FORM DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

WORK TASKS	Command	Pic	For/From Name	To/Use Name	Help
List FDL Source	(LB)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Remove FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Use Compiled form definition (UC)					
Exit form driven form editor (EX)					

Msg: application

Figure 5-35 Test Screen 31

The result should be the same as the following.

Structural Dynamic Research Corporation
2700 Eastman Drive
Hilliard, Ohio 43131

Date:

Pay to the order of \$

Dollars

Msg: Press (QUIT) to return application

Figure 5-36 Test Screen 32

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1 November 1985

To return to work task menu screen press the .QUIT. key.
To test modifying an FDL file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 APR 1.1985

Command Entry

EDIT TABLE	Command	Pic	Par/Form Name	To/From Name	Help
List FDL Sources	(LB)	[Vertical Bar]	[Large Box]	[Small Box]	[Vertical Bar]
Insert FDL Source	(IB)				
Modify FDL Source	(MB)				
Select FDL Source	(SB)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DB)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
EXIT form driven form editor	(EX)				

Msg: application

Figure 5-37 Test Screen 33

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 APR 1.1985

Command Entry

EDIT TABLE	Command	Pic	Form Name	Edit Mode	Help
List	Form(LF)	[Vertical Bar]	[Large Box]	[Vertical Bar]	[Vertical Bar]
Write	Form(WF)				
Compile	Form(CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Drop a Form	(DF)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit No save	(EN)				

Work Task: Modify FDL Source
Form Source: TEST

Msg: Enter command on command entry line or use menu selection application

Figure 5-38 Test Screen 34

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To test the list forms in FDL source file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1-1985

Command Entry:

EDIT TESTS Command	File Name	Edit Mode	Help
List Forms (LF)			
Write Forms (WF)			
Compile Forms (CF)			
Select a Form (SF)			
Insert a Form (IF)			
Modify a Form (MF)			
Drop a Form (DF)			
Exit Write (EW)			
Exit Compile (EC)			
Exit All Save (ES)			

Work Task: Modify FDL Source
Form Source: TEST

Msg: ☐ Enter command on command entry line or use menu selection application

Figure 5-39 Test Screen 35

The following screen should appear.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1-1985

List of Forms for FDL File TEST

TEST

Msg: ☐ Press (EXIT) to return application

Figure 5-40 Test Screen 36

To return to edit task menu screen press the (QUIT) key.
If the following is entered on the edit task menu screen:

FORM DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS Command	Pic	Form Name	Edit Mode	Note
List	Form(LF)			
Write	Form(WF)			
Compile	Form(CF)			
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write	(EW)			
Exit Compile	(EC)			
Exit No save	(EN)			

Work Task: Modify PDL Source
Form Source: TEST

Page: application

Figure 5-41 Test Screen 37

The following screen should appear.

FORM EDIT MODE

for PDL File TEST

Task:

Get PDL

Form TEST

Size: by

Background:

Prompt:

Row: Column:

Field Characteristics Table

Page: Enter task and type of fields to be acted on application

Figure 5-42 Test Screen 38

If the following is entered:

PERM EDIT HERE For PBL File TEST

TAB: P
Type: A
Get PBL: [] Form: []

PERM TEST
Size: 77 by 18
Background: BLACK
Prompt: Structural Dynamic Resistor
Row: 5 Column: 3

-- Field Characteristics Table --

Msg: [1] Enter form and type of fields to be acted on application

Figure 5-43 Test Screen 39

The following screen should appear.

PERM EDIT HERE For PBL File TEST

TAB: P
Type: A
Get PBL: [] Form: []

PERM TEST
Size: 77 by 18
Background: BLACK
Prompt: Structural Dynamic Resistor
Row: 5 Column: 3

-- Field Characteristics Table --

Field Name	Y	Row	Col	Size	Display	Msg	Act	Q	Op	Prompt	Pos
SIGNATURE	1	18	41	33	1	INPUT					TC
PERIOD	1	18	4	21	1	INPUT					BC
DOLLARS	1	12	4	38	1	INPUT				Dollars	BT
AMOUNT	1	10	67	11	1	INPUT				0	LT
PAY_TO	1	10	4	38	1	INPUT				Pay to the order of	LT
CHEQ_DATE	1	8	61	12	1	INPUT				Date	LT

