

HP VIEW/3000

A SOURCE DATA ENTRY SYSTEM

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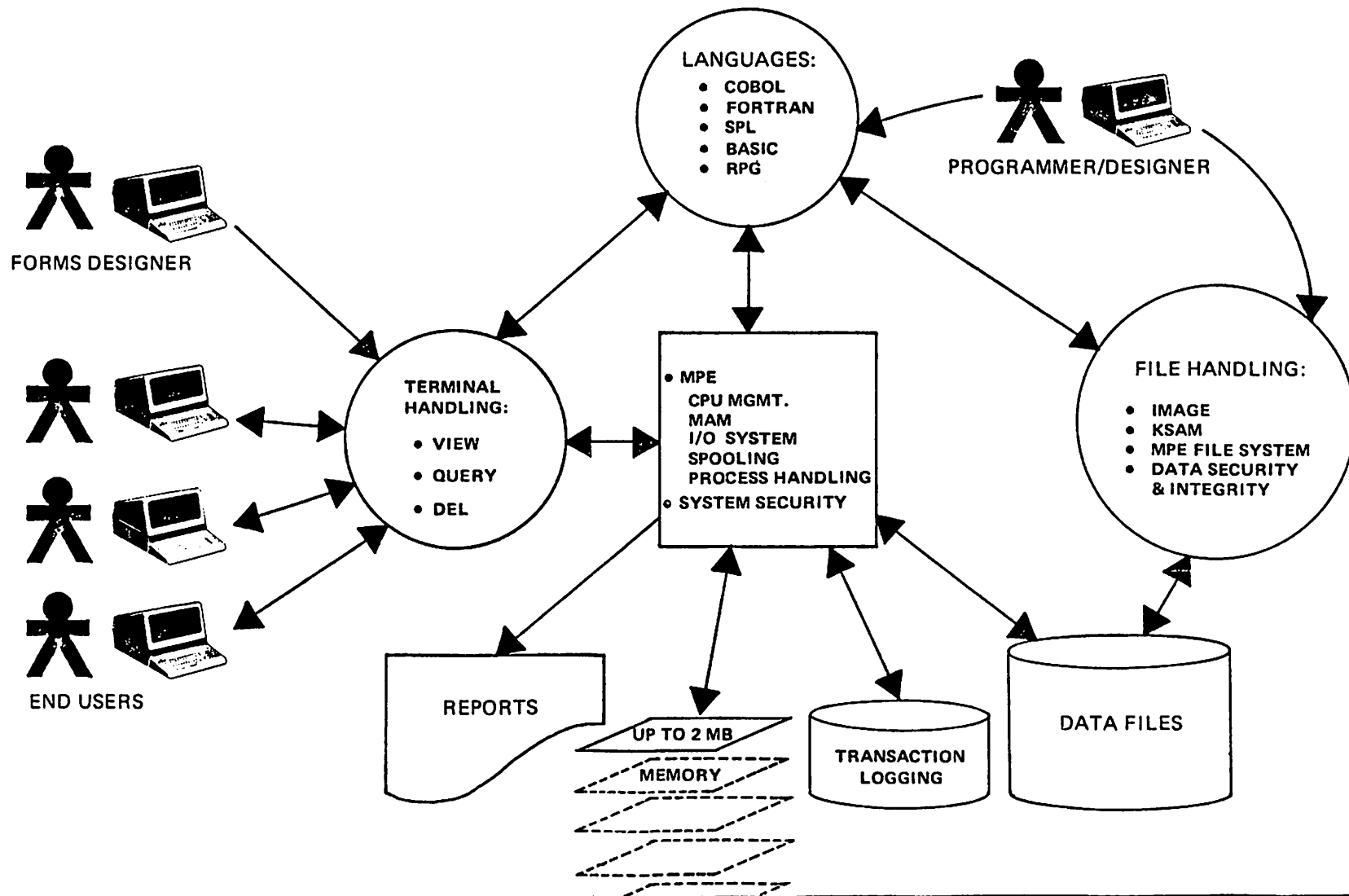
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VIEW/3000

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VIEW/3000

AVAILABLE RESOURCES FOR A TRANSACTION PROCESSING SYSTEM ON THE HP3000



PRODUCT DESCRIPTION

.....

VIEW/3000

IS A SOFTWARE PACKAGE THAT PROVIDES
TWO MAJOR CAPABILITIES:

- o A SELF-CONTAINED DATA ENTRY SYSTEM ...
can be implemented with no programming effort, and a FORMS SPECIFICATION UTILITY for drawing forms, defining simple and advanced editing.
- o A FRONT-END TO TRANSACTION PROCESSING APPLICATIONS ...
using the FORMSPEC utility and an extensive library of high-level procedures to facilitate terminal-oriented and user-written applications.

HOW DOES VIEW COMPARE TO DEL???

