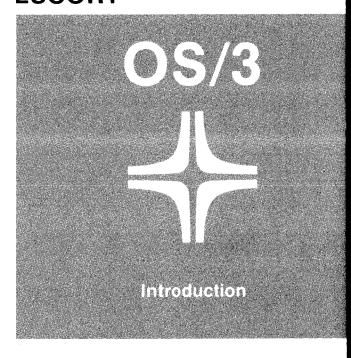
ESCORT





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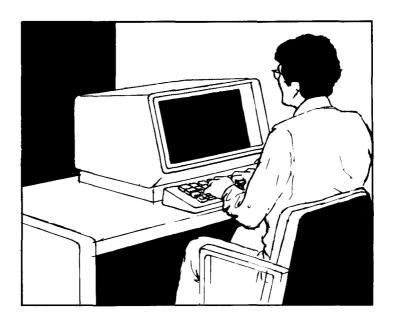
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programming without programmers

What if I were to tell you that Sperry Univac makes it possible for you to program a computer even though you're not a programmer . . . actually do your own programming when you want to, and in the way you want it done.



Well, it's true. ESCORT, a SPERRY UNIVAC high-level, general-purpose programming language, is effective, fast, powerful, and easy to use. So easy, that you, or one of your employees, without lengthy training, can tell your SPERRY UNIVAC computer what to do in simple English.

No other high-level computer language is as simple and easy to use as ESCORT – it is unique and revolutionary. With ESCORT, you can easily perform many everyday business data processing functions without the need for a professional programmer.

why ESCORT?

Your business is individualistic . . . so are your needs.

Although the standard application programs available with the computer system are comprehensive and detailed, quite often a report is needed that's unique to your business or, perhaps, it's just an item of information from your files that you want to retrieve. Simply by calling on ESCORT at your workstation, you can create your own program in an interactive dialog with the computer, which generates a report or extracts information from your data and master files.



Because ESCORT is easy to understand and learn, you can perform many data processing tasks almost from the beginning. Think what that could mean to you. Ordinarily, you'd hire a programmer at considerable expense and spend valuable time training him in your business – defining the requirements and solutions desired. By the time you get the information you want, it's outdated.

With ESCORT, you get the information you need when you need it. If you like, you can have reports that contain the extracted data sorted, summarized, titled, or altered to meet your business requirements.

ESCORT also allows you to keep your active data files current (adding, deleting, or changing records) or to create totally new data files as you discover new uses for your computer.

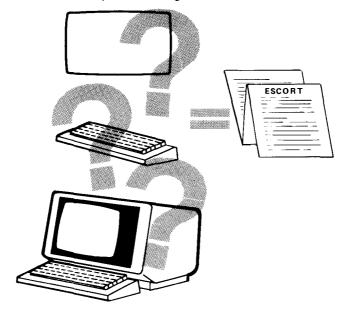
As simple as it is, ESCORT is sophisticated enough for the professional programmer to use in performing many complex and more demanding tasks – and with remarkable ease and speed. Regardless of how you use it, with or without a programmer, ESCORT provides viable solutions for your individual, and often critical, data processing needs.

how ESCORT works

ESCORT uses brief, concise, English-language statements to describe each computer operation just as you might verbally instruct someone. The statements are made in either of two operating modes – *tutorial* or *program*.

In the *tutorial mode*, ESCORT teaches you the language – step by step – as it leads you along in building a usable program.

A series of multiple choice questions is presented on the screen – in simple, understandable English. After you answer them, your ESCORT program is displayed on the screen. You can build a program as easily as that, using it immediately or storing it for future use.





If a tutorial question is not fully understandable or needs further explanation, you can call for help and get it. The *HELP* feature lets you access cataloged information to clarify the subject of your concern. In effect, ESCORT makes sure that your programming isn't halted by an unfamiliar term or a misunderstood tutorial question.