Msg: [1] Make Your Modifications now application

Figure 5-44 Test Screen 40

If the following is entered:

FORM EDIT MODE For FDL File TEST

TASK FORM TEST
Type Size by
Set FDL Form Background BLACK
Prompt Structural Dynamic Resear
Row Column

-- Field Characteristics Table --

Field Name	T	Row	Col	Size	Display	Dep	Act	D	Sp	Prompt	Pos
SIGNATURE	1	10	4	33	1	INPUT					TC
MEMO	1	15	4	21	1	INPUT					BC
DOLLARS	1	12	4	50	1	INPUT				Dollars	RT
AMOUNT	1	10	4	11	1	INPUT					LT
PAY_TO	1	11	4	50	1	INPUT				Pay to the order of	LT
CHK_DATE	1	8	6	12	1	output				Date	LT

More--

Msg: ☐ Make Your Modifications now application

Figure 5-45 Test Screen 41

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK FORM TEST
Type Size by
Set FDL Form Background BLACK
Prompt Structural Dynamic Resear
Row Column

-- Field Characteristics Table --

Msg: ☐ CHK_DATE has been successfully modified application

Figure 5-46 Test Screen 42

If the **MESSAGE** key is pressed the following screen should appear.

[illegible]

Figure 5-47 Test Screen 43

To return to form edit mode screen press the (QUIT) key.
To return to edit task menu screen press the (QUIT) key. If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1.1985

Command Entry

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Form (LF)				
Write Form (WF)				
Compile Form (CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)		test	a	
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Work Task: Modify PBL Source
Form Source: TEST

Page: Enter command on command entry line or use menu selection application

Figure 5-48 Test Screen 44

The following screen should appear.

FIELD EDIT MODE For FIE File TEST

TASK: Field Type Direct Get FIE Form

FORM TEST
Size 77 by 18
Background BLACK
Prompt Structural Dynamic Reader
Row 5 Column 3

-- Field Information --

REQUIRED:
FIELD: Row Size Display Background
Type: Enter/Full E

OPTIONAL:
Display Actual Direction Spacing
Field Repetition (-)
Prompt: Row Col

ITEM ONLY:
Name Value Justify Data Type MIN Value MAX Value
Case Enter/Full

Reg: 1 Enter task and field to be acted on application

Figure 5-49 Test Screen 45

If the following is entered:

FIELD EDIT MODE For FDL File TEST

TASK: Field Type Direct Get FDL Form

FORM TEST
Size 77 by 18
Background BLACK
Prompt Structural Dynamic Reader
Row 5 Column 3

-- Field Information --

REQUIRED:
FIELD: Row Size Display Background
Type: Enter/Full E

OPTIONAL:
Display Actual Direction Spacing
Field Repetition (-)
Prompt: Row Col

ITEM ONLY:
Name Value Justify Data Type MIN Value MAX Value
Case Enter/Full

Reg: 1 Enter task and field to be acted on application

Figure 5-50 Test Screen 46

The following screen should appear.

FIELD EDIT MODE		For FDL File TEST	
TAB: R	FORM TEST	Size: 77 by 18	
Field: CHG_DATE	Background: BLACK	Prompt: Structural Dynamic Resear	
Type: []	Row: 5	Column: 3	
Direct: []			
Set FDL: []			
-- Field Information --			
REQUIRED:		OPTIONAL:	
FIELD: CHG_DATE	Type: 1	Display: []	Field Repetition: (-)
Row: 2	Column: 01	Actual: []	
Size: 1-	By: 1	Direction: []	
Display: OUTPUT		Spacing: []	
Background: []		Prompt: Date	
ITEM ONLY:		Pos: LT	Row: 8 Col: 56
Help Value: []			
Justify: []	Data Type: C	MIN Value: []	
Case: []	Enter/Fill: []	MAX Value: []	
Msg: 1 Make Your Modifications now			
application			

Figure 5-51 Test Screen 47

If the following is entered:

FIELD EDIT MODE		For FDL File TEST	
TAB: R	FORM TEST	Size: 77 by 18	
Field: CHG_DATE	Background: BLACK	Prompt: Structural Dynamic Resear	
Type: []	Row: 5	Column: 3	
Direct: []			
Set FDL: []			
-- Field Information --			
REQUIRED:		OPTIONAL:	
FIELD: CHG_DATE	Type: 1	Display: []	Field Repetition: (-)
Row: 8	Column: 01	Actual: []	
Size: 10	By: 1	Direction: []	
Display: OUTPUT		Spacing: []	
Background: []		Prompt: Date	
ITEM ONLY:		Pos: LT	Row: 8 Col: 56
Help Value: "08/01/1985"			
Justify: []	Data Type: C	MIN Value: []	
Case: []	Enter/Fill: []	MAX Value: []	
Msg: 1 Make Your Modifications now			
application			

Figure 5-52 Test Screen 48

The following screen should appear.

FIELD EDIT MODE For FDL File TEST

TASK:

Field:

Type:

Direct:

Get FDL:

FORM TEST

Size: 77 by 18

Background: BLACK

Prompt: Structural Dynamic Resear

Row: 5 **Column:** 3

-- Field Information --

REQUIRED:

FIELD: **Type:**

Row: 8 **Column:** 61

Size: 10 **By:** 1

Display/OUTPUT:

Background:

OPTIONAL:

Display:

Actual:

Direction:

Beating:

Field Repetition: (-)

Prompt:

Pos: LT Row 8 Col 56

ITEM ONLY:

Help:

Value:

Justify:

Case:

Enter/Full:

Msg: ☐ Field was successfully modified application

Figure 5-53 Test Screen 49

To return to edit task menu screen press the <QUIT> key.
If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS Command Pic Para Name Edit Mode Help

List Forms (LP)

Write Forms (WP)

Compile Forms (CP)

Select a Form (SF)

Insert a Form (IF)

Modify a Form (MF)

Drop a Form (DF)

Exit Write (EW)

Exit Compile (EC)

Exit No save (EN)

Mark Task: Modify FDL Source

Form Source: TEST

Msg: ☐ application

Figure 5-54 Test Screen 50

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The following screen should appear.

Structural Dynamic Research Corporation
22000 Eastman Drive
Millersburg, Ohio 43130

(Date) (-----)

"Pay to the order of" (-----) (B) (-----)

(-----) (Dollars)

(-----)

"Amount" (-----)

(-----)

Msg: 0 application

Figure 5-55 Test Screen 51

To return to edit task menu screen press the <QUIT> key.
If the following is entered on the edit task menu screen:

FORCE DRIVEN FORM EDITOR - VERSION 3.0 JUNE 1, 1985

Command Entry: [11 10012 1]

EDIT TASKS	Command	File	Form Name	Edit Mode	Help
List	Form(LP)				
Write	Form(WP)				
Compile	Form(CP)				
Select a Form	(SP)				
Insert a Form	(IP)				
Modify a Form	(MP)				
Drop a Form	(DP)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit Be done	(ED)				

Work Task: Modify PDL Source
Form Source: TEST

Msg: 0 application

Figure 5-56 Test Screen 52

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1 November 1985

The following screen should appear.

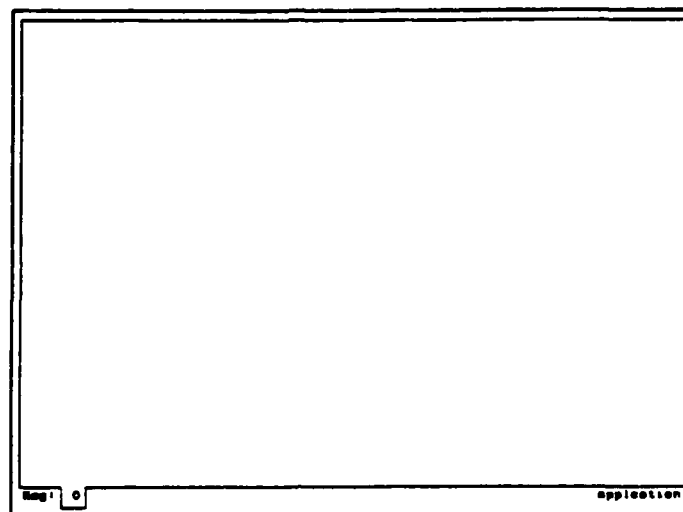


Figure 5-57 Test Screen 53

If the following is entered:

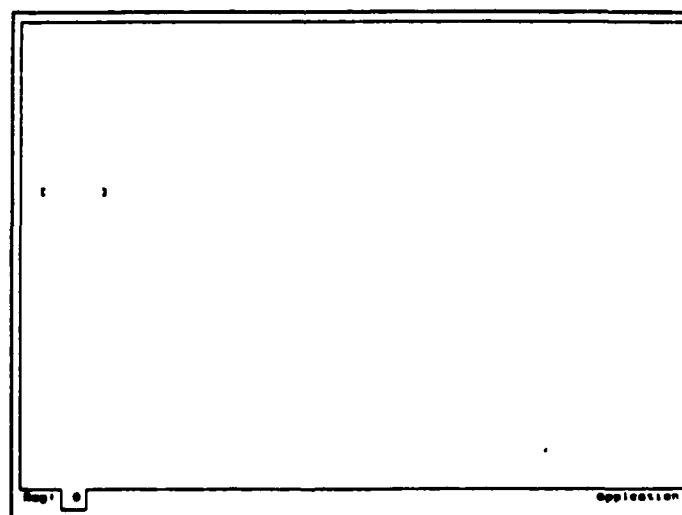


Figure 5-58 Test Screen 54

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The following screen should appear.

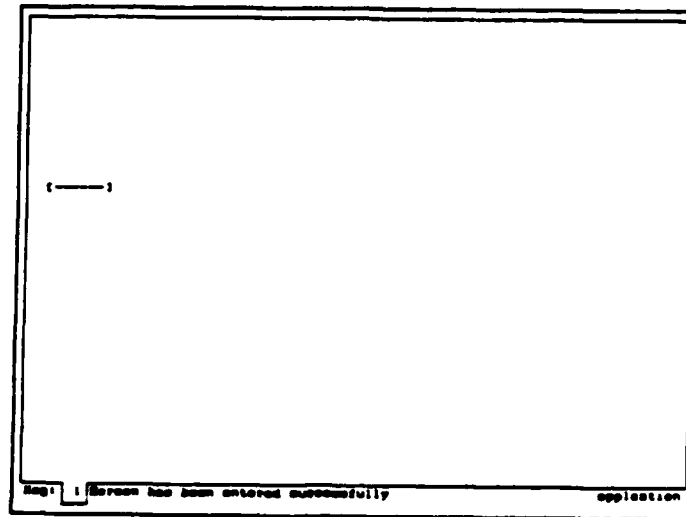


Figure 5-59 Test Screen 55

To return to edit task menu screen press the 'QUIT' key.
To test the ability to drop a form from an FDL file enter:

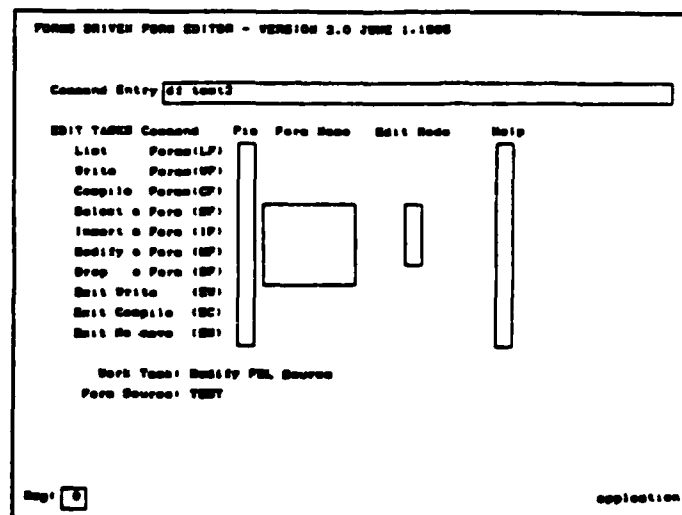


Figure 5-60 Test Screen 56

The following screen should appear.

