



Historic Hacks in Portable Computing

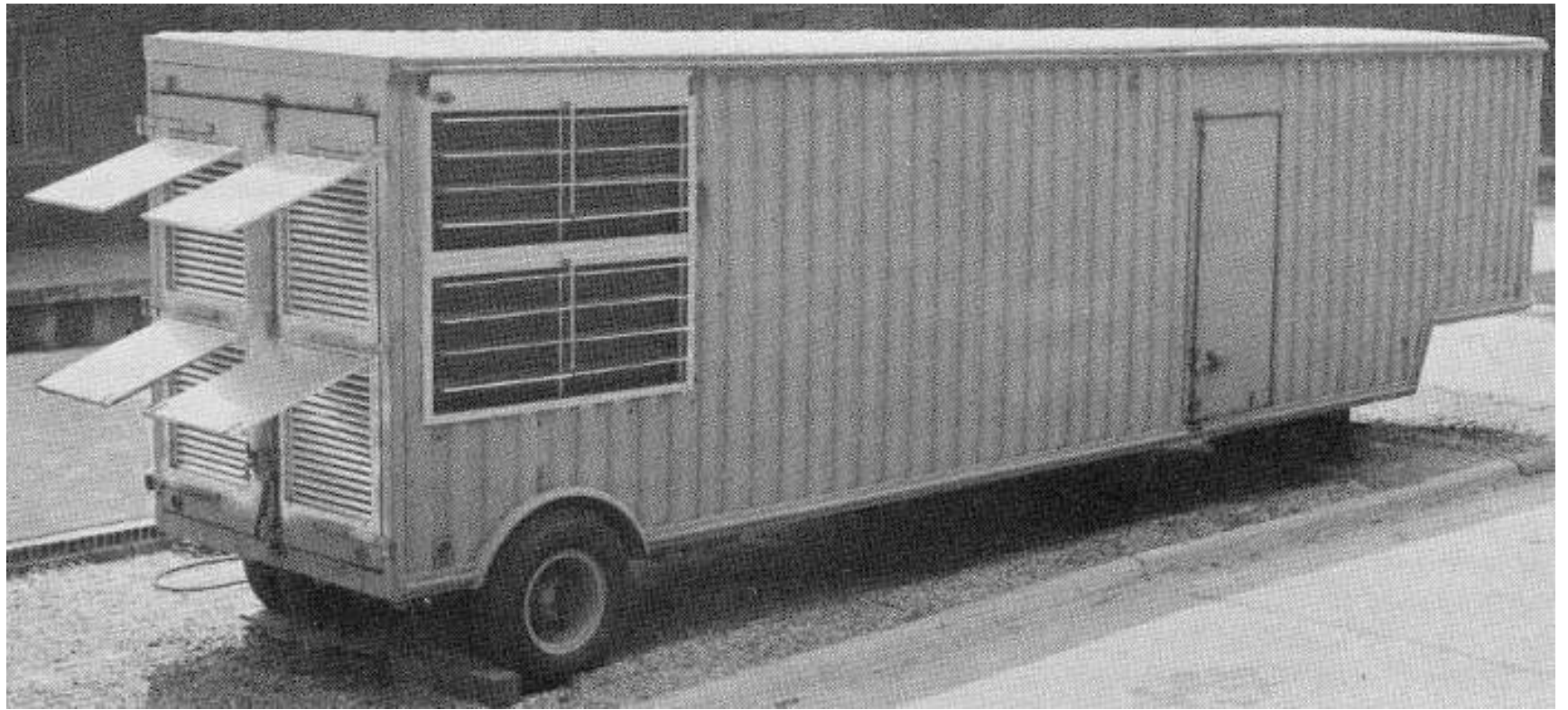
HOPE 2012

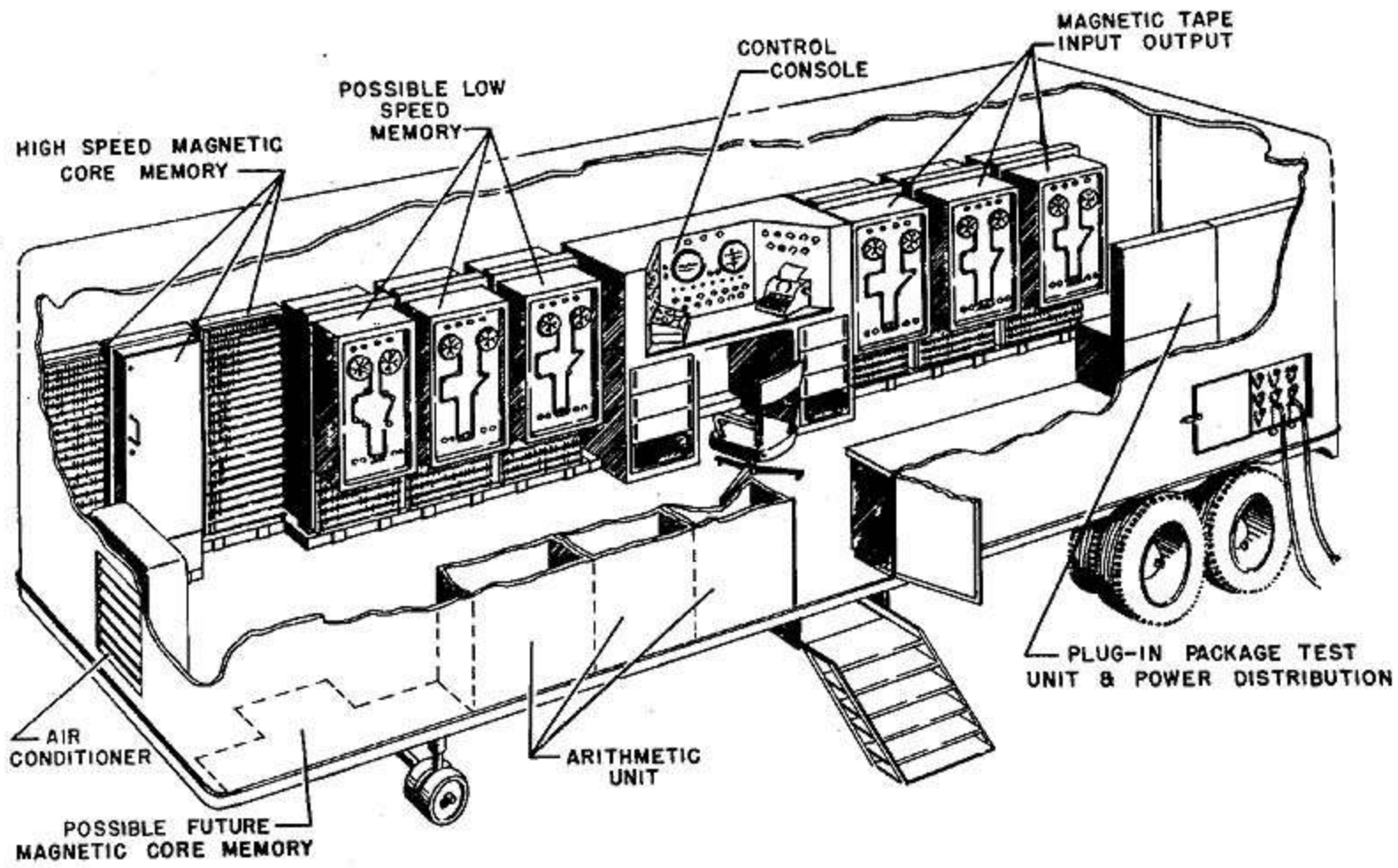
Bill Degnan – computer science
for AT&T, IBM, U.S. Senate, vintagecomputer.net
Evan Koblentz – lowly historian,
journalist, museum curator :)

What's a portable computer?

What's a hack?