- DEL AND VIEW ARE "NOT" COMPATIBLE
- VIEW IS A CAPABILITIES ENHANCEMENT
- VIEW IS NOT A PERFORMANCE ENHANCEMENT
- VIEW SHOULD BE FOCUSED ON AS A "NEW" DATA ENTRY PRODUCT "NOT" AS AN ENHANCEMENT OF DEL.

VIEW/3000

"STAND-ALONE SOURCE DATA ENTRY PACKAGE"

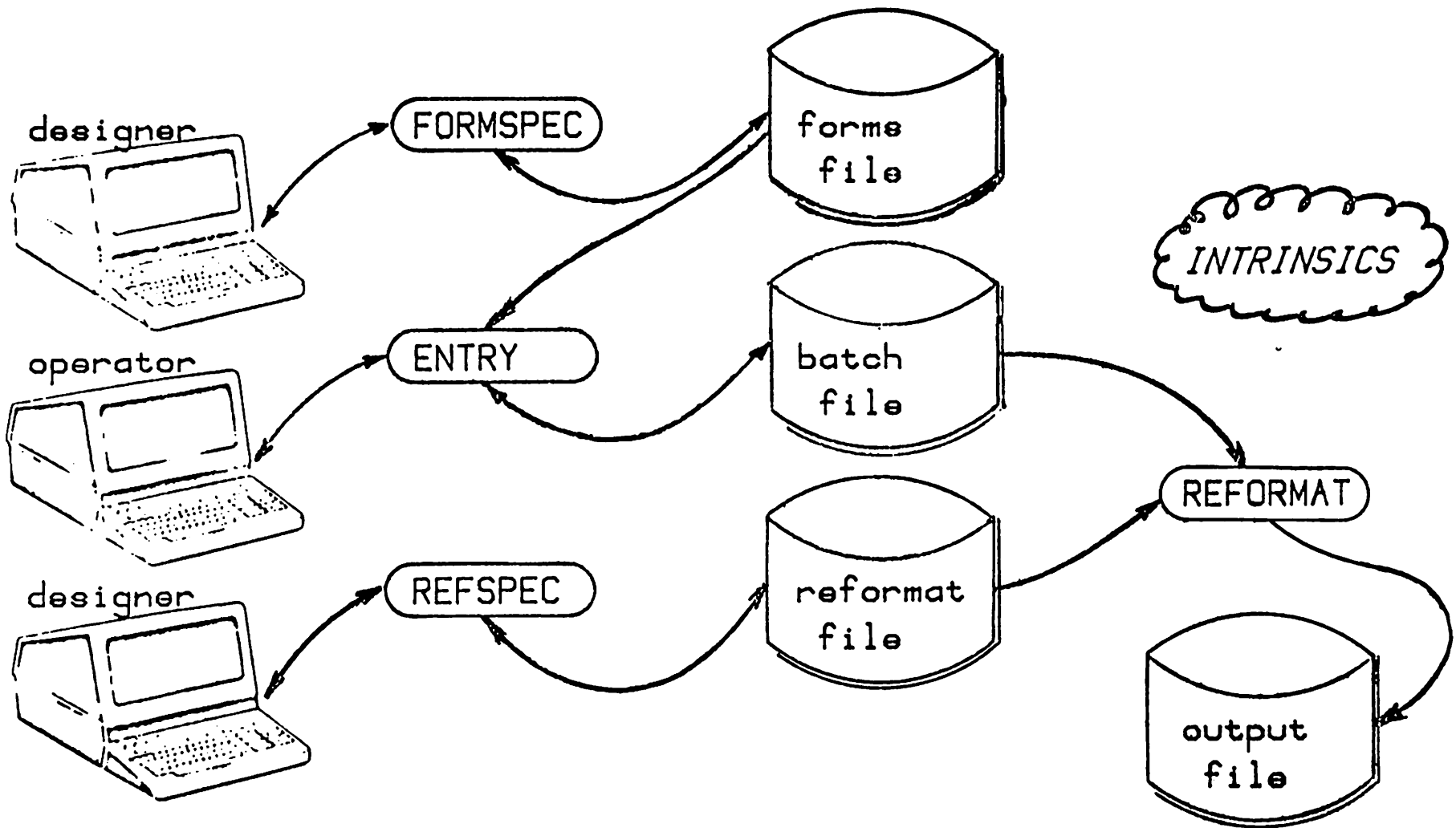
- NO PROGRAMMING EFFORT
- FILL-IN-THE-BLANKS DESIGN
- FREE FORM DRAWING
- START ENTERING DATA IMMEDIATELY
- REFORMATTING CAPABILITY
- PRE-SET FUNCTION KEYS

VIEW/3000

"FRONT-END TO TRANSACTION PROCESSING"

- COBOL, RPG, BASIC, FORTRAN AND SPL INTERFACE
- SIMPLE DESIGN, TEST, IMPLEMENTATION, AND MAINTENANCE
- PROGRAMMER PRODUCTIVITY INCREASES