FORMS DRIVER FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TABLE Command	File	Form Name	Edit Mode	Help
List Form(LF)				
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Work Table: Modify PBL Source
Form Source: TEST

Msg: ☐ Drop form was successful

application

Figure 5-61 Test Screen 57

To test compiling and saving source file which was modified enter:

FORMS DRIVER FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TABLE Command	File	Form Name	Edit Mode	Help
List Form(LF)				
Write Form(WF)				
Compile Form(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Work Table: Modify PBL Source
Form Source: TEST

Msg: ☐ Drop form was successful

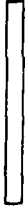
application

Figure 5-62 Test Screen 58

The following screen should appear.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Form(LF)				
Write	Form(WF)				
Compile	Form(CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Delete a Form	(DF)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit No save	(EN)				

Work Task: Modify FDL Source
Form Source: TEST

Msg: ☐ Save source and compile was successful

application

Figure 5-63 Test Screen 59

To return to work task menu screen press the <QUIT> key.
To test selecting and FDL source file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/Form Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Delete FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Delete Compiled form definition (DC)					
Exit form driven form editor	(EX)				

Msg: ☐ G

application

Figure 5-64 Test Screen 60

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The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Modes	Help
List	Form (LF)				
Select a Form	(SF)				
Exit No save	(EN)				

Work Task: Select PDL Source for - READING ONLY
Form Source: TEST

Msg: ☐ Enter command on command entry line or use menu selection application

Figure 5-65 Test Screen 61

If the following is entered:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Modes	Help
List	Form (LF)				
Select a Form	(SF)				
Exit No save	(EN)				

Work Task: Select PDL Source for - READING ONLY
Form Source: TEST

Msg: ☐ Enter command on command entry line or use menu selection application

Figure 5-66 Test Screen 62

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TASK 8

Type Form

Set FDL

FORM TEST

Size 77 by 18

Background BLACK

Prompt Structural Dynamic Resistor

Row 5 Column 3

-- Field Characteristics Table --

Msg: 1 Enter type of fields to be viewed application

Figure 5-67 Test Screen 63

If the following is entered:

FORM EDIT MODE For FDL File TEST

TASK 8

Type Form

Set FDL

FORM TEST

Size 77 by 18

Background BLACK

Prompt Structural Dynamic Resistor

Row 5 Column 3

-- Field Characteristics Table --

Msg: 1 Enter type of fields to be viewed application

Figure 5-68 Test Screen 64

The following screen should appear.

FORM EDIT MODE For FDL File TEST

TAB: 8 FORM TEST
Type: A Size: 77 by 18
Get FDL: Form: Background: BLACK
Prompt: Structural Dynamic Reader
Row: 5 Column: 3

Field Characteristics Table

Field Name	T	Row	Col	Size	Display	Dep	Act	D	So	Prompt	Pos
SIGNATURE	1	18	41	33	1	INPUT					TC
MEMO	1	18	4	21	1	INPUT					SC
DOLLARS	1	12	4	28	1	INPUT					RT
AMOUNT	1	10	47	11	1	INPUT					LT
PAY_TO	1	10	4	38	1	INPUT					LT
CHE_DATE	1	8	41	10	1	OUTPUT					LT

Page: 0 application

Figure 5-69 Test Screen 65

If the <ENTER> key is pressed the following screen will appear.