As your expertise in ESCORT program development improves, you enter programs on your own, using one of two methods in *program mode*. You can input statements directly, or use program mode screen menus, similar to but not as elementary as tutorial mode. If you have difficulty with program mode, you can use the tutorial mode's question-and-answer method to create a program.

ESCORT at work

Now that you know what ESCORT is, and you have a pretty good idea of the advantages it offers, here are some examples of how it's used.

The activity illustrated was performed by a non-programmer like yourself, with only basic instruction in the use of ESCORT. What this non-programmer has done, you can do, and much more, with the aid of ESCORT.

REPORT GENERATION

With just a simple 3-line ESCORT program, you can check an inventory file to determine if you need to reorder stock items. Your file for this example is INVNTORY, and its structure contains the following fields:

STRUCTURE OF INVNTORY	EXPLANATION OF FIELD NAMES
PRODNO	Product number
PRODESC	Product description
UNITSIZE	Unit size
UNITCOST	Cost of unit
MARKUP	Retail markup
RETPRICE	Retail selling price
QONHAND	Quantity on hand
QONORDER	Quantity on order
REORDERL	Reorder level
QUANDISC	Quantity discount percentage
VENDNAME	Vendor name for reorder
VENDADDR	Vendor address for reorder
VENDZIP	Vendor zip code

The program you write extracts data from the IN-VNTORY file if the field QONHAND is less than or equal to the field REORDERL and provides a printer listing of all records meeting this condition. Using the program mode's direct entry method, you enter this program:

```
SELECT DATA OF INVNTORY
IF QONHAND LE REORDERL
PRINT PRODNO, PRODESC, VENDNAME, VENDADDR, VENDZIP
```

Those INVNTORY records where the quantity on hand is less than or equal to the reorder level are printed on the printer. However, instead of seeing the complete record, you see only the fields listed in the PRINT clause. Your output appears as:

O DATE 81	/11/10 TIME	98:89:80 SYSTEM 8	BB - ESCORT DATA LISTING	PAGE 1	0
PRODNO	PRODESC	<u> Y E N D N A M E</u>	<u>Y E N D A D D R</u>	VENDZIP	0
912643	RADIO	DCP ELECTRONICS	RD 2, BLUE BELL, PA	19424	0
O 246818	CLOCK	KAPHIL, INC.	123 MAIN, LIMA, PA	18756	
0 629342	STEREO	DAVID J. DIST.	806 FEDERAL, CAINE, NY	43675	lol
879849	RECORD	GOLDEN DIST.	1201 RYAN, OCALA, FLA.	23456	0

NEW APPLICATIONS

With ESCORT, you can easily create a customer mailing list – add names to it, change it, and keep it current.

Your file for this example is MAILFILE, and it contains the following structure fields:

STRUCTURE OF MAILFILE

NAME

COMPANY

ADDRESS

CITY

STATE

ZIP

ENTER DATA FROM WS CREATING MAILFILE

When you execute this program statement, a display appears on the screen – prompting you, with blank spaces, to supply the customer information.

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Once you enter the required information, it appears on your workstation screen:

NAME: HAROLD J.BROWN

COMPANY: A.J. BAKER SUPPLY

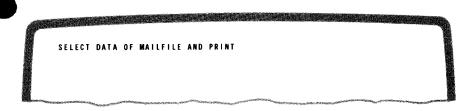
ADDRESS: 2525 CONCOURSE WAY

CITY: BLUE BELL

STATE: PA.

Z1P: 19424

By pressing the XMIT key, the information is stored in the *mailfile* and you are prompted by the previous screen to continue adding to your mailing list. To extract and print a list of all the customers in your *mailfile*, simply enter this statement:



Most data, especially a customer mailing list, requires updating from time to time. To update your *mailfile*, direct the computer to change information from the workstation:

CHANGE DATA OF MAILFILE FROM WS

Assuming that you have an indexed (keyed) file and NAME is the key field, you receive the following prompt:

4		À
		ĺ
	NAME:	 i

Key in the name of the customer whose record you want to change. Then, ESCORT displays the record for that customer, and you change the old address to a new one.