VIEW/3000 - main components



FORMSPEC.X.05.00 Forms File Menu

Forms File Name [ORDFORM]

Key File Name [ORDKEY] (only if new)

FORMSPEC X.05.00 Main Menu FORMS FILE: ORDFORM

[A] Enter Selection

A--Add a form

S--Add a Save field

G--Go to GLOBALS Menu, OR Go to form [] field []

L--List Forms File, OR List form ... []

D--Delete Save field []
Form []

C--Copy new form name []
from form []
from Forms File (opt) []

X--Compile Forms File
Optional: Fast Forms File []
Key File [] (only if new)

FORMSPEC X.05.00 Form Menu

FORMS FILE: ORDFORM

Form Name [SHIPTD]

Repeat Option [N]

N--No Repeat
A--Repeat, appending
R--Repeat, overlaying

Next Form [C]

Name [\$HEAD]

C--Clear before Next Form
A--Append Next Form
F--Freeze, then append Next Form

Comments [Purchase Order Form]

* * * ENTER A NEW PURCHASE ORDER * * *

DATE: [date]

SHIP TO: [name]
 [addr1]
 [addr2] ZIP [zip]

ORDER #	QTY.	PART #	PRICE
[ordernum]	[qty]	[partnum]	[price]

Comprehensive Data Editing & Formatting

High-level language for editing/formatting
specification:

- Length check
- Range check
- Table check
- Comparison for $< = >$
- Justify
- Fill
- Arithmetic expressions
- Pattern match
- Field moves
- Logical/conditional
(if-then-else)
- Modulus 10/11
check digits
- Custom error messages

P H A S E S

INIT

PERFORMS STATEMENTS DURING THE INITIALIZATION PHASE.
FOR EXAMPLE: SET TO 100.00

FIELD

PERFORMS THE STATEMENTS DURING THE FIELD PHASE UNTIL
DATA IS ERROR FREE.
FOR EXAMPLE: IN 20:200; IF IN 100:200 THEN JUSTIFY RIGHT

FINISH

PERFORMS STATEMENTS DURING THE WRAP-UP.
FOR EXAMPLE: SET TO SFIELD1; CHANGE NFROM TO \$END

FORMSPEC X.05.00 Main Menu FORMS FILE: ORDFORM

[X] Enter Selection

A--Add a form

S--Add a Save field

G--Go to GLDBALS Menu, OR Go to form [] field []

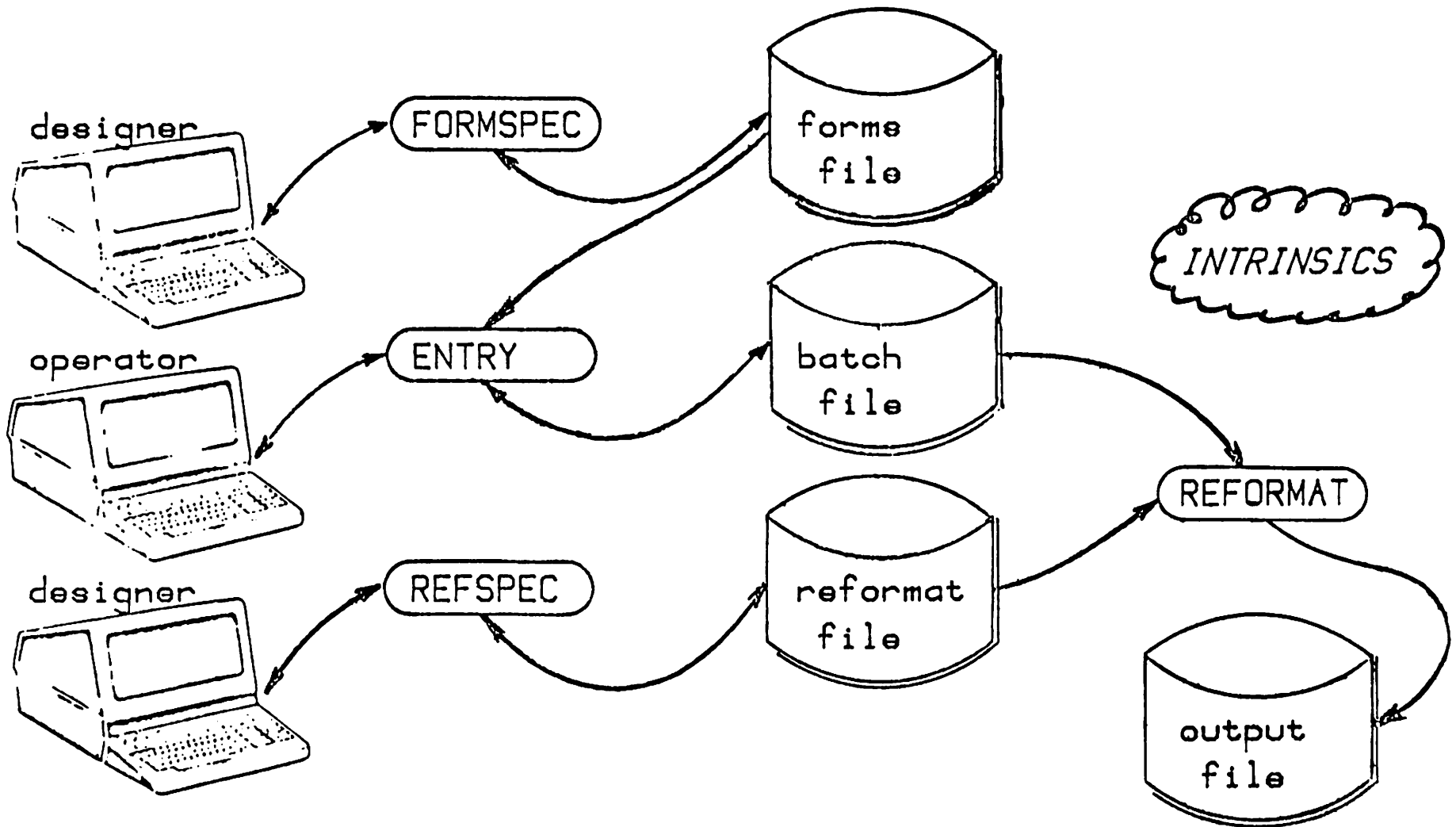
L--List Forms File, OR List form ... []

