

6/19/23
Suggest to Ray possibility of distributed power
concept for scamp.

Consider:

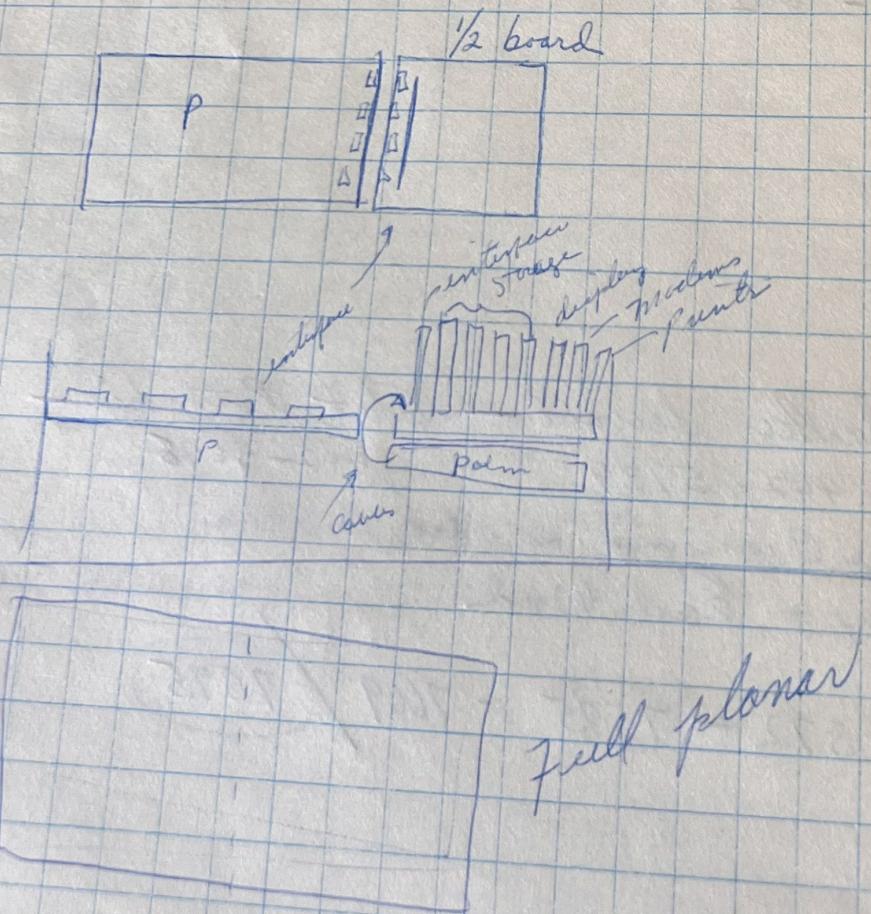
- a) each storage card would have its own
+5 and +8.5 V supply on card -
-5 Volt would be system configuration

— Mark Silverman — } work Lou Ruffino.
— Bill Morrison — }

EMT Bi Sync - not same as normal hand shaking -

6/20 - Call Dennis.

Must get IPL ROS
display character generator



4/20/13

ACD^b for Memi 125 - Chat will send to me.
Acoustic Coupler - Chat to try & get one set of parts.
KBD - — got one.

Modular Compak Key -
SPST momentary - Gold - May I 10mA @ 12V.

\$5 made parts. Avail. 7/20 } no present users.
50¢ production. }
We package - }

Assume -

~~Appraised~~ Compak Keyboard with APL Key set + 8 function keys
\$500 for keys } 60 days from request IPT.
500 for package - }
Additional copies some costs need key button layout
We must do decoding -
2 Key roll can do, with matrix. -
Key has 1MS bounce.

Consider Compak KBD with component circuit board beneath -

Compak matrix →  Unintegrated approach
Circuit board → KBD makes contact on perimeter of pc board.

Modular approach requires pc area.

IPT to Earl Wood D51 / Bldg 061, Raleigh.

\$300⁰⁰

6/21/73

[With Bob King] -

5418

Only Kosienick

5251

cost of arm test

Colleen Kneale Ind. Design -

6591 John Greenfield (Jack) Mech. Design -
47 h. 176
$$\begin{array}{r} 176 \\ \times 4 \\ \hline 704 \end{array}$$

83000 + travel

Not good design fee 10%
4 mold design - $800 \times 4 = 3200$ for initial molds -
model parts ~~at~~ 100 $\times 4 = 400$ in unit qty -
Mech. design $\frac{1}{4} 4000$ design & travel -

1 fiber glass mold

design help - } $\frac{1}{4} 2000$ + Model Maker
800 mold
 $100 \times 2 = 200$

finish work.

