

11/10/73 George Rebholz → Mkg - Planning.

Paul Fuss

Operators are subset of APL
do not have Take ↑ }
drop ↓ }

Break up

" down



no trig functions ~~or circle 2~~ = Sign
could be subroutines.
written in APL -

deal = random number like operator -
factorial ?

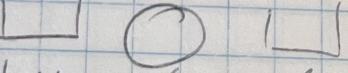
Present Pcam speed still very useful -

With George Rebholz and ~~Vernon~~ Roberson -

Purpose: to bring Rebholz aboard as quickly as possible to allow him to make personal decision to accept market planning responsibility for SCAMP -

Spend 4 hours Sat afternoon - Provided machine build history from Root Task force of 1972 on APL (Thinks machine) to present and future contradictions for this program -

Some of his proposals:

a) This type of approach
to read/write Texan
size disks → 

- b) small pack of Texan disks ala Merlin Ricklefs IGAR based proposal.
- c) Disk file based on PEARL Technology -
(cont.)

Cont'd from Previous Page

10/10/73 -

Described our present disk approach. His reaction is that it's BS - We ~~were~~ were able to show him the ^{hardware} ~~book~~ 51K-Keefer Air and Bill Stule have been ^{implementing} ~~doing~~ but not able to run equipment. Not sure of his level of acceptance or ability to understand the potential of ~~the~~ the above described work.

We showed an interest in absorbing as much info as possible -

My reaction is that he is trying to place SEAMP in a Unit Record (Card Whalloping) environment into which it does not belong ~~at this time~~. There ~~certainly~~ is although it can certainly migrate in that direction.

notes

11/19/73.

From Ray H - Via Call from Bimal Mante
251-5159

Two WTC people to be here in January
to see Scamp - Interested in word search
application - He mentioned job now done in
Surveyor's office using OPS MCST & MT ST equipment.

Suggest we have application using faster tape unit
for demo purposes -

Called Paul Friedl - He suggests possible use
of student programmers to do job -

Give him contact at Stanford - Dennis' instructor
in word processing - - Masten -

$$\begin{array}{r} 05508 \\ \underline{-2} \\ 021246 \\ \underline{-8} \\ 021485 \end{array}$$

11/26

X3266 - Kitty

Could be the same as original -

Overlay were fixed size -

~~extra storage for more easier tracking~~
~~could be = < 1000₁₀~~

extra code -

extra precision.
present modifications.
desired features

}

~~- could~~

Would take extra store

Shadow memory - $\frac{1}{2}$ M space -

M = was included in original 16K
F = variable = ?

enhancement = increase M space - present 1K₁₀ -

Shadow memory is part of work space -

M Space

contains

name table

descriptor

variables

data

stack

used in execution

descripta for what you are executing -

internal rep of functions plus descriptions

Work space = M & F -

11/26/73

do 1130 in R05 -

original { 16K contains M Spaces - Variables, etc
F space required = $\frac{16}{10,240}$ bytes -
usually ~~16~~ 27K original -

what we have - requires more :

Fast Tape -

Copy would be done differently for
high performance tapes

Might be more efficient
to do program differently

40K R/W -

F space, APL interpreter in R05
emulate in RAM

11/27/73.

Sawy Segar.

Cassettes -

looking at 3M.

Name not looked at Nucleo
Was involved with Hickory program -

File : look for Sconpr

Emil 157

a) APL

b)

10-11 people - to do file development -

2 EE for 2 mao.

1 ME " "

11/27/73-

Bob Kay X2343

possible meetings

February Build



left off cover could house Acoustic Coupler.

possible to place 2nd interdyncne
above 1st unit -

also may be able to house Morelco &
will not go foam-, weight-
ID (Wood).

House manuals, etc

Conference call - with Paul, etc

Who ever has problem be prepared to ask question.

Hardware?

Software?