D--Delete Save field []
Form []

C--Copy new form name []
from form []
from Forms File (opt) []

X--Compile Forms File
Optional: Fast Forms File []
Key File [] (only if new)

VIEW/3000 - main components



Friendly, Ready-To-Run Data Entry Program

- **Provides standard data entry features via special function keys**
 - “Browse” through already entered data
 - Modify and/or delete already entered data
 - Resume to prior point of data collection
- **Allows immediate execution of data entry formats and editing without use of compilers**
- **Stores data records in MPE sequential files**

:RUN ENTRY.PUB.SYS

HP32209X.05.00 ENTRY (C) HEWLETT-PACKARD CO. 1978

Enter Forms File name and press RETURN: ORDFORM

Enter Batch File name and press RETURN: BATCHFL

-

* * * ENTER A NEW PURCHASE ORDER * * *

DATE: [date]

SHIP TO: [name]
 [addr1]
 [addr2] ZIP [zip]

ORDER #	QTY.	PART #	PRICE
[ordernum]	[qty]	[partnum]	[price]

* * * ENTER A NEW PURCHASE ORDER * * *

DATE: [10/13/78]

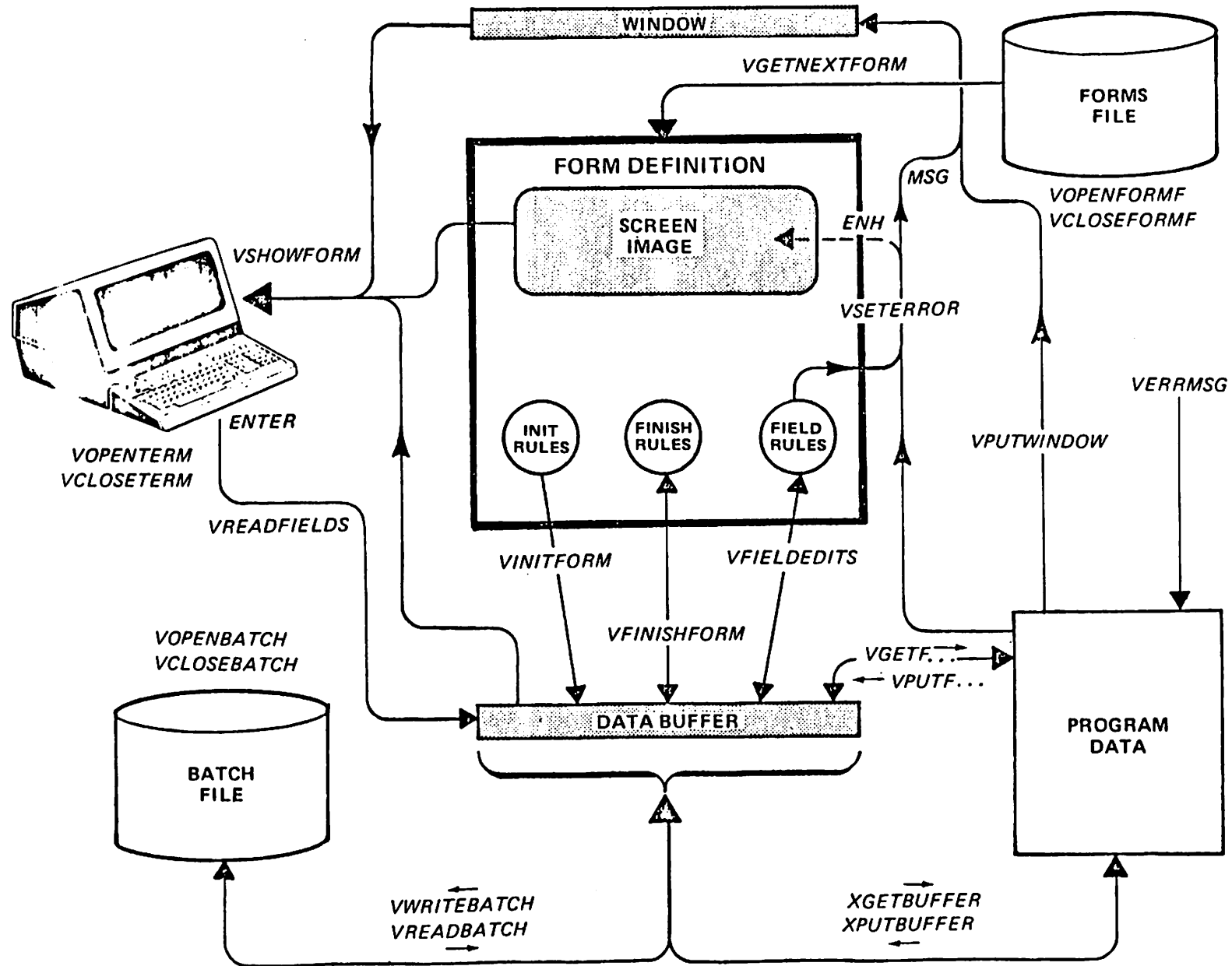
SHIP TO: [APEX Manufacturing Co.]
[21019 Main Street]
[Monterey, California] ZIP [95021]ORDER #
[PD-223105]QTY.
[125]PART #
[453992-1001]PRICE
[11.75]