NAME: HAROLD J. BROWN

COMPANY: A.J. BAKER SUPPLY

ADDRESS: 1264 MAIN ST.

CITY: BLUE BELL

STATE: PA.

ZIP: 19424

When you press the XMIT key, that record in *mailfile* is corrected, and you can correct or change other records within the file.

DATA RETRIEVAL

To create a program that displays the sales records and calculates commission on sales for one of your salesmen, the tutorial mode will start you off – actually asking you which function you wish performed – with the following display. If at anytime you do not fully understand the choices, you can select *HELP* (item 6 on this screen) and additional explanatory screens are displayed before you answer the question.

Because you want to retrieve data from your files, enter the number 3 – indicating RETRIEVE DATA:

*** ESCORT TUTORIAL SESSION ***

- A TUTORIAL SESSION IS PRIMARILY A QUESTION AND ANSWER TYPE OF ENVIRONMENT IN WHICH YOU RESPOND BY SELECTING ONE OF SEVERAL AVAILABLE OPTIONS. OCCASIONALLY YOU ARE REQUIRED TO PROVIDE BRIEF TEXT ENTRIES.
- BEGIN BY IDENTIFYING THE PRIMARY PROGRAM FUNCTION:
- 1. ENTER DATA FROM WORKSTATION
- 2. CHANGE DATA
- B. RETRIEVE DATA (SELECT)
- 4. DELETE DATA
- 5. SORT DATA
- +6. HELP EXPLANATION OF OPTIONS
- * ENTER SELECTION NUMBER ... 3

NOTE:

Plus signs (+) on tutorial screens indicate default choices. When you want the default selection, you need not key in a number, just press the XMIT key.

Once you choose data retrieval, ESCORT asks you what method you want to use to retrieve it. Because you want to specify conditions, choose number 2:

- RETRIEVE DATA FUNCTION (SELECT) ENABLED *
 SELECT ONE OF THE FOLLOWING OPTIONS TO RETRIEVE
 THE DATA:
- 1. SELECT DATA FROM WORKSTATION
- 2. SELECT DATA WITH CONDITIONS ('IF' CLAUSE)
- 3. SELECT ALL DATA
- +4. HELP EXPLANATION OF OPTIONS
 - * ENTER SELECTION NUMBER ... 2

The information you want retrieved is in a transaction file named SALEFILE, so you key in that name on the next screen:

RETRIEVE MASTER

ENTER THE NAME OF THE FILE. CONFORMING TO THE FOLLOWING RULES:

- THE FILENAME MAY BE FROM 1 TO 44 CHARACTERS LONG.
- BASICALLY, ONLY LETTERS (A-Z), NUMBERS (0-9), AND THE CHARACTERS SLASH (/) AND PERIOD (.) MAY BE USED. THE FIRST CHARACTER MUST BE A LETTER, AND EMBEDDED BLANKS ARE NOT ALLOWED.
- IF THE FILENAME IS ENCLOSED IN DOUBLE QUOTES (''). ANY CHARACTER EXCEPT A SINGLE QUOTE (') OR A DOUBLE QUOTE MAY BE INCLUDED. AND EMBEDDED BLANKS ARE ALLOWED.