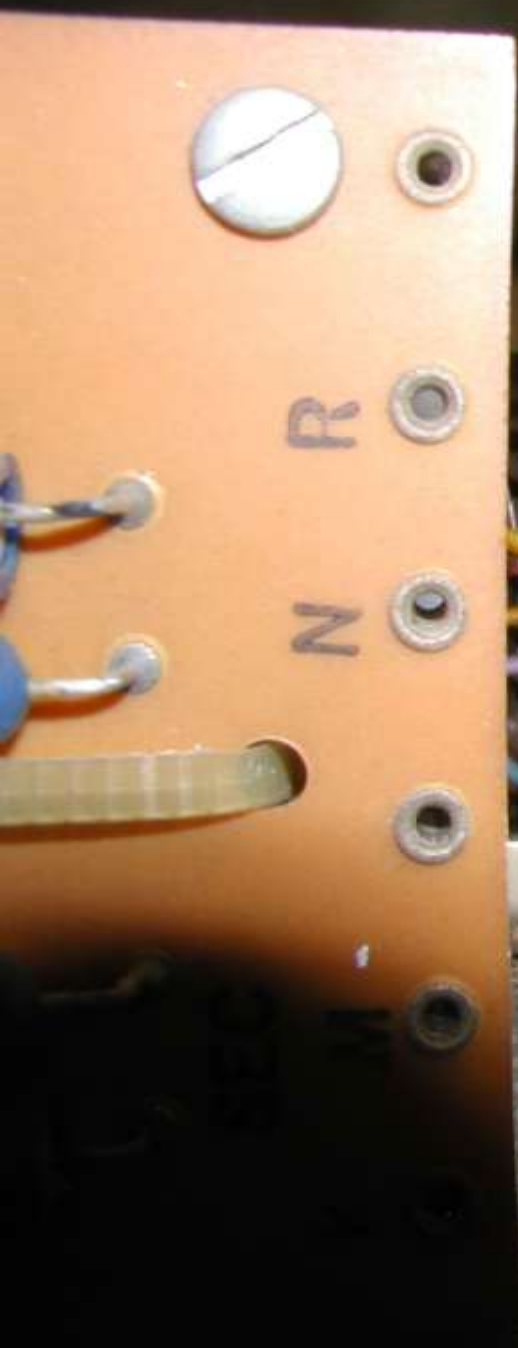






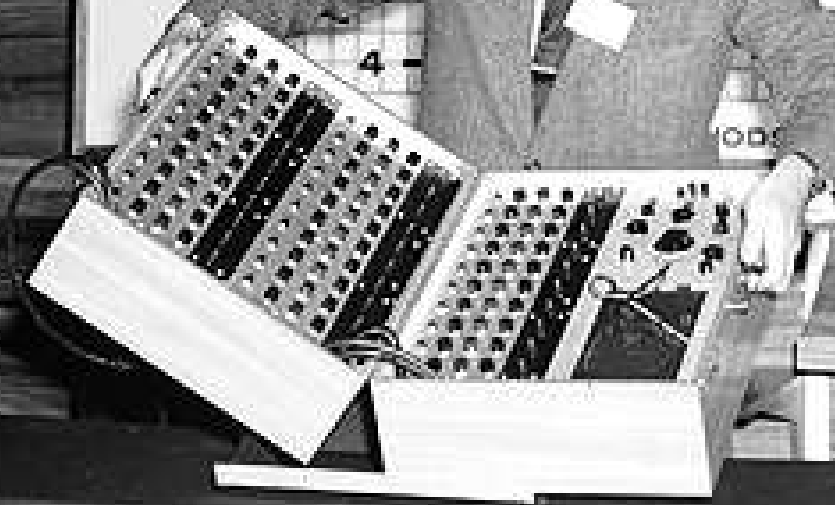
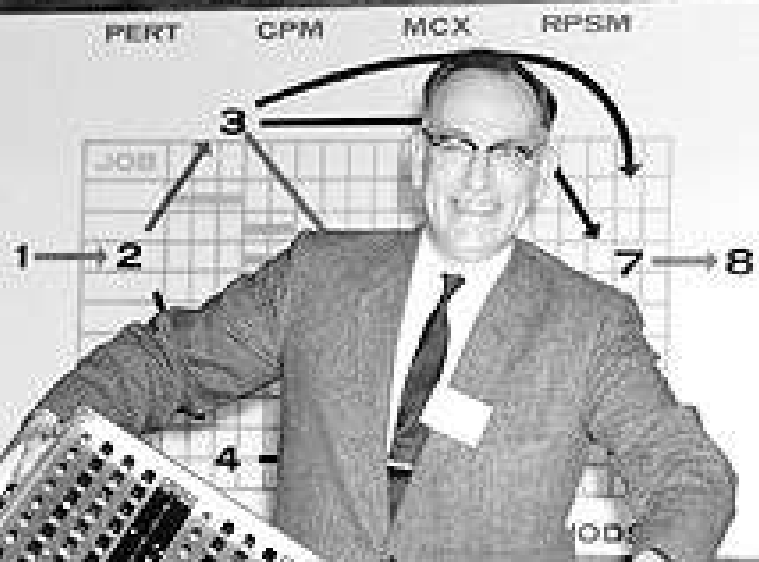








