

A Hewlett-Packard Software Summary  
for the System 45B Desktop Computer

# System 45B Forms Utility



# Forms creation for versatile data entry and display.

Inventory files, personnel records and many other data files are depending more and more on some kind of form to achieve a controlled method of gathering, updating and reviewing data. Shipping forms, order forms, patient records, application forms and reporting forms are just a few of the hundreds of forms used every day by business, science and industry. Now, with the HP Forms Utility software pack together with HP's top-of-the-line System 45B Desktop Computer, you can create custom-made forms, update the information placed on them, store them for later updating and review, and use them in your own programs for data entry and review.

## Building Your Own Forms

The BUILDFORM module of this pack allows you to design your own form right on the System 45B's CRT screen. Your form can be up to 50 lines in depth and can feature video highlighting such as blinking, inverse video and underlining. Once your form is created, you can store it for later use.

Field lengths within your form can be up to 80 characters and you can set the tab order to duplicate those of a manual form. The System 45B's addressable cursor allows quick access to and specification of each field. You can also place each field wherever you want on the CRT screen. See Figure 1.

## CRT-defined Special Function Keys Help Design Your Form

One of the more unique features of this pack is the use of a special display placed at the bottom of the CRT screen which identifies and defines the operation of the System 45B's Special Function Keys. By pressing one of these Special Function Keys, the operation is either further defined on the CRT (for a

**Dashed Lines**  
Can be used to place emphasis or call attention when the form is printed.

**Tab Order**  
You specify the order in which you want to update the form.

ORIGIN:	DATE:	MT:	MSG #:	TEST:	
FORT COLLINS DESKTOP COMPUTER DIVISION 3400 East Harmony Road Fort Collins, Colorado 80521					
SHIP TO:				B/L NUMBER	
M/F:				OT	ORDER NUMBER SECTION
CUST ORDER NO:			GOV CONTRACT NO:		
SOLD TO:					
CUST ORDER NO		GOV CONTRACT NO		HP GSA	HP PURCH HP QUOTE NO
TT	CUST NO	CT	W-OR	ENG TRC	RATING REQ DATE DCT-MFG DCT-REG DCT-SQ TERMS
OPR	INSP	FAST P	COG	INS 2	MAN NO PTL DD 250 SHIP VIA INSTRUCTIONS CRO
SPECIAL INSTRUCTIONS:					
SHIP DATE		METHOD	CARRIER	FREIGHT	COG CHG PARTIAL NO
IN	SUB	X	ENT	E	PROD NO DESCRIPTION PRICE PNT SP QC ID QTY RED QTY QTY
ITH			NO	K	ORD DATE ACK SHP
PAGE: HP ORDER NUMBER: HART SYSTEM--SHIPPING ORDER					

**Line Drawing**  
Two different line widths are available.

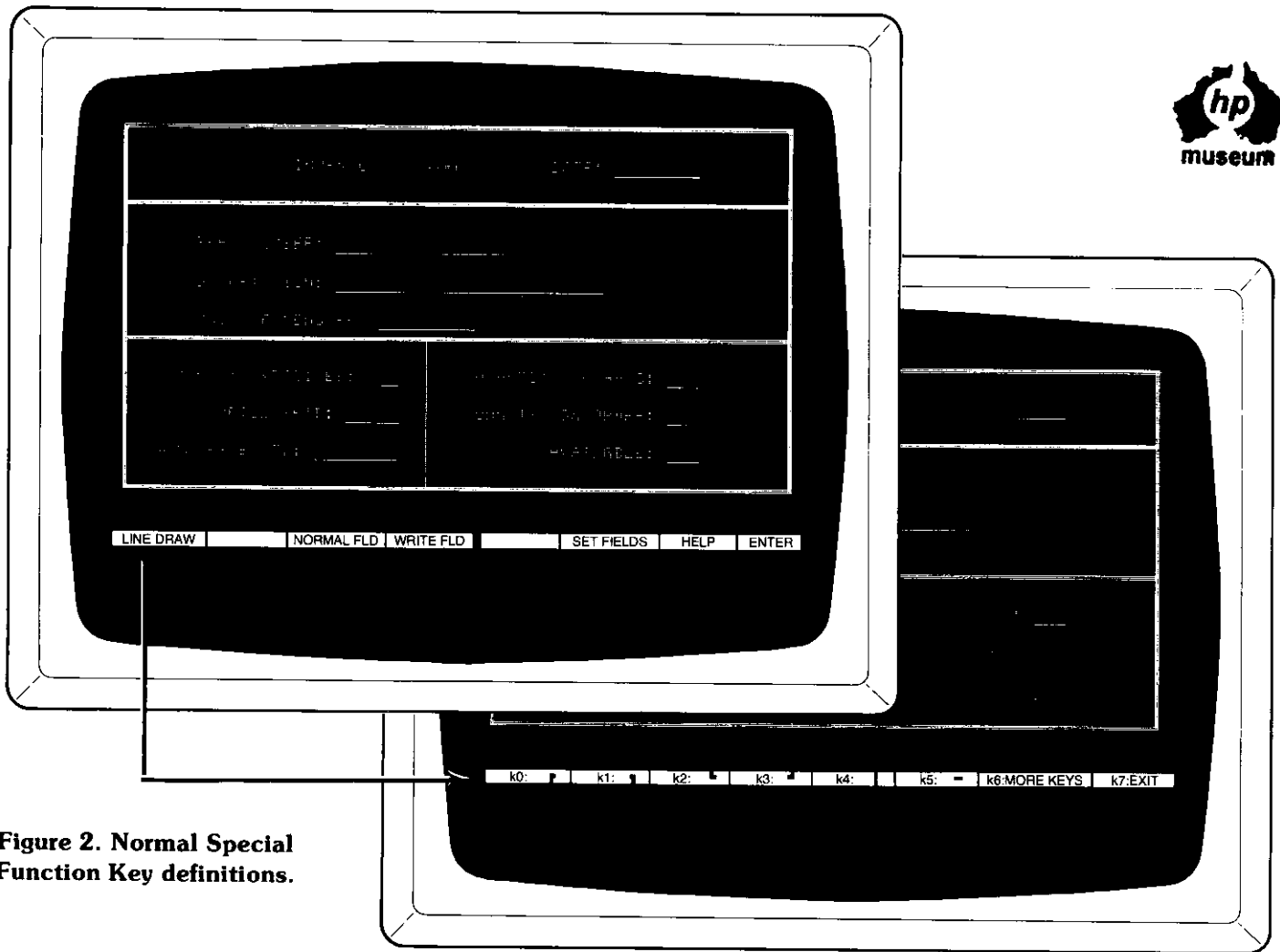
**Variable Field Placement**  
With the System 45B's addressable cursor, you can position fields and lines anywhere you want.

