

HEWLETT  PACKARD

SERIES

98
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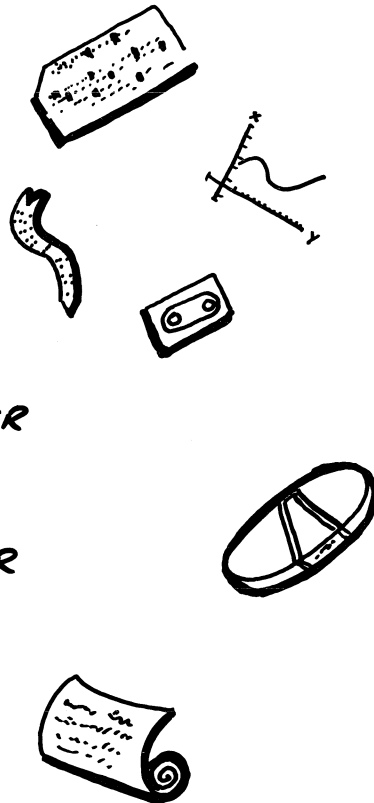
CALCULATOR

WHAT COMPRISES THE 9800 SERIES?

- * 9810 A MAINFRAME CALCULATOR
- * 9820 A MAINFRAME CALCULATOR
- * 9821 A MAINFRAME CALCULATOR
- * 9830 A MAINFRAME CALCULATOR

* ————— *

- 9860 A CARD READER
- 9861 A TYPEWRITER
- 9862 A X-Y PLOTTER
- 9863 A TAPE READER
- 9864 A DIGITIZER
- 9865 A CASSETTE MEMORY
- 9866 A THERMAL LINE PRINTER
- 9868 A EXPANDER BOX
- 9869 A HOPPER CARD READER
- 9870 A CARD READER
- 9880 A/B MASS MEMORY
- 2607 A LINE PRINTER
- 2748 B TAPE READER
- 8100 TAPE PUNCH



PLUS!


READ ONLY MEMORY
OR
ROM's

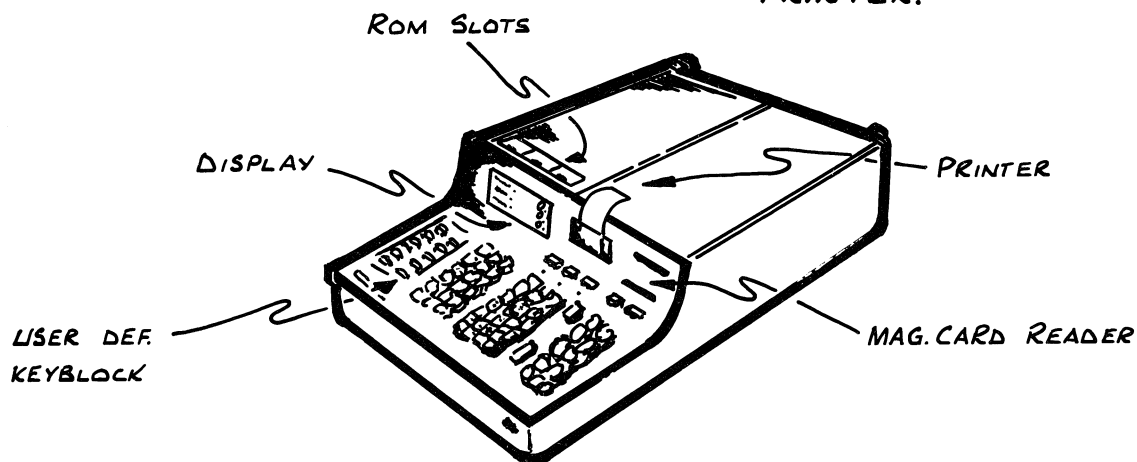


MODEL

10

9810A CALCULATOR

- * LANGUAGE REVERSE POLISH NOTATION
- * KEYBOARD..... KEY PER FUNCTION
- * ROM SIZE..... 5 K TO 11 K (BYTES)
- * RWM SIZE..... 908 TO 2924 (BYTES)
- * I/O STRUCTURE..... GENERAL
- * USER DEFINABLE KEYS..... OPTIONAL — SINGLE KEY
— SUB-ROUTINE
- * RECORDING DEVICE..... MAGNETIC CARD READER
CASSETTE OPTIONAL
- * DISPLAY..... 3 REGISTER NUMERIC
LED
- * PRIMARY PRINTER..... OPTIONAL
16 COLUMN ALPHA /
NUMERIC, THERMAL
PRINTER.