MAUCHLY ASSOCIATES, INC.
PORT WASHINGTON, PENNSYLVANIA





TEXAS INSTRUMENTS
SILENT 700 Data Terminal

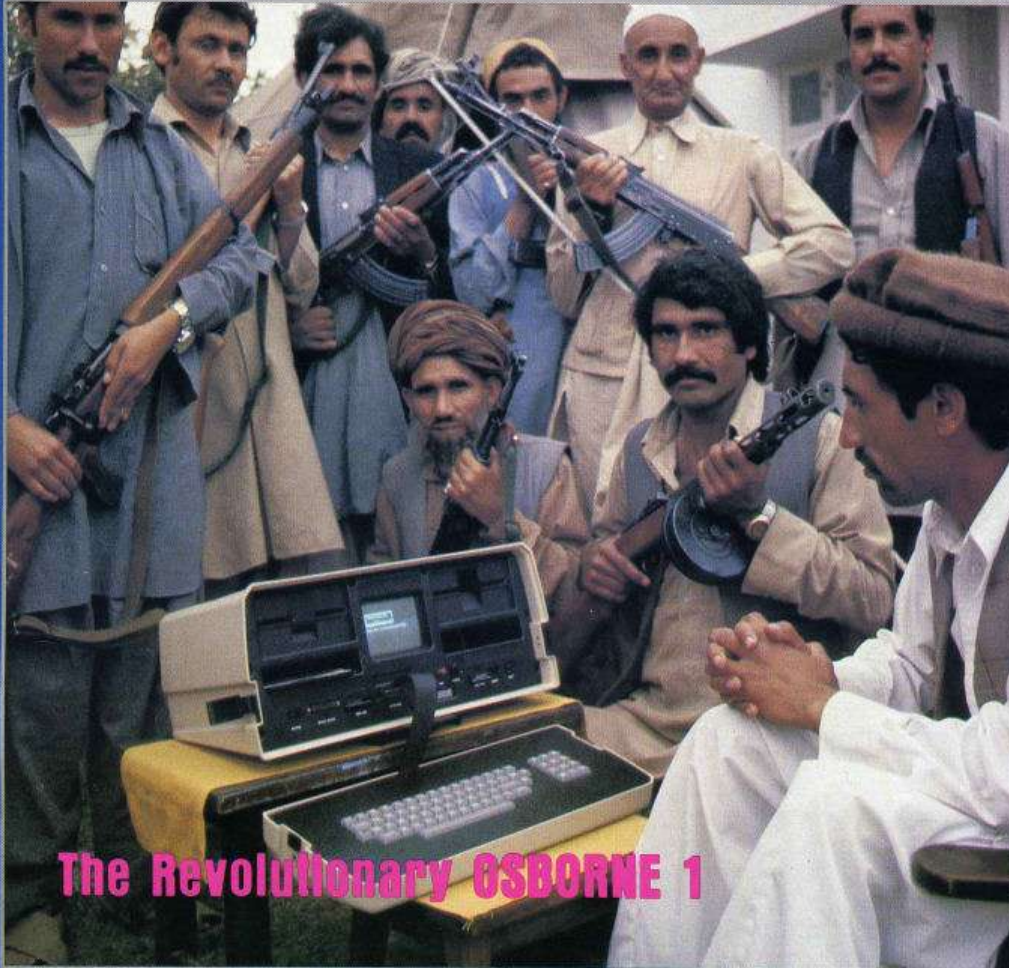
1 2 3 4 5 6 7 8 9 0 - = CMD
Q W E R T Y U I O P ; ' LINE FEED
ESC A S D F G H J K L : ; RTN PAPER ADV
CTRL Z X C V B N M < > ? / SHIFT



the Portable Companion

\$2.95
June/July 1982

Premiere Issue



The Revolutionary OSBORNE 1





CINEMAWARE
P R E S E N T S

the **THREE STOOGES**

MORE

Can **THREE** Stooges
Save **ONE** orphanage
From **FORE** closure?!

LARRY

CURLY

OUR HEROES

They can save the day
by making **ASSETS**
of themselves!



THE EVIL BANKER
He took their **BEST EGG**
and told them to **BLAT IS!**



THE WISDOM AND OUR 3 BEAUTIFUL DAUGHTERS
They're about to be thrown out on their **HEELS!**



"WYDE, AYDE!"
"OH, A WISE GUT!"
"RUFF! RUFF!"

CINEMAWARE Corp. Presents
THE **THREE STOOGES**™ - Executive Producers ROBERT & PHILIP JACOB
Produced & Directed by JOHN GUTTIE - Compositography by INCREDIBLE TECHNOLOGIES
© 1999 Twentieth Century Fox Home Entertainment, Inc. All Rights Reserved.