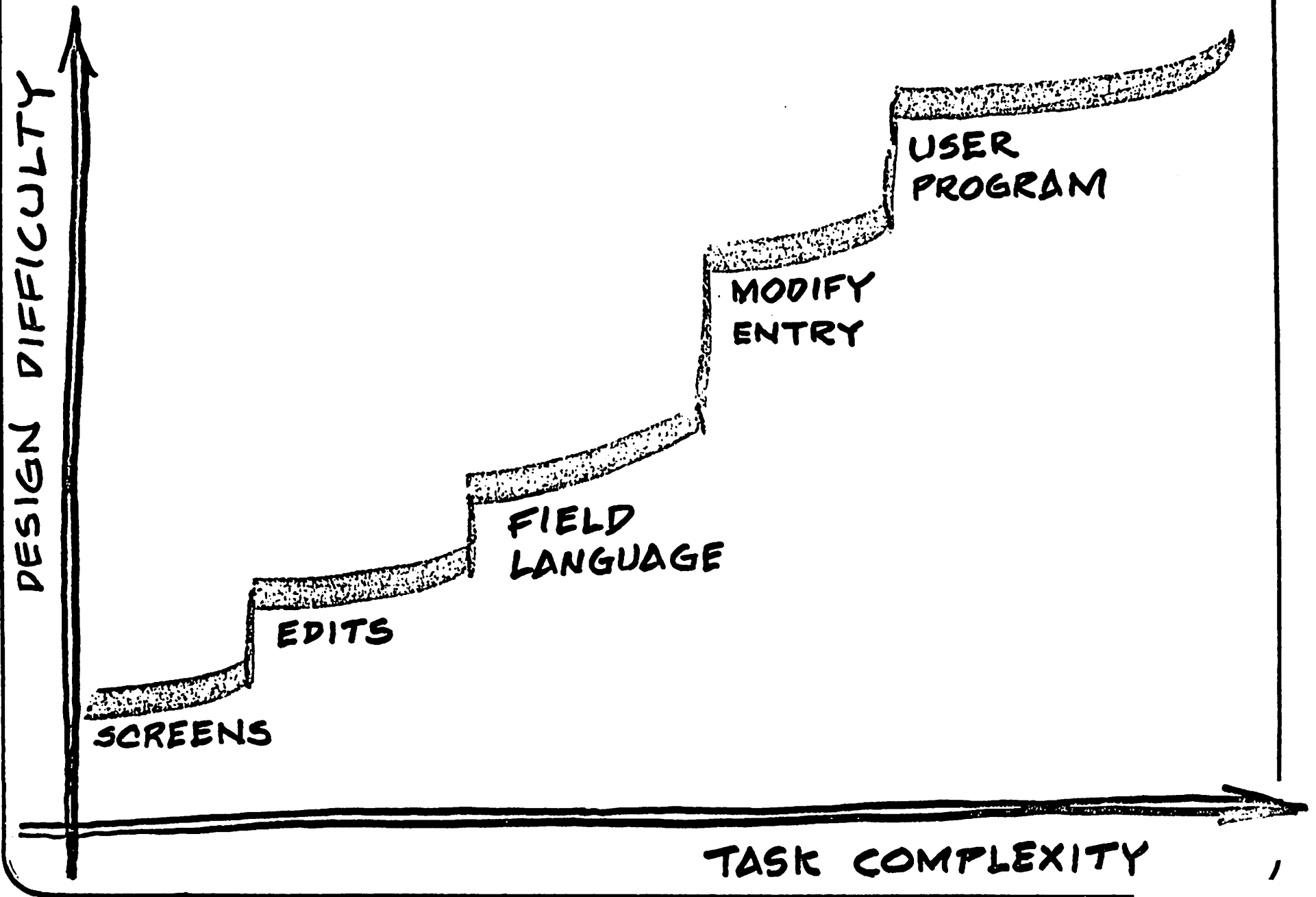
ENTRY X.05.00 Batch Record #1 Mode: Collect