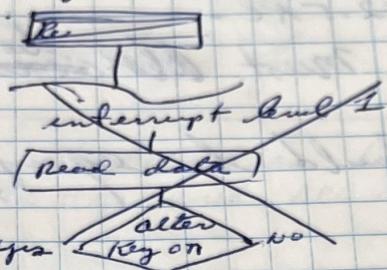
1 Wood model.

Masonite

1 man month fr. Jack
Rochester Vendor - IBM Confidential OK -

KBD :
4/2/93
Ask Bill Trott if we can do get to Register & add
output bus.

Do Keyboard function key branch like this:



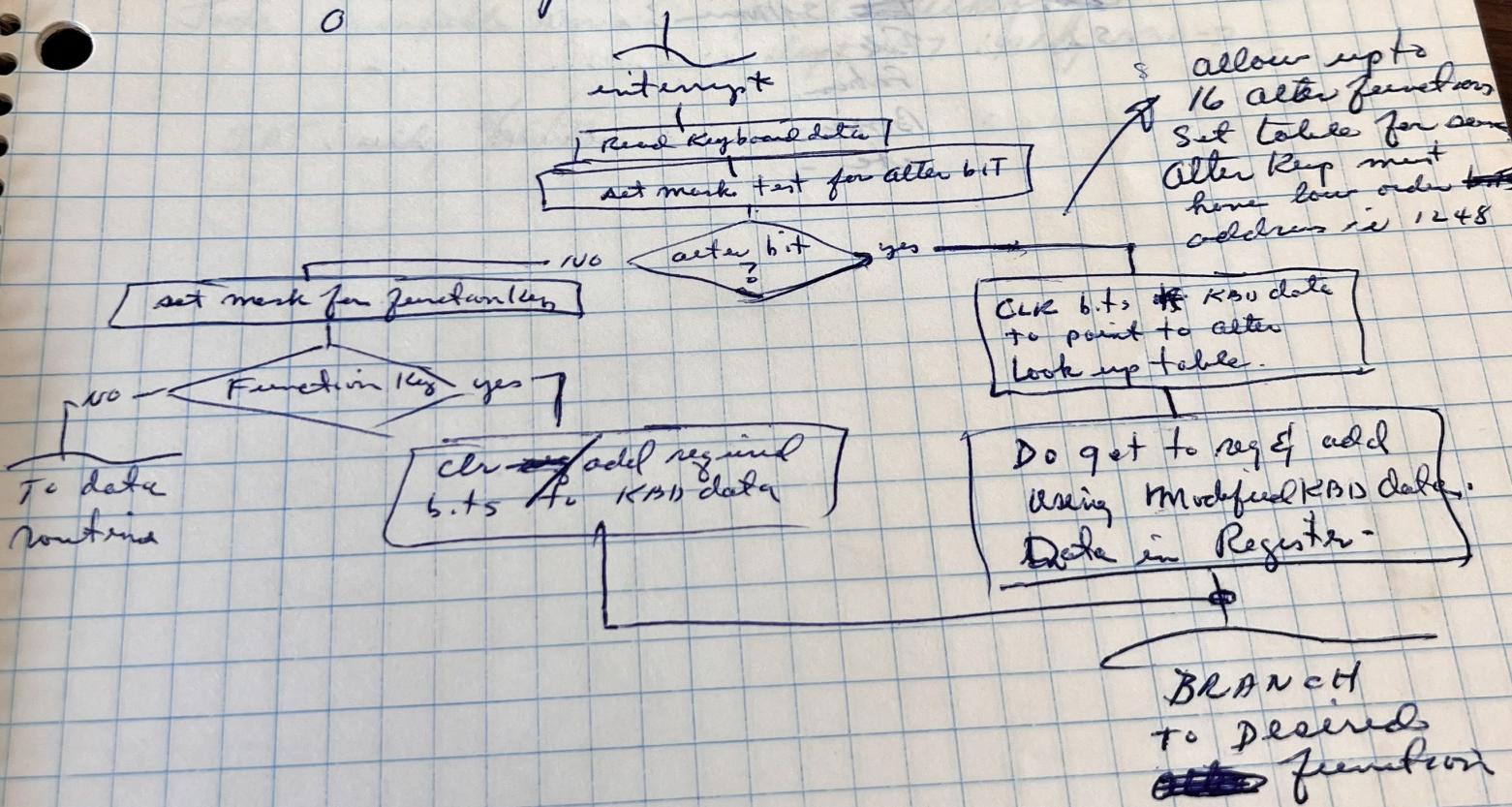
Requires hardware byte assembly.