**Figure 1. Shipping forms such as this can be created with the Forms Utility pack.**

## USEFORM—Easy Program Tie-in Plus File Updating and Review Capability

Once you have created your form and stored it you may modify existing programs or write new programs that use this new form for display and updating. To do this, you must use the USEFORM module in the Forms Utility pack. USEFORM is a sub-program, accessed by

more detailed procedure) or the indicated function is performed. For example, pressing the "Line Drawing" key will cause all the Special Function Keys to be further defined for various kinds of line drawing operations. This further definition of keys will be displayed on the CRT. See Figure 2.



**Figure 2. Normal Special Function Key definitions.**

your main program, that is a general purpose form-filling routine. It is called from your program to read data from or write data into the form you have stored. Your form may be filled all at once and all values returned to the program. Or, any given subset of fields may be filled and their values returned to the program for intermediate error checking. Your program may then determine that a given input is incorrect and you must re-enter that field. This capability allows you to fill, read and clear selected fields without affecting others.

For example, in Figure 3 patient test parameters are specified for certain fields. If test result data is input and is found to be outside that parameter range, your program can be constructed to require that the data be corrected and re-entered.

**Figure 2A. Single Special Function Key further defined.**

MARIAN HEALTH CENTER ST. JOSEPH UNIT SIOUX CITY, IOWA					RADIOIMMUNOASSAY I EXAM. BY: DR. ORLAND BAKER		
TODAY	TOMORROW X	ADMIT	PRE-OP	STAT	TIME 10:00A	DATE 12-29-78	REQUESTING NURSE JEWEL TRUESDALE
TEST				NORMAL	ACTUAL		
Digoxin				1.2-3.0 ng/ml	2.3		
Type of Digoxin, Dosage							
T4				5-13 ug%	5.7		
T3 - ½ uptake				0.25-0.35	.24		
FTI (Free Thyronine Index)				1.25-4.75	1.9		
TSH				0-12 uIU/ml	2		
T3 RIA (Triiodothyronine)				see report			
FSH				see report			
LH				see report			
Aldosterone (Urine)				see report		AMOUNT: \$15.00	
Aldosterone (Serum)				see report		CHARGE:	
Chorionic Gonadotropin				see report		CREDIT: X	
Estrogen				see report		TIME SPEC DRAWN	
Testosterone				see report			
Growth Hormone (STH)				see report			
PATHOLOGIST'S COMMENTS					DIAGNOSIS		
HENRY J. CAES, M.D., FCAP, PATHOLOGIST					DATE		
BARRY E. KNAPP, M.D., FCAP, PATHOLOGIST							

**Figure 3. Example of how a form might look for patient test records. Some fields have been filled already.**

## Benefit From The User's Club

Another way many owners get even more value from their equipment is through our free-membership BASIC User's Club. The BASIC User's Club is a service provided by Hewlett-Packard for people who own HP desktop computers and want to share programming ideas. You'll discover creative solutions to many problems while using your desktop computer. At the same time, many other users are working on their problems using similar machines. So why not exchange programs?

The club maintains a library of user-contributed BASIC language programs covering a wide range of applications. You can submit as many programs as you like, and for each program you contribute, you can choose three others from the library. The club catalog, which you receive free when you join, lists all available software. You can also get additional programs through the information exchange service and exchange ideas at area meetings.

## Hardware Configuration

To start creating and using your own forms with the HP Forms Utility pack, you'll need:

- HP System 45B (9845B) Desktop Computer with 56 266 bytes of user-available Read/Write memory
- As your data requirements grow you may need additional mass storage capability. HP offers the following mass storage devices that are fully compatible with the System 45B:
  - HP 9885 M/S Flexible Disk Drives
  - HP 7906A Cartridge Disc Drive

## Ordering Information

To order the HP Forms Utility pack, which includes:

- an instruction manual
  - a program tape cartridge
- specify HP Part No. 09845-10170.



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For assistance call: Washington (301) 948-6370, Chicago (312) 255-9800, Atlanta (404) 955-1500, Los Angeles (213) 877-1282.  
Ask for an HP Desktop Computer representative.