USER-WRITTEN PROGRAMS

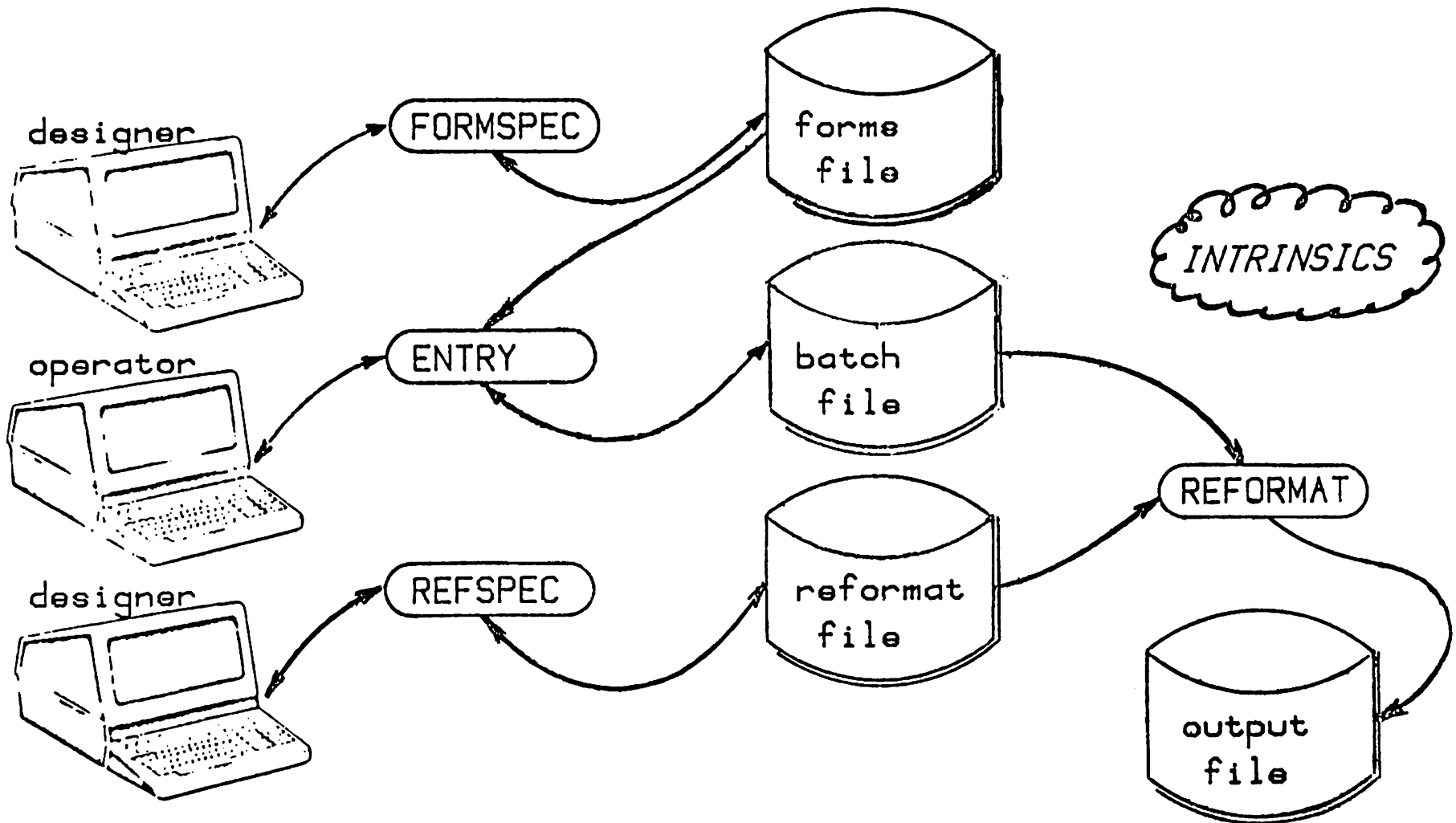
- 1 INTERFACES WITH 5 LANGUAGES: RPG, COBOL, FORTRAN, BASIC, SPL.
- 2 MANAGES INTERFACE BETWEEN PROGRAM AND TERMINAL, FORMS FILE, AND ENTERED DATA:
- 3 PHYSICAL ORDER OR LOCATION OF THE DATA FIELDS ON THE SCREEN IS IRRELEVANT TO THE APPLICATION PROGRAM.