FORM EDIT MODE For FDL File TEST

TAB: 8 FORM TEST
Type: A Size: 77 by 18
Get FDL: Form: Background: BLACK
Prompt: Structural Dynamic Reader
Row: 5 Column: 3

Field Characteristics Table

Field Name	T	Row	Col	Size	Display	Dep	Act	D	So	Prompt	Pos
SIGNATURE	1	18	41	33	1	INPUT					TC
MEMO	1	18	4	21	1	INPUT					SC
DOLLARS	1	12	4	28	1	INPUT					RT
AMOUNT	1	10	47	11	1	INPUT					LT
PAY_TO	1	10	4	38	1	INPUT					LT
CHE_DATE	1	8	41	10	1	OUTPUT					LT

Page: 0 application

Figure 5-70 Test Screen 66

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To return to edit task menu screen press the <QUIT> key.
If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS Command	Pic	Form Name	Edit Modes	Help
List Form (LF)				
Select a Form (SF)				
Exit No save (EN)				

Work Task: Select FDL Source for - READING ONLY
Form Source: TEST

Reg: .application

Figure 5-71 Test Screen 67

The following screen should appear.

FIELD EDIT MODE For FDL File TEST

TASK 8	FORM TEST
Field	Size 77 by 18
Type	Background BLACK
Direct	Prompt Structural Dynamic Record
Get FDL	Row 3 Column 3

-- Field Information --

REQUIRED:	OPTIONAL:
FIELD	Display
Row	Actual
Size	Direction
Display/	Spacing
Background	

Prompt

ITEM ONLY:
Value
Justify
Case
Data Type
Enter/Exit
RIN Value
MAX Value

Reg: Enter field to be viewed .application

Figure 5-72 Test Screen 68

If the following is entered:

FIELD EDIT MODE		For FIA File TEST	
TAG: 8		FORM TEST	
Field	Size	77 by 18	
Type	Background	BLACK	
Direct	Prompt	Structural Dynamic Resear	
Get FIA	Row	5	Column 3
-- Field Information --			
REQUIRED:		OPTIONAL:	
FIELD	Type	Display	Field
Row	Column	Actual	Repetition
Size	By	Direction	(-)
Display/		Spacing	
Background			
ITEM ONLY:		Prompt	
Help		Pos	Row Col
Value			
Justify	Data Type	MIN Value	
Case	Enter/Fill	MAX Value	
Reg: 1 Enter field to be viewed		application	

Figure 5-73 Test Screen 69

The following screen should appear.

FIELD EDIT MODE		For FIA File TEST	
TAG: 8		FORM TEST	
Field	Size	77 by 18	
Type	Background	BLACK	
Direct	Prompt	Structural Dynamic Resear	
Get FIA	Row	5	Column 3
-- Field Information --			
REQUIRED:		OPTIONAL:	
FIELD	Type	Display	Field
Row	Column	Actual	Repetition
Size	By	Direction	(-)
Display/		Spacing	
Background			
ITEM ONLY:		Prompt	
Help		Pos	10 Row 17 Col 41
Value			
Justify	Data Type	MIN Value	
Case	Enter/Fill	MAX Value	
Reg: 1		application	

Figure 5-74 Test Screen 70

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To return to edit task menu screen press the 'QUIT' key.
If the following is entered on the edit task menu screen:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry: _____

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Form(LF)				
Select a Form (SF)			TEST	1	
Exit No save (EN)					

Work Task: Select FDL Source for - READING ONLY
Form Source: TEST

Reg: 0 application

Figure 5-75 Test Screen 71

The following screen should appear.

Structural Dynamic Research Corporation
82000 Eastman Drive
Millard, Ohio 44130

IDate(-----)

"Pay to the order of" _____

(-----) 10(-----)

(-----)(Dollars)

(-----)

"Name" _____

Reg: 0 application

Figure 5-76 Test Screen 72

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To return to edit task menu screen press the <QUIT> key.
To return to work task menu screen press the <QUIT> key. To
view the changes to the compiled FD file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.00 JUNE 1, 1985

Command Entry:

WORK TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Source	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Delete FDL Source	(DS)				
List Compiled form definitions (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Delete Compiled form definition (DC)	(DC)				
Exit form driven form editor (EX)	(EX)				

Page: application

Figure 5-77 Test Screen 73

The result should be the same as the following.