Make sure they can't be answered by own group -

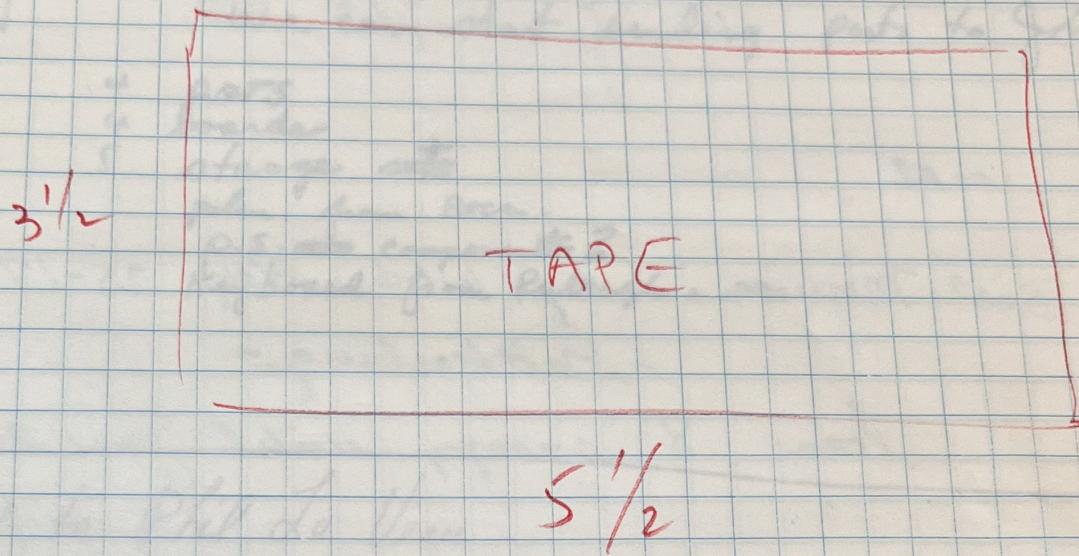
Tell well about Disk solving whole thing for
Basic.

~~Call to 10000~~

11/28/73.

with Emil Hopner and Bill Steele.

Need mechanical Engr.
analog -
logic



With Ray, Greg, Bill - (file)

Single ~~Heads~~ Cost? - Need at least 3 passes
guess \$8-12 through manufacturing -

Cost: Split cost (3500- for 200 cores.)

Time: 45 days / pass

Manuf: Supplied by manufacturing - we do own

Fixed Risk

3 models with cartridge

~~multiple heads?~~ When? Ned designer.

Get mechanical Engr / designer from Rochester.

Access - need ability to step 1/8 for tunnel erase

Phil

557

Paulo Freddo

John Coleman Apt 274, Bldg 040-3, Rock.

or
John Strunkel -

We can start sending parts to John.

4 CRTS

4 boards

5 stage sets

palm from Boca.

P.S. — components?

Keyboard from Raleigh.

"12/13 Call to Phil La Vean -

I suggested we do first file in Los Gatos.
Continuation to be done in Pato shop. and
in dedicated file development group -

Must do business differently to reduce cost -

11/29/73

Call from Burgeo's Atutis 8-252-1620
Purchasing, Endicott.

Need Beniel Makante as introduction.

Wants machine to do telephone directory plus
purchasing problem.
^{Walt?}

APL programs for purchasing —

100 people 3 depts. → adm. concepts
telephone switching → Fritz W.
clear sys come a week
need ≈ 50 chars/person

prefer —

4013 machine —

Color display ?

Communication

telephone answering

graphics

hard copy? nice to have

tape or file —

Trauman Hunter wants to go with 4013 -

Al Yerger - Uses back stroke to draw lines.
Should look into this.

C

Bill Morrison - 372-7349/6978 lab
short

8202
1321
032E

00000010
00000001

shift right & rotate.

00F2

Bill Morrison - Dept WA4 Bldg 25-17

- Gaithersburg -

loan 8 snoopy until Jan 20, 74

12/3

Pat R
456-6572

Hennis looking at what can be done for Scamp.

WTC being considered —

Terminal forecast

Country by Country —

Commitment for year —

a) Segen - Hesner problem.

b) call from Bill Brough

12/3/73 Call from Bill Brough 8444-5462

Product
WTC O&D Mktg manager for Magnetic Sys.

Reference = Jim O'hara — ^{Dept} ₉₃₃, mgt. opns planning mtg, Reg

444-7011 - operator - WTC HQ.

Bob Contino ← → Bill Brough
Would like to be here. Then. next week.
12/13/73.

Bob Contino WTC O&D 925 - Mktg.

Paul Freidl —

Bill wonders why WT O&D
prefer they go to Atlanta —

Larry Segar — 12/3/73

File Engineering Mgr — Larry Mutton — Thursday
Wednesday.

8 AM

Called PM
for P.M.

2 engineers

Arlen Bowen - Mago recording, has been attempting
Joe Ho Circuits — same type recording, etc.
also would like to talk to ray on P.S.

Task force this week to ~~and~~ determine what can be used
based on present technology.