VIEW/3000 INTRINSICS





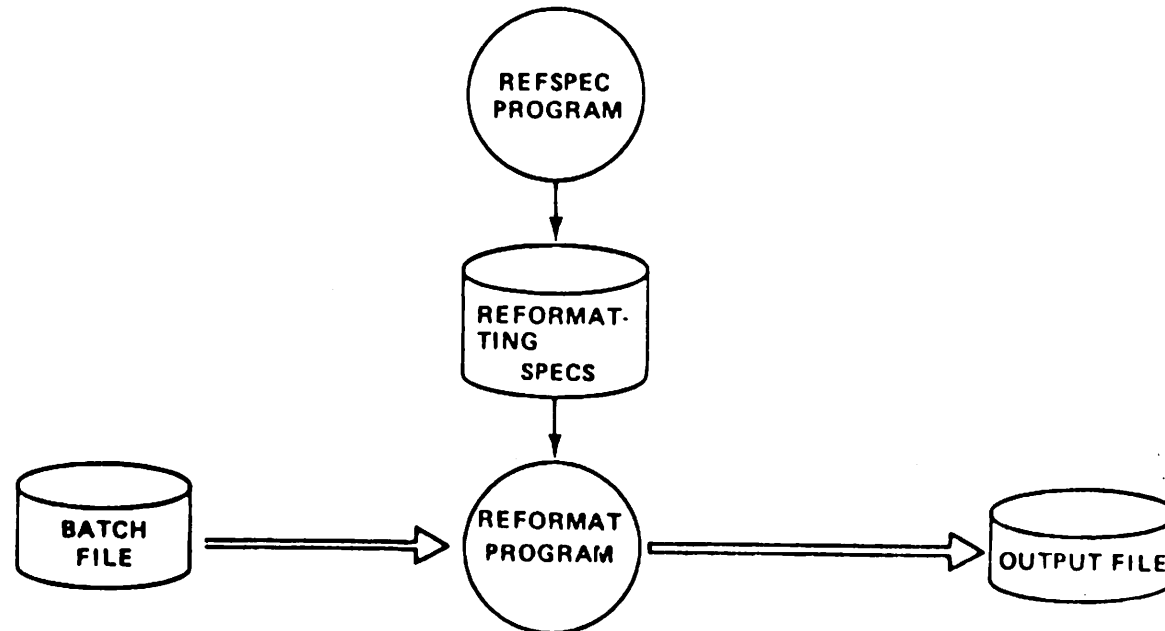
VIEW/3000 - main components



Flexible Reformatting Utility

A separate batch program to:

- Meet data format requirements of existing programs
- Perform batch-type formatting
 - Combine data from several forms into a single record
 - Split data from a single form into two or more records
 - Rearrange data within a record
 - Adjust data within a field (e.g., “justify” or “fill”)



REFSPEC X.05.00 Main Menu REFORMAT FILE: REFSPE

Enter Selection [A]

A--Add a reformat
X--Compile Reformat File
G--Go to GLOBALS Menu
F--Go to FORMS FILE Menu

G--Go to	<u>reformat id</u>	<u>output field</u>
L--List	<u>reformat id</u>	
D--Delete		<u>reformat id</u>

[REFORMAT ID]

[OUTPUT FIELD]

REFSPEC X.05.00 Globals Menu

REFORMAT FILE: REFSPE

Output Record Format ☐

F--Fixed length records

V--Variable length records

U--Undefined length records

Record Length (bytes)Upshift? ☐ Yes/NoConvert to EBCDIC? ☐ Yes/No

Record Terminator String _____

Field Separator String _____

REFSPEC X.05.00 Input Forms Menu REFORMAT FILE: REFSRF

Forms in Input Sequence: [SHIPTO_] (Reformat identifier)

[]

[]

[]

[]

[]

[]

[]

[]

[]

REFSPEC X.05.00 Output Record Menu REFORMAT IDENTIFIER: SHIPTD

<u>INPUT</u>			<u>OUTPUT</u>		
Field Name	Substring Strt Len	Form Name	Field Name	Strt Col	Len Strt Rec
DATE					*
NAME				20	
ADDR2					
DATE			DATE1		*
ORDERNUM					
PARTNUM					
QTY					
PRICE					-