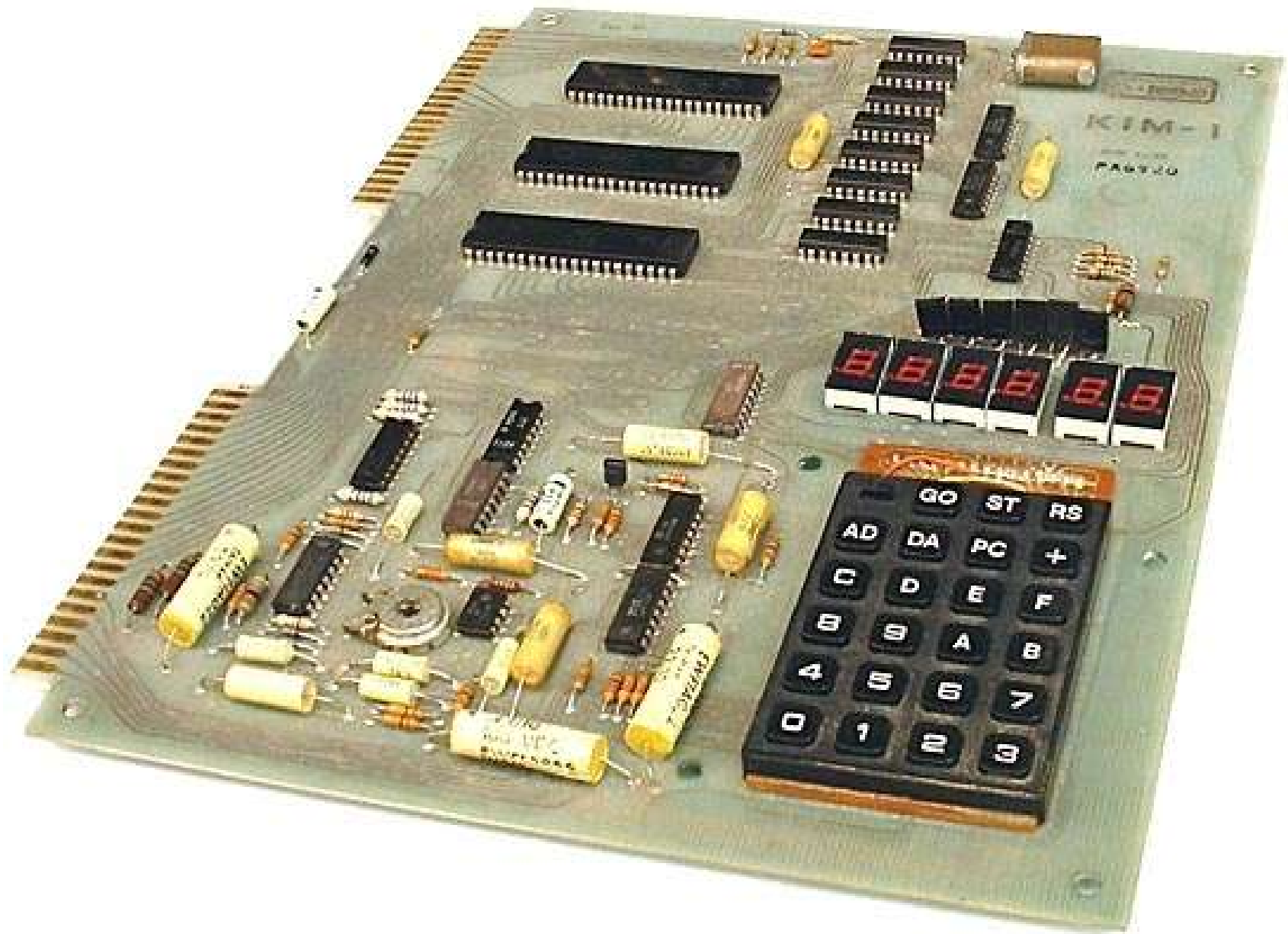
Current date is Tue 1-31-1989
Enter new date:
Current time is 0:00:32.90
Enter new time:

The IBM Personal Computer 502
Version 2.10 (Copyright IBM Corp 1981, 1982, 1983
)

