



A

(5)



SCAMP I | RESOURCES

MM DIRECT

MM SUPPORT

HDW & OTHER

Hi. Res →
Co. Dism.

PROGRAMMING

MAINTENANCE

BASIC

MARKETING

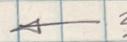
	'73	'74	
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	50K		Cassette Adapter
88	264K		
99	550K	380K	
66	198K		

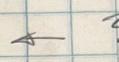
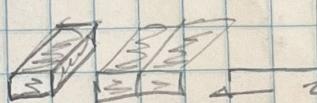
"

John Road?
Raleigh guys

FCS



'74 * 35K \$70K
\$68K



48 144K

656K + 36K

36

TOTAL ≈ \$700K

P.M.D. 1/8/73

Programmed

K7777



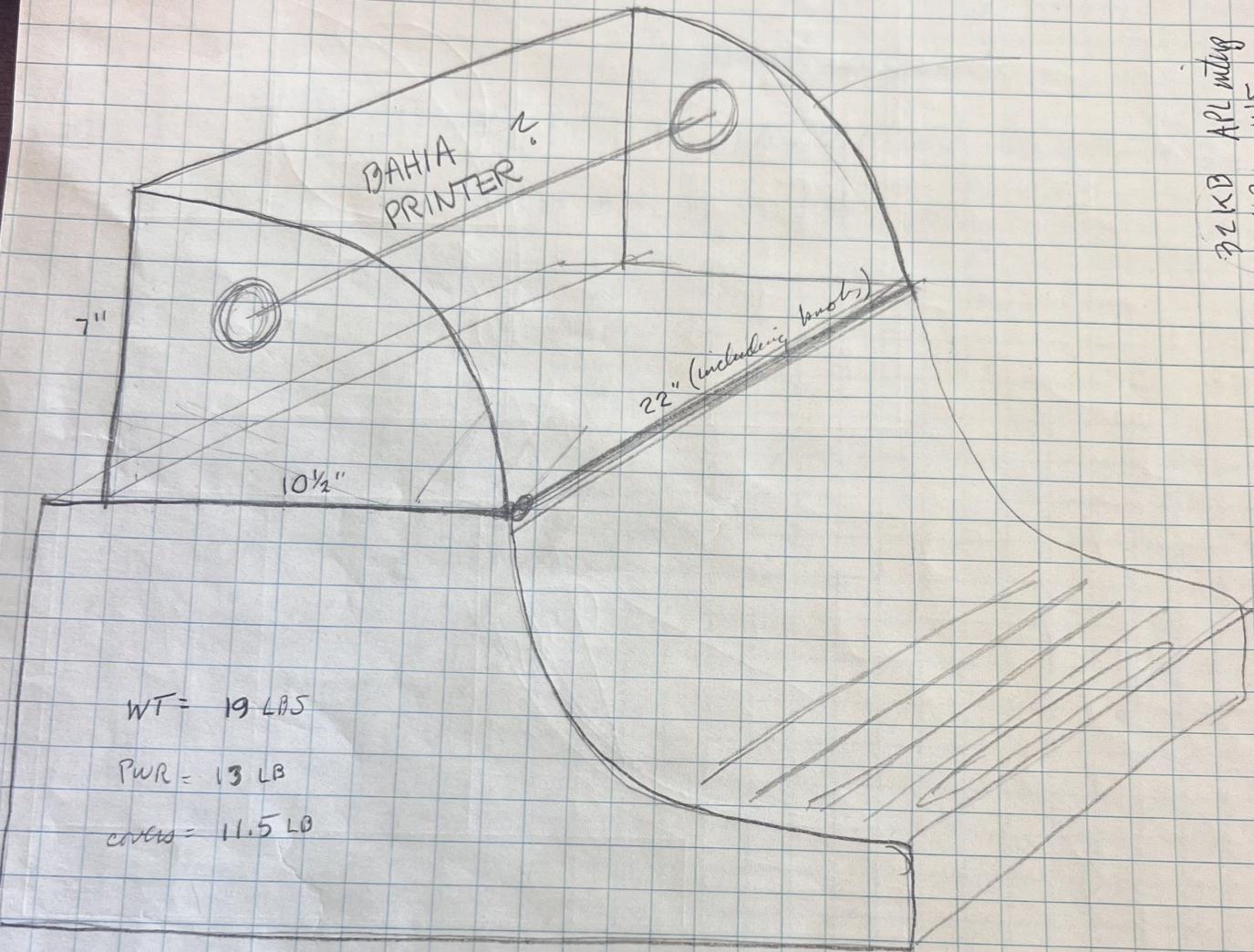
\$ 910K



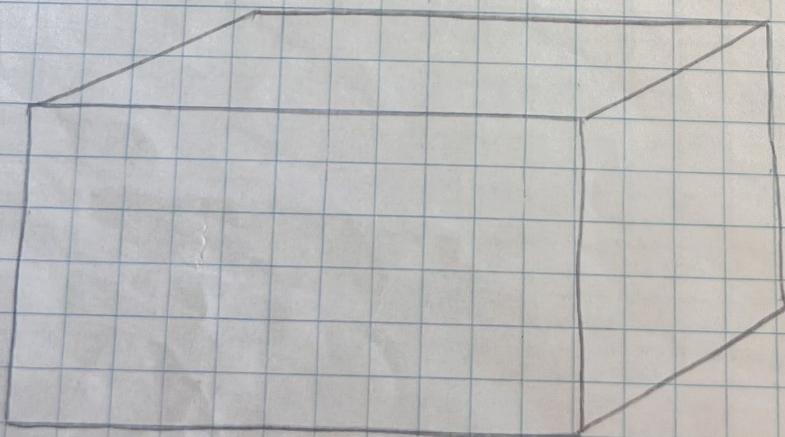
B.J. Fiedl 1/8/73

witness: H. G. Kellay 1/8/73

$$15 + 6 = 21 "$$



32 KB	APL incl
20 KB	W/S
3 KB	130 emul.
<u>15/14</u>	



P. J. Trudl 1/8/73
witness: H. H. McAliley 1/8/73

MAIN OBJECTIVES

(a personal computer)
✓
2

- MOVE INTO THE (APL CALCULATOR) BUSINESS
AS SOON AS POSSIBLE

GJ Frizzell 1/8/73
witness: G.P. Gallopy 1/8/73

STRATEGIES

- STAGED DEVELOPMENT OF 3 PRODUCTS

