

Track width 20 mils

Oct 1, 58

25,000 BTU per hr. heat output

Disk Characteristics

1800 rpm (33.3 msec \approx 32 msec)

40 disks (80 faces)

~~230~~ bits/inch = density

2 access mechanisms (40 heads ea)

$\sim 3.5 \mu s$ / bit = rate

128 tracks per disk face
(may go to 256)



40 = 32 + 7 + 1 (timing & addressing track)

2 pr wd

28 tracks 256

2¹³ words / track = 4096 wds. ?

cover disks top & bottom aerodynamics

odd tracks 1, 3, 5, ..., 255

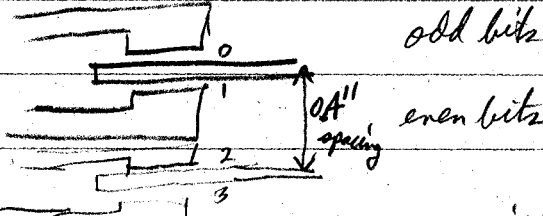
shaft is motor (inside out)

lock points

• • (- - - - -) * regular RAMAC

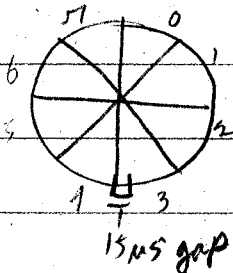
Cach

aerodynamic



Each track 8 sectors

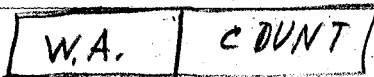
without Roll feature: worst access = 1 (rev)
average = 1/2 (rev)



8192 wds / track (may go to 8192) does 1024
512 wds / sector

on Locate: track + sector 2" locations addressable

Control Word



Roll feature: Track + 0 sector count = 4096. m is required
worst access = 1/8 (rev) average 1/16 (rev) = (2 μs)

average transmission per word

automatic locate feature

when reading even track odd track locates to next.

heads will stay where they were.

Can read a piece of sector eg. 500 words
but writing

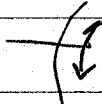
Random search

175 ms from track 0 to 254 worst case
+33

208 ms worst case for 1st access.

average ~ 100 ms
 ~ 16

~ 120 ms average random access.

Skew: 5 elements (lateral movement) 

1. arm rock

2. jitter (due to air blast) on each head,

3. Torsional vibration of shaft

4. Frame vibration (between arms
& frame)

5. Electronics