REFSPEC X.05.00 Output Field Menu: REFORMAT IDENTIFIER: SHIPTO

INPUT Field: DATE Start: 1 Length: 12 Form: SHIPTO
OUTPUT Field: DATE Start: 1 Length: 12 Data Type: CHAR

STRIP All Leading Trailing

INSERT CHECK DIGIT 10/11

JUSTIFY

L--Left
R--Right
C--Center

SIGN

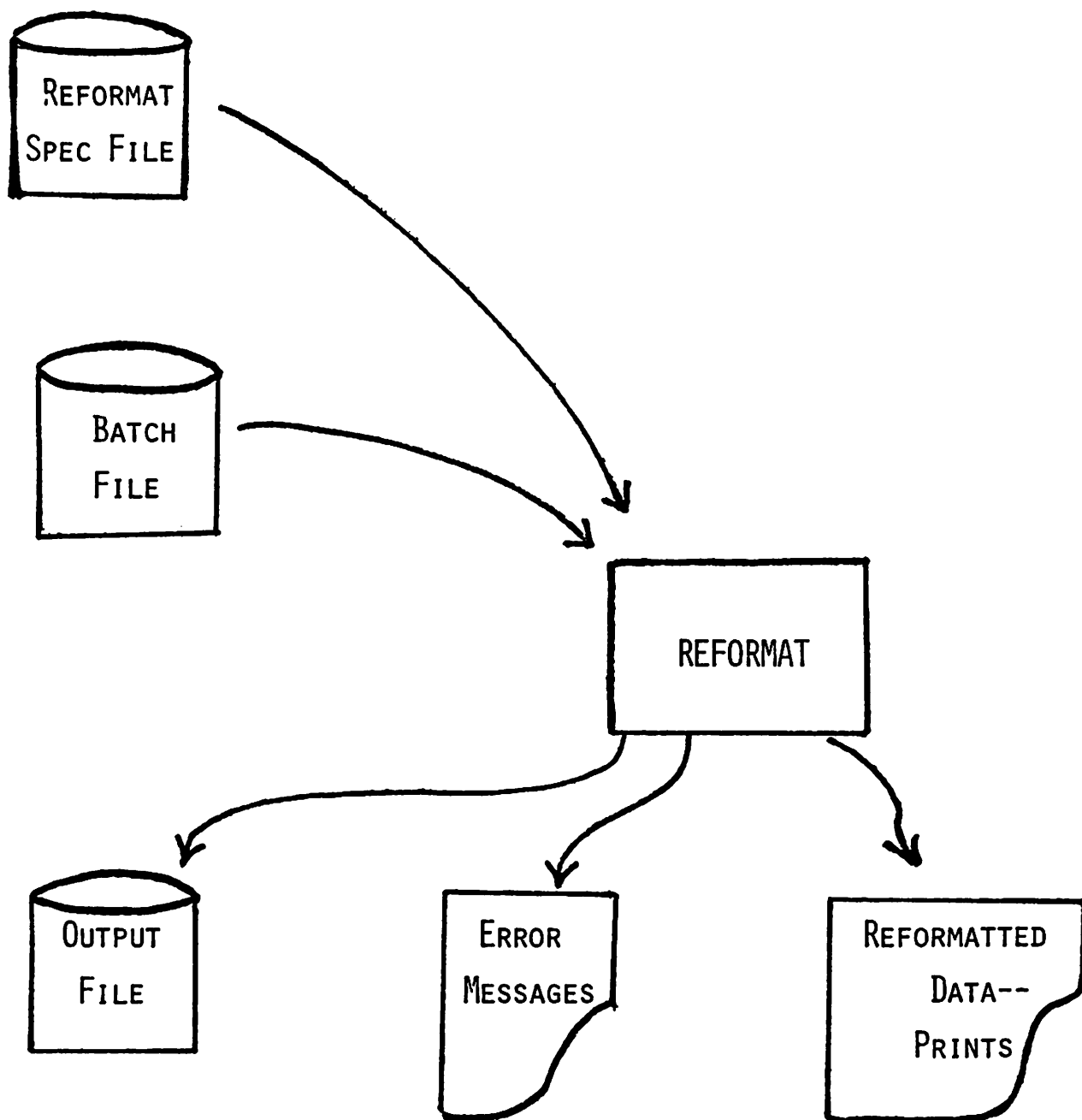
F--Float
L--Left
R--Right
Z--Zoned
N--No sign

PLUS SIGN? Y/N

FILL All

Leading

Trailing



Summary

■ What is it?

- Stand-alone source data entry
- Front-end to transaction processing systems

■ Major features!

- Simple forms design
- Comprehensive editing
- Data entry without programming
- Reformatting to meet existing requirements
- Adaptable language interface
(BASIC, COBOL, FORTRAN, RPG, SPL)