SCAMP 1	SCAMP 2	SCAMP 3	FCS
			END 12/73
			12/74
			12/75

- USE EXISTING TECHNOLOGIES FOR EARLY RELEASE OF SCAMP 1

- BLEND IN OTHER TECHNOLOGIES AS THEY BECOME AVAILABLE FOR SCAMPS 2 and 3

S. Friedl 1/8/73
author: H. H. Keldy 1/8/73

SCAMP I TACTICS

- MADE A LARGE SOFTWARE PROJECT FOR A MUCH EASIER FIRMWARE PROJECT
- BUILD AN 1130 SUBSET EMULATOR
 - USE 1130 TYPE III APL PROGRAM
 - USE AVAILABLE HARDWARE TO MINIMIZE COST AND DEVELOPMENT TIME
 - ~~UC-5~~ PROCESSOR
 - PLUS AVAILABLE I/O ADAPTERS FOR
 - IGAR
 - CALICO
 - BAHIA
 - (T/P) ?
 - = PROVIDE
 - APL SUBSET (possible full set)
 - STANDALONE OPERATION
 - PORTABLE / DESK TOP UNIT

P.J. Friedl 1/8/73

author: J. W. Haldy 1/8/73

SCAMP 1 COSTS

(4)

65 K	.305	.128	.293
2.1	4	6	9
455	9	6	9
130	6	6	9
1755	2.745	1.205	2.418
	13	00	65
		1975	
		COST	

HARDWARE

PROCESSOR

PALM

122 340.

MAIN STORE

65KB RIESLING (41)

1755. → 1312.

I/O ADAPTERS (incl TP and TV)

218.

IGAR

227.

CALICO

68.

BAHIA

237.

