

Concerning Monday Meeting with Controls

May 14, '59

Engineering

Technology

- present
- machine improvement
- eventual replacement

Product Planning

- logical organization (comm-sci combination)
- ability of computers - multiplying VFL
- generality (life) - contrast with 701, 702
- checking
- modularity - attachments (Harvest) new tapes, etc.

Scint

Costs

reduced by machine imp

- 1.
  - 2.
  - 3.
- } cost & time scale

Market (sci, commercial, AEC, aircraft, military, etc)

price gap between 7090-7030  
need for "foot in door"

{ customer's desire for longer life  
" " " common machines

to fill gap

1. \$100K ± sigma
2. Reduced main frame
3. New machine prot.

\$98K now

price lowered because performance

Machine improvement to reduce gap.

7090

1. Mem Speed 2.4 → 2.0
2. extended fl. point
3. cutting no. of cycles in F.P. ops  
+ some 2 cycles ops → 1 cycle
4. faster circuits
5. Disk File
6. 6 index regs?

STRETCH

1. Minimum STD System
  - 1 Mem
  - 1 console
  - 1 Rdr
  - 1 Printer
  - 1 Printer
  - 1 Disk
  - 4 tapes & 1 control
2. selective use of new circuits
3. Lower S.M.S costs - simple circuits
4. Serial Disk file
5. Serial ed reader, etc.

charts:

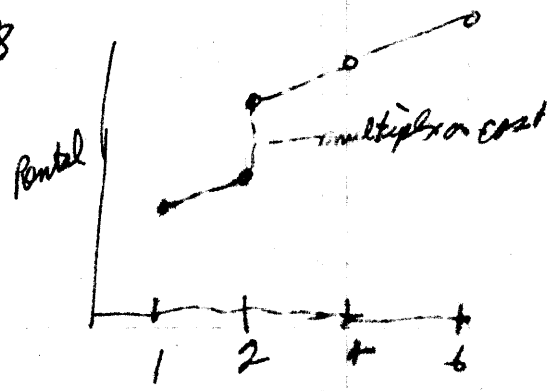
1. Graph Performance vs rental
2. Methods to fill gap 1, 2, 3
- ✓ 3. Standard <sup>Minimum</sup> Stretch systems.
4. list of broad Mkt and long life items,
5. list of advanced concepts
6. To close gap ~~raise 20%~~ ~~same STRETCH~~ ~~Remove out~~
7. Performance vs no. of mems. (Price vs no. of mems)

Idea: ~~can~~ Main frame can be "coupled" for single memory  
 - pay lower cost for main frame  
 "memory adapter unit" or "memory multiplier"

ask for separate box price on "memory multiplier"

must be done now

1 Mem	20		total 98	0	memory multiplier = 165
2 Mem	40		118	0	
4 Mem	80		188		
6 Mem	120	1	228		



discussion of SPACE (E. Office)

Mar 14, 59

SPACE	MPY	7500	6000	5000
1401 2 cuber	Rdr	\$2350	\$2500	\$2800
	Punch			
Tape edit 4 cuber	Printer			
	1.4 K Mem			
	32 Edit	25	100	
	etc	235		
Quizzes:	TAU	200-1000		
	Binary	50-100		
	7070 attach.	50-100		

Chain Printer: - separate tape unit

8500 MPY now  
200-500 for big machines.

Tape Edit system

1401	cost	13615
attachment to Computer (tape control fn)		~ 1200
Chinese binary	=	?
		> 15K

SILVERHILL printer control	
Pi Ctrl	8000
Ph Ctrl	6100
Rdr Ctrl	6000
	<hr/>
	> 90K