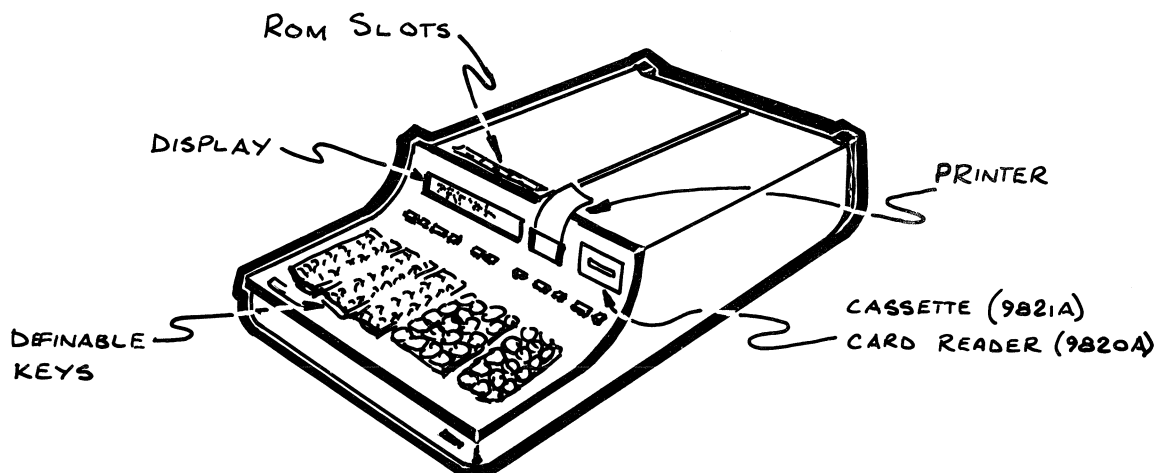


HEWLETT  PACKARD

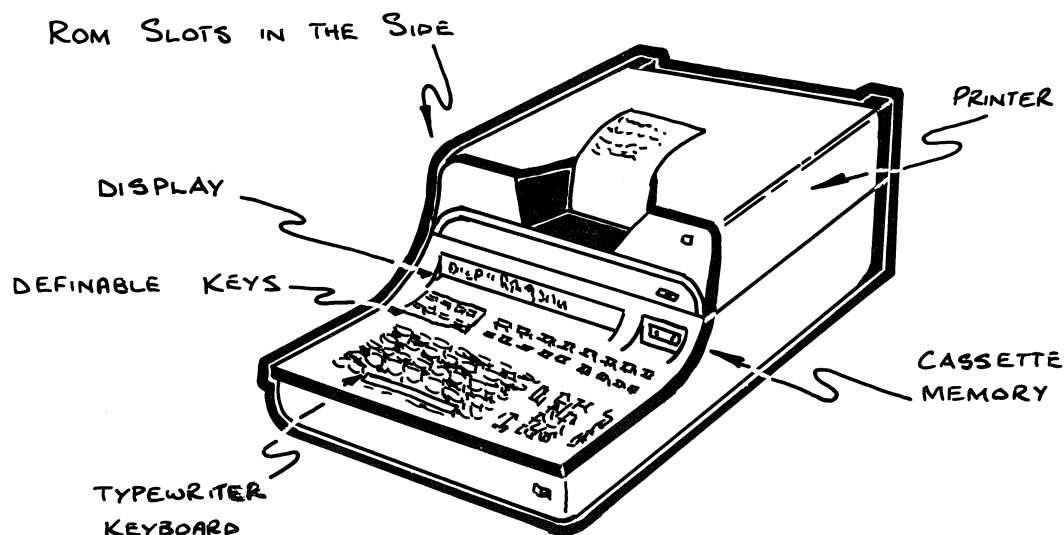
MODEL
20

9820A CALCULATOR

- * **LANGUAGE** ALGEBRAIC
- * **KEYBOARD** KEY PER FUNCTION
- * **ROM SIZE** 8K TO 14K (BYTES)
- * **RWM SIZE** 1384 TO 3432 (BYTES)
- * **I/O STRUCTURE** GENERAL
- * **USER DEFINABLE KEYS** OPTIONAL - SINGLE KEY
- SUB-ROUTINE
- FUNCTIONS
- * **RECORDING DEVICE** MAGNETIC CARD (9820A)
CASSETTE (9821A)
- * **DISPLAY** 16 CHARACTER ALPHA/NUMERIC
LED.
- * **PRIMARY PRINTER** STANDARD 16 COLUMN
ALPHA/NUMERIC THERMAL
PRINTER.