CASSETTE ADAPTER

36.

POWER

200.

ENCLOSURE / CABLES

150.

ASSEMBLY / TEST

62.

TOTAL HARDWARE \$ 3075.

\$ 2846.

30% CONTINGENCY

924.

790.

\$ 3999.

\$ 3422.

Avg Cost 74/75 ≈ \$ 3700

—

Snoopy
me

269.1
78.6

128.9
1.1
98.67

R.J. Fiedl 1/8/73

witness: H.H. Kelley 1/8/73

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SCAMP I PRICING

<u>MARKET SIZE</u>	<u>FOURTH ELEMENT</u>	<u>HARDWARE</u>	<u>APPROX. COST</u>
10,000 UNITS	\$ 91		\$ 3791.
5000	\$ 182	+ 3700 =	\$ 3882.
1000	\$ 910		\$ 4610.

$$3790 \times \begin{cases} 2.5 & \$9475 \\ 5 & \$18950 \end{cases}$$

PURCHASE

$$(50\% ROS) \quad 2897 \times \begin{cases} 2.5 & \$7240 \\ 5 & \$14480 \end{cases}$$

$$\begin{array}{r}
 3363 \\
 2.5 \\
 \hline
 16815 \\
 6726 \\
 \hline
 84075
 \end{array}
 \begin{array}{r}
 3790 \\
 2.5 \\
 \hline
 18950 \\
 7580 \\
 \hline
 94750
 \end{array}
 \begin{array}{r}
 7528 \\
 764 \\
 + 127 \\
 \hline
 891
 \end{array}
 \begin{array}{r}
 3788 \\
 - 891 \\
 \hline
 2897
 \end{array}$$

$$\begin{array}{r}
 .41 \\
 3700 \overline{) 1525.00} \\
 14800 \\
 \hline
 4500 \\
 6.20
 \end{array}
 \begin{array}{r}
 14485 \\
 579.9 \\
 \hline
 7242.5
 \end{array}$$

S.J. Friedl 1/8/73

witness: H. W. Kelley 1/8/73

(7)

-AMP 1 RISKS/ASSUMPTIONS

- Availability of UC .5 OK
- Collapsed Product Test Plan ?
- Life of IGAR disk is high enough OK
- Must Start development immediately

Roy Harper

5241



HP 35 → APL

Wolfe

B. J. Freed 1/8/73

Author: H. H. Kelsky 1/8/73

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SCAMP 2 TACTICS (PART I)

- EXTEND SCAMP 1 TO FULL APL CAPABILITY
 - SWAP IGAR FOR RUBY
(NOTE THAT SCAMP 2 ENCLOSURE WAS DESIGNED FOR THIS)
 - DEVELOP APL ENGINE ARCHITECTURE
(PALO ALTO 'M' MACHINE, ABRAHMS D/E DESIGN, or similar)
 - EMULATE APL ENGINE IN SCAMP 2
- EXTEND SCAMP 1 I/O CAPABILITY
 - T/P LINK - (ENABLES INTELLIGENT TERMINAL OPERATION) (SDLC #)
↳ TV DISPLAY
 - SECOND CASSETTE ADAPTER

Bill Chapman UC-5
Ray Reinders

Calico 200 Bytes
S/S port 8-900 Bytes (2741)
P/Sync 18-3200 Bytes (2770)
Balua

O.J. Freed 1/8/71

Nature: H. Shatovsky 1/8/73

SCAMP 2 COSTS

(10)

(1)

HARDWARE

SCAMP 1

MINUS

MINUS IGAR

COST

2632

- 435

- 227

2405

PLUS RUBY

+ 495

2900

PLUS TV ADAPTER

50

PLUS SECOND CASSETTE ADAPTER

36

\$2986+ 30% CONTINGENCY 896 8958

TOTAL

\$3882

860

2559

NOTE: POSSIBILITY EXISTS TO RUN WITH
ONLY 1/2 OF SCAMP 1 MEMORY.
THIS WOULD REDUCE ABOVE BY
~\$860. to ~\$2559.

R.J. Frisch 1/8/73

Author: H.H. Hallsey 1/8/73