Byte = 01234567
= DCBA8421

Consider scan code grouping like this:

lower case = one order of b.t5 e.g. low order 6 bits
upper case = second b.t1 if byte added to low order
Function Keys = < 16 = grouped within low order
bits, i.e. ~~bit 4 only~~

This would provide the following branching techniques



Maple Block 4 socket 816696

Denny Jones
2003

3780 Planar board -
assume .010 center.
manually layout $\frac{1}{8}$ center.) Endicott
Roger Cargill.
Coordination for Vikings

Ver-Pots - 500-2K

Ultimate \$36 fulls \$24 half -
not sure if dutchers auto insertion is available -
Testing done by 1130 -

25 - 2 hrs insertion of Viking planar using ~~Regan~~ placement machine.

Numbers prove that OEM is better -

Maintenance = FRU = Field replaceable unit -

Norman Slender for help.

Call Norm on Friday?

6/22 Norm Slindes 6707

Neck M. 1961

K. Slack. 6667

Bob Shopp 5515

6/22 Recd Deerfield logic from G. Hellsworth.

Order Typewriter Keyboard in Compak.

— typewriter type with APL character set and defined function keys

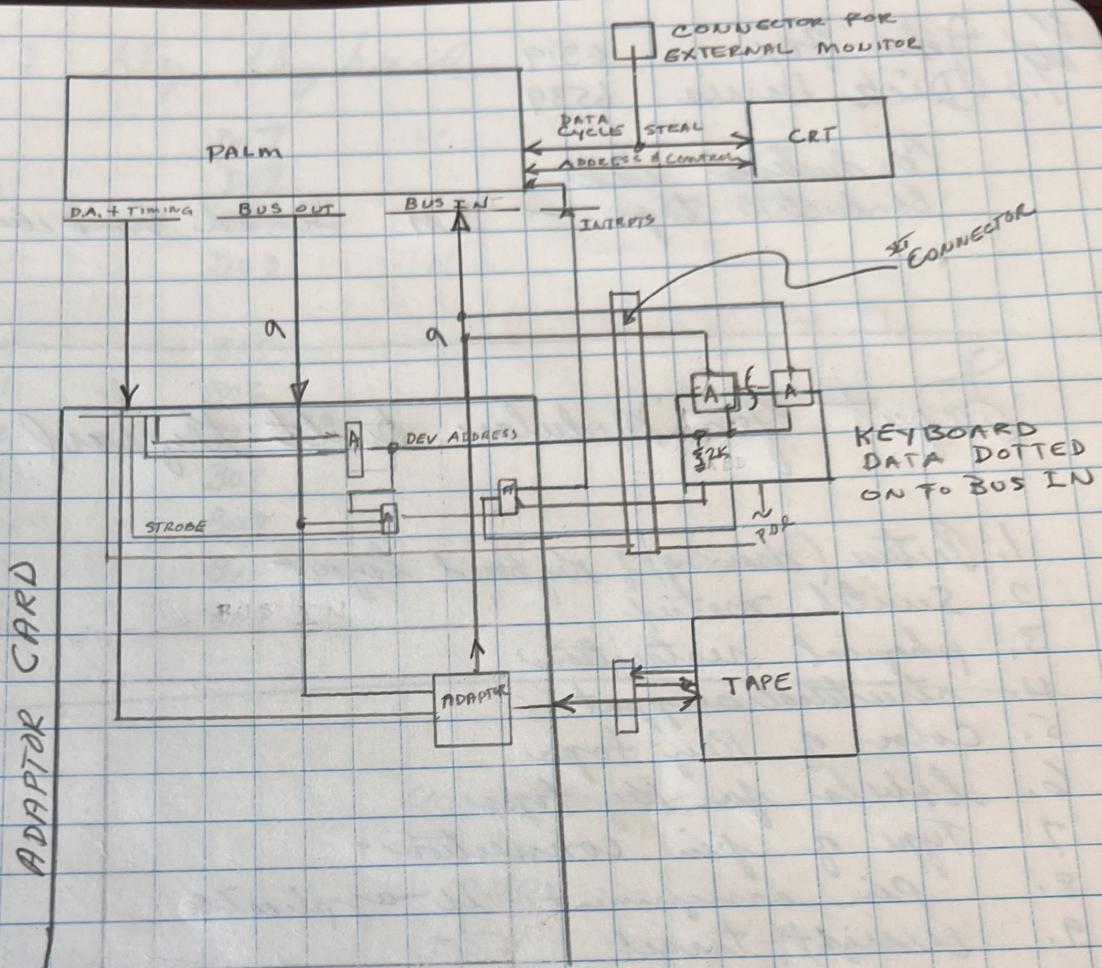
Tom Vinson 8-456-2831

Jack Greenfields mgr.