Structural Dynamic Research Corporation
2000 Eastern Drive
Hilliard, Ohio 43151

Date 06/01/1985

Pay to the order of

\$

Dollars

Page: Press (QUIT) to return application

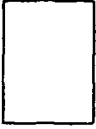
Figure 5-78 Test Screen 74

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To return to work task menu screen press the <QUIT> key.
To test copying one FDL file to another enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MORE TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Drop Compiled form definition (DC)	(DC)				
Exit form driven form editor (EX)	(EX)				

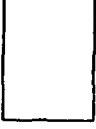
Msg: ☐ application

Figure 5-79 Test Screen 75

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MORE TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Drop Compiled form definition (DC)	(DC)				
Exit form driven form editor (EX)	(EX)				

Msg: ☒ Copy was successful application

Figure 5-80 Test Screen 76

To test dropping an FDL file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MORE TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LB)				
Insert FDL Source	(IB)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

Msg: ☐ Copy was successful

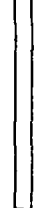
application

Figure 5-81 Test Screen 77

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

MORE TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LB)				
Insert FDL Source	(IB)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

Msg: ☐ Drop source was successful

application

Figure 5-82 Test Screen 78

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To test renaming an FDL file to another file enter:

FORMS DRIVER FORM EDITOR - VERSION 1.0 - RNE 1.1985

Command Entry

MAIN TASKS		Command	Pic	For/From Name	To/New Name	Help
List	FDL Sources	(LS)	[Large rectangular box]	[Small rectangular box]		[Vertical bar]
Insert	FDL Source	(IS)				
Modify	FDL Source	(MS)				
Select	FDL Source	(SS)				
Copy	FDL Source	(CS)				
Rename	FDL Source	(RS)				
Drop	FDL Source	(DS)				
List	Compiled form definitions (LC)		[Small rectangular box]			
View	Compiled form definition (VC)					
Drop	Compiled form definition (DC)					
Exit	form driven form editor	(ES)				

Msg: ☐ Drop source was successful

application

Figure 5-83 Test Screen 79

The result should be the same as the following.

FORMS DRIVER FORM EDITOR - VERSION 1.0 - RNE 1.1985

Command Entry

MAIN TASKS		Command	Pic	For/From Name	To/New Name	Help
List	FDL Sources	(LS)	[Large rectangular box]	[Small rectangular box]		[Vertical bar]
Insert	FDL Source	(IS)				
Modify	FDL Source	(MS)				
Select	FDL Source	(SS)				
Copy	FDL Source	(CS)				
Rename	FDL Source	(RS)				
Drop	FDL Source	(DS)				
List	Compiled form definitions (LC)		[Small rectangular box]			
View	Compiled form definition (VC)					
Drop	Compiled form definition (DC)					
Exit	form driven form editor	(ES)				

Msg: ☐ Rename was successful

application

Figure 5-84 Test Screen 80

To test dropping an FD file enter:

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

NAME TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Source	(LR)				
Insert FDL Source	(IR)				
Modify FDL Source	(MR)				
Select FDL Source	(SR)				
Copy FDL Source	(CR)				
Rename FDL Source	(RR)				
Drop FDL Source	(DR)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit forms driven form editor (EX)					

Msg: ☐ Rename was successful

application

Figure 5-85 Test Screen 81

The result should be the same as the following.

FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

NAME TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Source	(LR)				
Insert FDL Source	(IR)				
Modify FDL Source	(MR)				
Select FDL Source	(SR)				
Copy FDL Source	(CR)				
Rename FDL Source	(RR)				
Drop FDL Source	(DR)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit forms driven form editor (EX)					

Msg: ☐ Drop Compiled form was successful

application

Figure 5-86 Test Screen 82

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To exit the FDFE either press the 'QUIT' key or enter:

FORM DRIVEN FORM EDITOR - VERSION 2.0 APR 1, 1985

Command Entry:

FFFF TABS	Command	Pic	For/From Name	To/New Name	Help
List FDL Source	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Remove FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definition (LC)	(LC)				
View Compiled form definition (VC)	(VC)				
Drop Compiled form definition (DC)	(DC)				
Exit form driven form editor (EX)	(EX)				

Msg: ☐ Drop Compiled form was successful

application

Figure 5-87 Test Screen 83

After exiting the FDFE, the IISS Function Screen (Figure 5-3) form appears, press the 'QUIT' key once more to terminate the Unit Test of the FDFE.