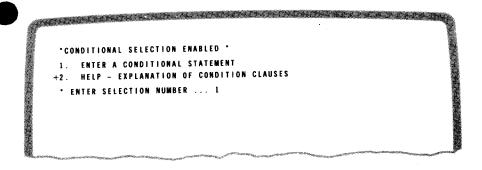
EXAMPLES: PAYROLL

XYZCO/PAYABLES.TAXES

''INVENTORY MASTER FILE''

*ENTER A VALID FILENAME ... SALEFILE

Then, because you chose SELECT DATA WITH CONDITIONS, you choose number 1:



A screen containing a sample conditional statement then prompts you on how to enter your own conditional statement:

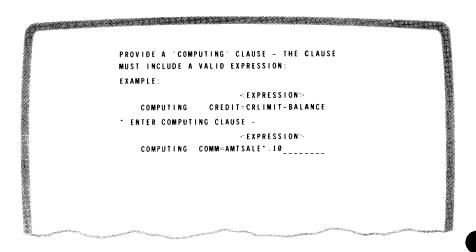
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ESCORT then asks whether you want to perform calculations on your data. Because you want to compute the salesman's commission on each transaction, choose number 1.

DO YOU WISH TO PERFORM ANY CALCULATIONS
ON YOUR RETRIEVED DATA

1. YES - ENTER A 'COMPUTING' CLAUSE.
2. NO - CONTINUE WITH PROGRAM
+3. HELP - EXPLANATION OF 'COMPUTING' CLAUSE
* ENTER SELECTION NUMBER ... 1

A screen showing a sample calculation appears and prompts you to enter your own calculation:



Now you have the option to print or display your data.

DO YOU WISH TO DISPLAY OR PRINT YOUR
RETRIEVED DATA?

1. YES - DISPLAY OR PRINT THE DATA
2. NO - CONTINUE WITH PROGRAM
+3. HELP - EXPLANATION OF 'DISPLAY' AND 'PRINT' CLAUSES
* ENTER SELECTION NUMBER ... 1

If you choose YES, ESCORT asks how you want your data output:

SPECIFY ONE OF THE FOLLOWING OPTIONS TO EXAMINE YOUR DATA:

1. DISPLAY THE DATA TO THE WORKSTATION (DISPLAY)
+2. PRINT THE DATA (PRINT)
• ENTER SELECTION NUMBER ... 2

Your completed program looks like this:

SELECT DATA OF
SALEFILE
IF SALESMAN EQ Ø1
COMPUTING COMM=AMTSALE*.10
PRINT END

This selects data from your file named SALEFILE only if the salesman number is O1, computes commission on these transactions, and outputs your data to the printer.

Then you execute your program by choosing number 2.

* ESCORT PROGRAM COMPLETED *

WHAT WOULD YOU LIKE TO DO NEXT?

SELECT ONE OF THE FOLLOWING OPTIONS:

1. SAVE THE PROGRAM

2. EXECUTE THE PROGRAM

3. CREATE ANOTHER PROGRAM IN TUTORIAL MODE

4. TERMINATE TUTORIAL AND RETURN TO COMMAND MODE

+5. HELP - EXPLANATION OF OPTIONS

* ENTER SELECTION NUMBER ... 2

Your output prints every record whose salesman number is 01 and computes the commission (COMM) on the transaction.

```
DATE 81/11/10 TIME 08:00:00 -- SYSTEM 80 - ESCORT DATA LISTING--PAGE 1
                      DATE
                              AMTSALE
           CUSTNO
                                         589.90
                              5899.00
           12345
                      5/21
Ø 1
                                         756.40
                      1/23
                              7564.00
           57269
Ø 1
                       9/5
                               708.00
                                          70.80
           99854
                               48.50
                                          4.85
61
           72105
                       8/9
                    12/21
                               937.68
                                          93.77
           72325
a 1
```

summary

The ESCORT language is unique in the industry because it is so simple to learn and use. It puts a new kind of computer power right at your fingertips, even if you've never used or seen a computer before

Create . . . change . . . and retrieve – these are the basic data processing tasks so important to the efficient and profitable operation of any business. And, with the ESCORT language, one of the most innovative computer languages available anywhere, you can perform these tasks quickly and easily – in fact, actually do them as you learn. ESCORT simplifies practically every job so you can get the most out of your SPERRY UNIVAC computer and standard applications programs.

We've shown you just a few examples of how you can use ESCORT in your business. But, that is just the beginning.