PROPERTY OF IBM
7319551000

IBM
Personal
Computer





Husky

DVW Microelectronics Ltd.
presents
— HUSKY —
press "Enter" to continue

DVW Microelectronics





GRID

Compass Computer
1101

GRID
SYSTEM CARD © 1983

GENERAL COMMANDS

- CODE-1: Repeat commands
- CODE-2: Repeat
- CODE-3: Column selection
- CODE-4: Column insertion
- CODE-5: Subtotal first, calls or text
- CODE-6: Erase lines, calls or text
- CODE-7: Sub without moving
- CODE-8: Insert call
- CODE-9: Move lines, calls or text
- CODE-0: Duplicate
- CODE-Q: Footnotes
- CODE-G: Quit and save
- CODE-T: Row selection
- CODE-L: Transfer (Print, Save, Merge)
- CODE-V: Erase system usage

- CODE-W: Window
- CODE-SPACE: Erase previous word
- CODE-RETURN: Control
- SHIFT-RC: Run lock

GENERAL COMMANDS

- CODE-3: Compress
- CODE-4: End (copy database)
- CODE-5: Run to center
- CODE-6: Report (or specification)
- CODE-7: Substitute
- CODE-8: Window (find command)

GENERAL COMMANDS

- CODE-9: Delete calls
- CODE-0: Headings

- CODE-1: Jump to call
- CODE-2: View previous or word next
- CODE-3: View previous or word next
- CODE-4: View previous or word next
- CODE-5: View previous or word next
- CODE-6: View previous or word next
- CODE-7: View previous or word next
- CODE-8: View previous or word next
- CODE-9: View previous or word next
- CODE-0: View previous or word next
- CODE-Q: View previous or word next
- CODE-T: View previous or word next
- CODE-V: View previous or word next

GENERAL COMMANDS

- CODE-3: Summary
- CODE-4: Headings
- CODE-5: Set call

GENERAL COMMANDS

- CODE-1: Find
- CODE-2: Jump to paragraph
- CODE-3: Subtotal





Radio Shack
TR8-80
MODEL 100
PORTABLE
COMPUTER

F1 F2 F3 F4 F5 F6 F7 F8 BREAK
PASTE LABEL PRINT PAUSE ← → ↑ ↓









NIXDORF

COMPUTER

LK-3000

ENGLISH

POMISI

MET

US

X→M

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X

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stp

def



MEMO NOTE 30

LOCK

LETTER READ WRITE HYPHEN Z
CON

U V W X Y
MDC CLL RM M- M+

P Q R S T
√ 7 8 9 -

K L M N O
% 4 5 6 ÷

F G H I J
+/- 1 2 3 X

A B C D E
C 0 . = +

ON
LIQUID CRYSTAL CALCULATOR LC-836MN

TOSHIBA

DATA RECORD ITEM

0
1234567890.

BF-8000

CASIO SUPER MEMORY-COMPUTER **DATA BANK**

ON OFF

MEMO TEL DATA IN/OUT

SECRET CLR LETTER DEL COMMAND

FINGER/TOUCH AC CAL C EXE

ON

INPUT

	MC	MR	M-	M+
%b	7	8	9	+
√	4	5	6	x
C	1	2	3	-
AC	0	.		+



PK 1000C

Druk op ONSTOP om het apparaat aan te zetten dan wat
 bepaalde functies te onderbreken. Druk op om de tekst
 regel voor regel te zien of om een lege regel te kiezen.

De PK schakelt zichzelf na 90 seconden automatisch uit.

Q = positie naar links	Shift + Q = naar begin regel	TEXT	Uitlazen van alle eerste regels van tekstblokken, opgeslagen in het geheugen.	CLEAR ALL	Indien tweemaal ingedrukt wordt alle opgeslagen tekst gewist.
W = positie naar rechts	Shift + W = naar einde regel	MARGIN	Instellen gewenste marges (10-80).	CLR LINE	Wissen van één regel (van cursor tot einde regel).
E = naar volgende regel	Shift + E = naar einde tekst	INSERT (TXT)	Invoegen van karakters of compleet tekstblok.	CODE	Tweemaal indrukken voor het (de)coderen van tekst.
R = naar vorige regel	Shift + R = naar begin tekst	DELETE (TXT)	Na invoegen opnieuw op INSERT drukken. Uitwissen van karakters of tekstblok.	KEY	Inbrengen van nieuw sleutelwoord: breng nieuwe karakters in en druk opnieuw op KEY.

Zie achterzijde voor het verzenden van tekst.









MARCH:

Mid-Atlantic Retro Computing Hobbyists
(museum, email list, VCF East)

Midatlanticretro.org

**** Please come see our booth! ****

InfoAge Science Center – Wall, N.J.

Q/A

Praise: evan@snarc.net

Criticism: billdeg@degnanco.com

Vintagecomputer.net (Bill's site)