

PRELIMINARY NOTES ON THE DISK DRIVE AND CONTROLLER

Disk Drive: The drive is an AMPEX Model DN312. It uses an IBM 2316, twenty surface disk pack. Each surface has 203 cylinders, of which only 200 are used. Each of these 4000 tracks can store up to a maximum of 3520 to 3800 sixteen bit words, depending on the blocking factor.

Maximum total storage:  $15.2(10)^6$  words

Rotation speed: 2400 RPM = 40 Hz  $\pm 2\%$

Period: 25 msec

Average latency: 12.5 msec

Transfer rate: 156.25 words/msec

Cylinder access times: 8 msec, one cylinder

53 msec, 200 cylinders

32 msec, average over possible seeks.

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