Arlen would like to do some testing - saturation testing, etc.
have spinners & vendor 30 mil heads.

12/4/73 Call from:

Koren Deinardo 8-529-1398 Dept 732
IRD Hdqtrs - Princeton, NJ.

4225-224-3

Lence Friedman — Works for Sheldon Euler
Fred Sorkin — IRD — [Western Sales]

will be visiting Vic Witt Wed 12/5/73.

Sheldon Euler suggests he drop in and see
Scamp —

Will have Western region sales manager with
him —

Will have to get OK from Hdqtrs -

12/5/73.

Repos to Lance Friedson, IRD Mgrs.
and Fred Sorkin IRD Salesman, Western region.
Discussed entire plan for Scamp.
pointed out that with proper tracking aids
Scamp is a tracker to and for the salesman.
also touched on tape for new file -
Lance's take is that they would like a
chance to make this kind of tape if
business case warrants it.

12/6/73

Input from Joe Ma.

(via Italy)

Wants to pull Hal Hester, myself, plus two
to evaluate tape situation in Boulder, Research, etc
to enable us to make best decision for file development.

12/7.

Ed Murphy given demo - ~~Hester~~ He also had
session with Arlene Bowen, Joe Ho, and Dennis on file requirements.

12/10 - repos for Doug Graybill, DPD, White Plains -
Prod Mktg, Mfg Prod. Div.

12/12 ~~Reps~~ ~~Reps~~ Call to Larry Segar -
Results of file task force.

Looked at cartridge interchange media -
1 pipe track of 24K byte inner track
~~24K~~ 30 tracks per inch - 15 mil basal
write track - then tunnel erase both sides to 3 mil.
± 3 mil media movement allowance.
transfer data from track to track.

44 tracks
+ 1 pipe

Task force

Ricklef, Chain
Chuck Hansen
Gary Mattson
Boswell
Fox

- a) Took approach not to have to go to special heads.
- b) skew alignment of head

only Technology is 20K bPI and media -

Compromise to make Scamp date -

Other options all embedded flex -

8" hard disk / Flex heads
18 fixed tracks - Fixed disk -

Track to track write -

Fixed track - Temp, humidity, elongation ≈ 1.5 mils.
 \pm mils worse case - assume no technology
on access mechanism -

Fighter by better access mechanism - ≈ 1.5 mil.
need write wide read narrow plus bond erode -

22 mil center to center -

Head has R/W plus side bond erode -

temp & humidity is oblong growth -

Recap

1. Tolerance of access mechanism and media growth - long term stretch.
 - a) write wide read narrow.
 - b) side bond erode
 - c) write then move head & erode on both sides -

Based on Los Gatos media - end of Feb media assurance -
& prototype - mechanism & Prototype.

Tony hopes Emil is looking at media.

Guliver channel 2W2Hi,

12/13/73.

W.D. BROUUGH
BILL

WTC NY

MICIG MGR MAGNE
2 ADVANCED SYSTEMS
444-5462

H.P. FEHR
HANS

WTC NY

OP - WTC
PRODUCT LINE MGR
DEPT. MAGNETICS AND
ADVANCED PRODUCTS
Dept 927 WTC N.Y.
444-4775

J.D. LINDNER ARMONK

CORPORATE MARKETING
DEPT. 10711
251-4249

With Paul Friedl, Ray, Dennis -

Their interest is ~~not~~ ^{new} processing.

Would like to upgrade to other printers, etc. - (field update)
Laser printer? Multiple Scamps to centrally located printer

500K byte file satisfies most of their requirements.

Keyboard - 3rd level -
must be like OP typewriter.

Small business application -
accounting packages are illegal in most WT countries -

Question: Could scamp handle 4-12 KBD-CRT cluster -
File refresh from host -

Character font change -

If machine is programmable, can OP teach how to
use it?
Machine teaches itself.

Word processing - Very large initial base.

competition - LEXITRON

Displaying, MEST, MTST.
\$19,000 -

Text editing - Government --

Tube, cassette, (printer 12 CPS -)

girl - very productive in 6 hours

- General, fed. Govt. Govt. Govt.

• primary ^{class} study test in teaching with

depth (test) - 2nd writing rules of 1st class (1)
very difficult practice of original system. To writing next

Name	dept	Loc	SIV
L Rogers	P40	025	GPD
A. Maccotto	F28	014	GPD
AD Recs	F28	014	GPD
E Murphy	A44	029	SDD
K. Beaman	F59	142	GPD / ST