Frank Wilkey Jr.
Dept 437 Bldg 030-2

IPT ready 6/25/73

6/25/73
JLg



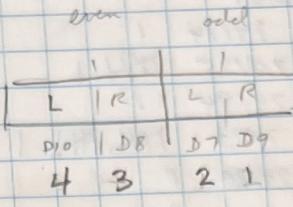
Display Card

D7 = ODD Left

D8 = EV Right

D9 odd Right

D10 even left.



+ DISP'BIT A	A01	1	A6	VCC	16	A04		
+ DISP BIT 8	B01	2	A5	A7	15	B04	+ DISP BIT B	
+ DISP BIT 4	C01	3	A4	A8	14	C04	+ GATE CURSOR	
+ DISP BIT 2	D01	4	A3	E1	13	D04	+ DISP DATA BIT 1	
ROW CTR 1	E01	5	A0	01	12	E04	+ ROS BIT 3	
ROW CTR 2	F01	6	A1	02	11	F04	+ ROS BIT 2	
ROW CTR 4	G01	7	A2	03	10	G04	+ ROS BIT 1	
	H01	8	GND	04	9	H04	+ ROS BIT φ	

6/27/93

RTL modules for display card

- ✓ 2135 1
- ✓ 2117 THH 111
- ✓ 2102 111
- ✓ 2129 THH 1
- ✓ 2137 111
- ✓ 2139 THL 1
- ✓ 2100 111
- ✓ 2109 1
- ✓ 2120 1111
- ✓ 2111 11
- ✓ 2104 1
- ✓ 2114 11
- ✓ 2105 11
- ✓ 2112 1
- ✓ 2116 1
- ✓ 2173 1
- ✓ 2101 11
- ✓ 2113 1

4 ROS modules

R PAC 2392700 1111

R PAC = 33 Ω, 75 Ω

diode

Week of June 4

① Bill Tuth -

- a) IPL Pos modules ✓
 - b) memory interface module } ^{not} 2
 - c) funnel modules } 2
- 32 char/line change

Joel Leverenger - switches, etc.

three
afternoons

Rudy Piromitz 4763

Mike Renhart 4764

Gene Keehar

Printer module
NBD module

Ned: 8 or 16 bit shifter (both directions plus input control.)
rotate.

Ralph Tidball - chet Rotaski.

Frank Williams - Bring switches attachment
and software.

441-6424

② George Hellsworth -

6/1 - 9 AM

③ Miller - Re tape attachment - Used comp. Only + mode
8 vi attachment
Drawings of Scamp -

④ Better printer documentation.

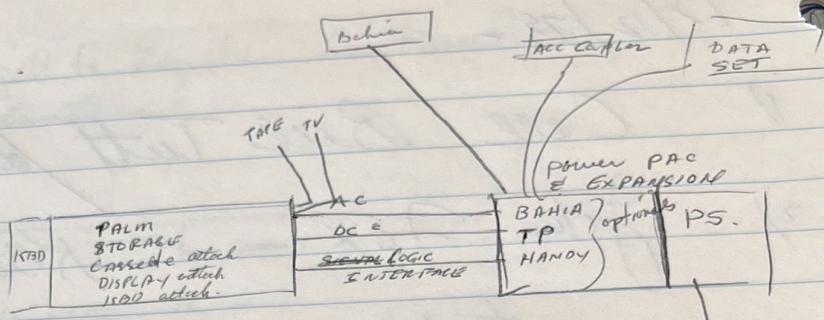
Home SW.

⑤ Don Ref - Mech. design help & Mld.