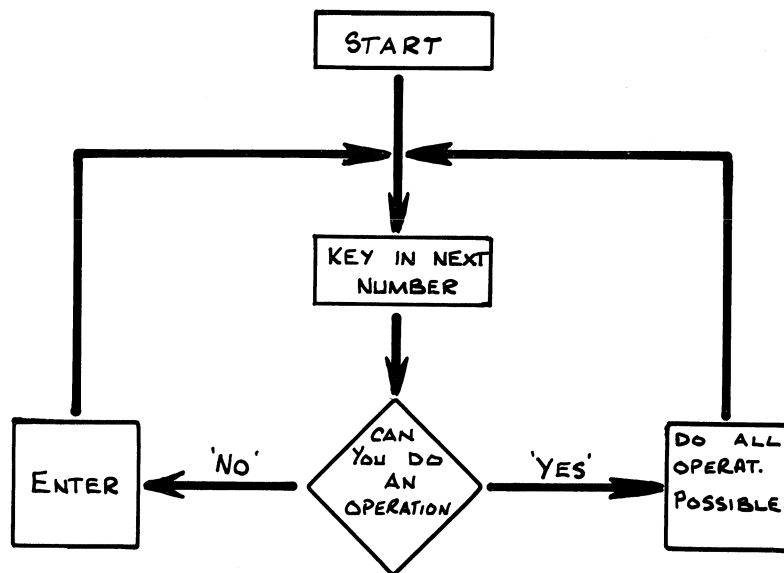


- * **LANGUAGE** ----- BASIC
- * **KEYBOARD** ----- ALPHA/NUMERIC (TYPEWRITER)
- * **ROM SIZE** ----- 15K TO 31K (BYTES)
- * **RWM SIZE** ----- 3520 TO 7616 (BYTES)
- * **I/O STRUCTURE** ----- GENERAL
- * **USER DEFINABLE KEYS** ----- STANDARD - SUB ROUTINE
- FUNCTIONS
- * **RECORDING DEVICE** ----- STANDARD CASSETTE
- * **DISPLAY** ----- 32 CHARACTERS
ALPHA/NUMERIC LED
- * **PRIMARY PRINTER** ----- OPTIONAL 80 COLUMN
THERMAL LINE PRINTER
ALPHA - NUMERIC.



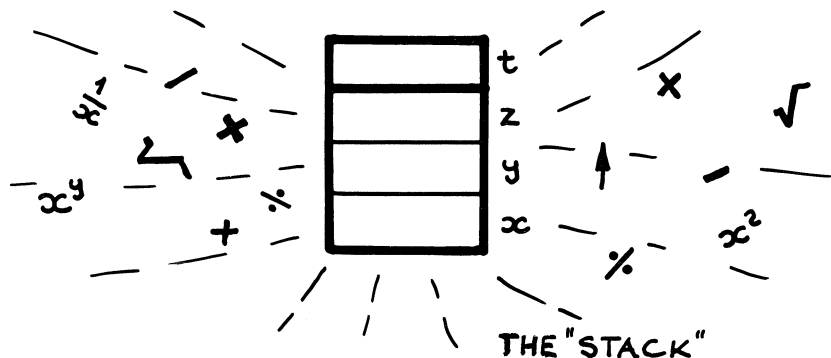
REVERSE POLISH NOTATION

* **RPN** DEVELOPED BY A POLISH MATHEMATICIAN
JAN LUKASIEWICZ



* BASED ON FOUR EASY STEPS RPN CAN BE
APPLIED TO ALMOST ALL MATHEMATICAL EXPRESSIONS *

** COMBINED WITH AN OPERATIONAL
STACK **RPN** GIVES A POWERFUL,
UNAMBIGUOUS LANGUAGE. **



ALGEBRAIC LANGUAGE

- * **C**OMBINES MANY FEATURES OF ALGOL, FORTRAN, AND BASIC
- * **P**RODUCE A HUMAN ORIENTATED. CONVERSATIONAL LANGUAGE
- * **F**OLLOWS STRUCTURE OF ALGEBRA IN SYMBOLS AND HEIRACHY.

e.g. IF $\sqrt{6} = A$; GTO 17

- * **I**NCLUDES ALSO IMPLIED MULTIPLICATION!

e.g. PRT $[-B + \sqrt{[BB - 4AC]}/2A$

- * **P**ARENTHESES CAN BE NESTED TO ANY DEPTH TO CHANGE ORDER OF EVALUATION ETC.

* THE MODEL 9820A AND 9821A USE AN *

* ALGEBRAIC LANGUAGE *

BASIC LANGUAGE

- * **P**OWERFUL HIGH LEVEL COMPUTER LANGUAGE
CLOSELY RESEMBLING THE ENGLISH LANGUAGE
- * **L**ARGE 'BASIC' LIBRARY ALREADY EXISTS
- * **E**ASILY LEARNT, AND AN INTERACTIVE, CONVERSATIONAL LANGUAGE
- * **G**OOD USE MADE OF VARIABLES, WHICH CAN
BE SINGLE OR DOUBLE SUBSCRIPT (MATRIX),
STRING VARIABLES MAY ALSO BE USED.

EXAMPLE :

```
10 DISP "ENTER COST";  
20 INPUT A  
30 PRINT "ENTER NAME"  
40 INPUT B$  
  . . . . .  
  . . . . .  
  . . . . .  
100 END
```

- * THE MODEL 9830A USES "BASIC" *

PERIPHERALS

- * THE 9800 SERIES INPUT/OUTPUT STRUCTURE IS DESIGNED FOR VERSATILE EASY USE
- * CALCULATORS CAN BE EQUIPPED WITH BOTH INTERNAL AND EXTERNAL PERIPHERALS
- * INSTRUCTION SETS FOR EXTERNAL PERIPHERALS CONTAINED IN EASILY FITTED ROM'S
e.g. PLOTTER CONTROL, I/O ROM ETC.
- * WITH THE USE OF STANDARD INTERFACE CABLES
e.g. 11202A, 11203A ETC. SPECIAL PERIPHERALS CAN BE CONNECTED.

