some Points to Mafler
Strotch was a Fiomendous accomplichmont for ite time.... for 5 years was the leading poject

- a major imestinant
- delieuntely bajond the state of the out by at lont

$$
c^{\text {w }}
$$

- pulled IBM ints a leaduship sole in the inductly
(y)

Sthetch encountred proploms of compleity on all gronts, ine were not equipped so salue and did not nailige how revion Ghey would be.
$=7 \mathrm{hy}$ trok time to solne.
Strotch - was done at just the rigitt time. (I) The technology
(Frmictorz, cores) waz juit becoming cvailuble
(2) - The fort agencies had the flaiblety't foreright to ores it -
(3) - IBh was bold enough to try it


203 years liter the trchuoligy wald be old hat 4 coubent get aprovals ; the gout would tightion its procurwant paliber \{ IBNwould be much aure couserontine,
Dumwell was a chananitce leadh who could of thatet
the hest (umealitict) commitronts from oneryone. Foncoif unsictugy that
 onhlemput the dandts wore alinost unimensal,
cinotually, frecad with delays and herbvare rederign probbrors beyond this conthal, he was brought down by the "Ceancountre",
 Stetch memovies, ceicunts, desigin torols, etc... did a divect rempp of no9 with no mpromements came out with menkine with boptivare aheady wintiten - 1 del deune 1960.
peformance $=0.16^{\circ} \times$ STRETClI $\sim\left(\frac{1}{6}\right)$

- He deeame darling of the bean-counters, Dumwell was The villon, He took ove the 2030 project ovar-man'61chohed off any futiores or improwements...

Some dentaestan foints
Ne wre all inspenencel in how to reale -paformance ow such a mide sange
Eamples; Bfformance: : was guotsd for ops. "xclureie of access "tine

- Indxing: based on 704, where indxaing was buxiel is the axecution time, the aryimed indxing was ovalyped or could be done in $\left\{00_{1} 12 \mu \sec\right.$.
$\rightarrow$ Dath Patht: Trampors of data was convidued negligitle on one elock tivie (abont 0.1 usec)
- Relative speed of operations: Flouting.
ta be about the name speed, indous whe sper ( $3 \times$ ) than add. Acturely Fladd $x$ mpy come out about same speed, divide much slower.
$\rightarrow 0$ Fl Pt oyps were teprited to be much plown than fixed pocict. actually came out the otter way mound.

Tho Math Plansing Group met starting sept 5,1956 for nett year and haef?

- Stretch Comale had Selectic Typroviter
conved it ona inth a peice of cundbond when wistors eame through
Ref: Refrence Manual 204-709-2090 Propaning Proberge for 2030 1960 sTRAP-1 enoucompila

In wthopect, - bit addensing was a mitake - cont more Then it was worth (ayte an in 360 was much hextes)

- single accumbator was a mistake, G PPí hatta idea
- tome specid indering ops -"popucsine udsang" "geonotwei aibe"

Problems:

- desigh too complex ... There war no evay way to delete,
- not enolutionary
- refterane was a bij problem triabsd as if it were a mallone.
 propect.
- Trduindors mere 10 ms not 10 no in cicíuits.
- additiond compleity to compensate

Suteratring fosple to mention:

- curtabert thul
- Sullivan Camplell
- Wemer Buahnolz
- gent Blaano
- PrM. Frank

Roger B, Jogomes
Ed a, vorheen
Dave F. Woods
W. dack Wollon
ealis Níh Mitsopobi
oplood by Mund Nolls
Free brook
Siln Giffith
Elaine Boehm

Nominal speeds: scientifei

note:

$$
\frac{7030}{2090}=6
$$