12/17/73
J.D. George

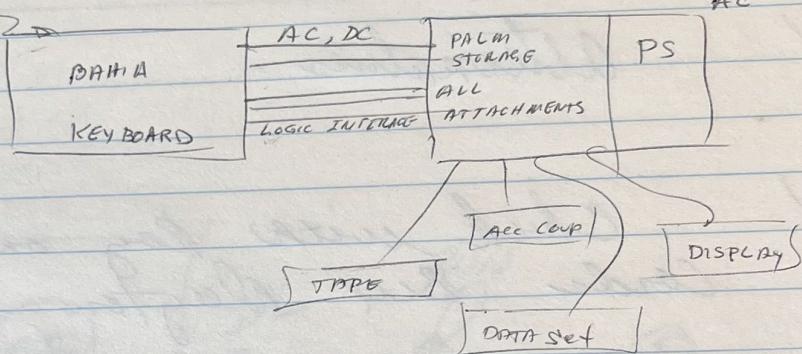
Consider:

MODEL 1



MODEL 2.

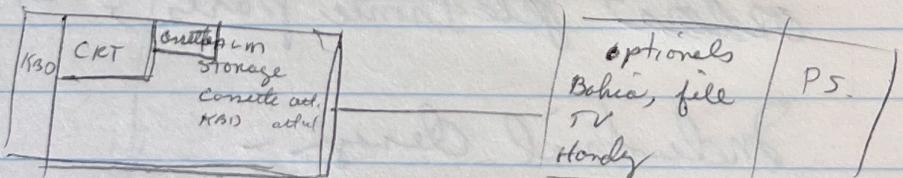
Selective covers:



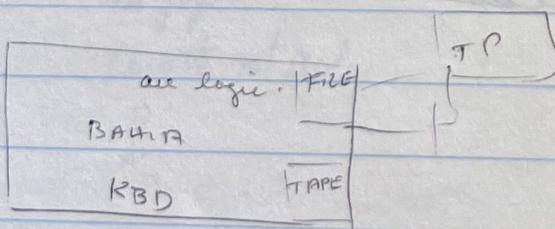
MIGRATE TO

Model 3

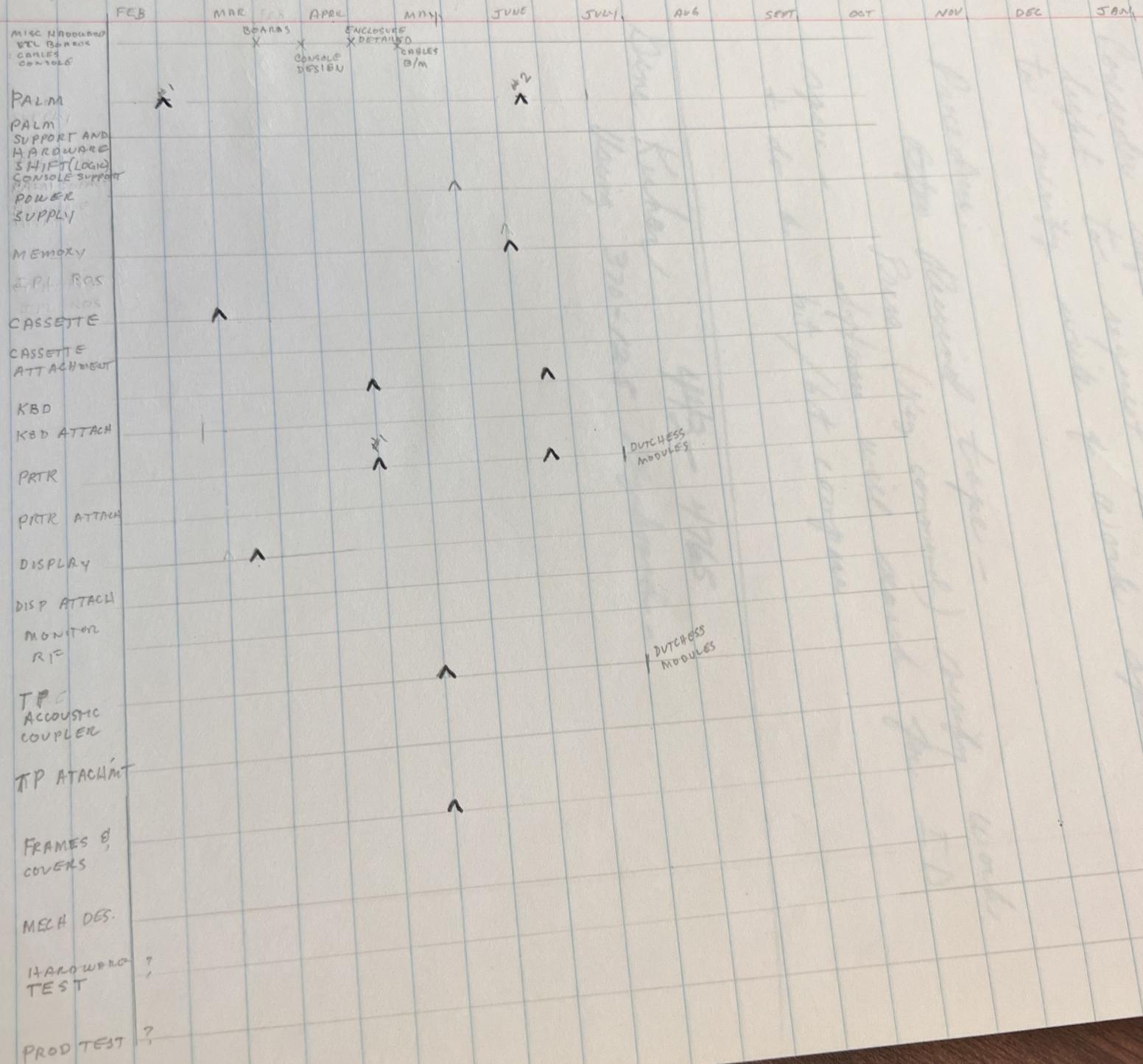
MODEL 3,



Model 4



1973



Biel Radky - 8/1/73
- Hardware / Software -

Call from Hugh McKinney

asked for info from Raytheon on low level amp
RM 8341. phone 968-9211

Send data sheet to H.E. McKinney
PO Box 2150
Atlanta Ga 30301

Canceled PM.

Will send data to HEK.
would not quote price over phone.

Distributor in Atlanta = Cramer 404-451-5421

8/3/73 -

Don Brooks -

Bakus will support
msg mrs

Slats and pay trip -
Charge it from Cut -
Get together last half -

Verge & REA on vacation → 8/17 -

display -

Graphics ?) need input by 9/15/73 -
buffer ?)

1. Speed up.
2. repackage
3. 2 byte buffer -

} Cost estimate to Dene based
on doing these 3 things -
Must input if graphics is a must.

estimate to Slats or above -

if we need large store, input to REA -

Mentioned use of reject cards - not too good, REA

Mid Sept. - for display.

Insist writing basic in Palm longer
Need seize for direct program

Time life programs

Sherwin's -

Consult what program

Geo-Str should be -

Ginsberg

Mktg

8/3/73.

Phone discussion with Bill Teett.

Re: FSU/Snoopy mix -

Bill will add wiring capability to new palm
to slow down to FSU speeds -

FSU = $1 \times 9 = 1$ dutchess module.

FSU can drive but 1 load.

We'll need interface modules -

They have a card designed for EMS -

Have ability to run new palm
at old cycle rate. Allows faster
debug.

8/3/73

8/6

1. See Wilson Test Equipment - effort required to test Scamp
2. BASIC programming people from Team-Life will evaluate PSLM / BASIC needs - They will be in Boca 8/5/73 -

Call Erwin Vago - 8-243-2881 -
He wants info on any hardware tricks we are using -
mention present 2 instruction HDWAN shift -
shift right x1 instruction.

3. Machine environment restrictions

Temperature -

Tape handling -

What happens to exposed to extreme heat during transportation?

What is specimen?

Data Products Inc.
300 So Lewis Rd
Camarillo, Calif 93010
805-482-1911

Jim Lendquist will send info -

1 basic drive with servo -

2 " " " " & head

3 " " " " " " & R/W card

4 " " " " " " " " " " , encode/decode

5 " " " " " " " " " " " "

plus interlock card -

#1 = \approx 198 for qty's 1K

#5 = \approx 545 in qty - to be negotiated

Model in 3 wks for evaluation if ordered now - week - Oct delivery if order in place

8/1/73

Mark Silverman 8-372-7249
— Bill Radley — I/O

Bill Morrison,
Frank Castanya. } 4176

power supply - extra requirements.
board full
console

package 19 rocks.

I/O configuration. Igar, CRT, KBD, TP, PRINTER
Test
Qty

1053?

graphics.

attach → modem → Acc couple

SW

FIA

8/8/73

Blank Key for Coleco -

Row 1 1853563

2 1853564

3 1853565

4 1853566

Ron Johnson 6287

8/8/73

Jim Lendquist of Data
Products, 3M Company will be
here Tuesday, August 14. I
have reserved conference room 507
from 10 am to 12 noon -

Mr. Lendquist will have a model
of their DPC-202 cassette drive and
1 model of their 3m cassette drive
for our appraisal.

JLg

Roy
Chris
Greg
Ed
George
Dennis