	Cheetah 15K.5	Barracuda
Capacity	300 GB	1 TB
RPM	15,000	7,200
Average Seek	4 ms	9 ms
Max Transfer	125 MB/s	105 MB/s
Platters	4	4
Cache	16 MB	16/32 MB
Connects Via	SCSI	SATA

TrotationArrage =
$$\frac{60}{RPM}$$
 /2 = 0,0045/2 = 0,0025

Beispiel:

Random -D viele 16 KB Schreibvorgänge and Cheeta

Trotation =
$$\frac{1}{15000/60}$$
 /2 = 2ms

Trotation = $\frac{1}{15000/60}$ /2 = 2ms

Thansfer = $\frac{(16 (B)/1024)}{125 MB/s}$ = $\frac{(1000125)}{125 MB/s}$ = 0,000125 = 0,125 ms

Time = $\frac{1}{125 MB/s}$ = $\frac{1}{125 MB/s}$ = $\frac{1}{125 MB/s}$ = $\frac{1}{125 MB/s}$

$$T_{1/0} = 4 \text{ ms} + 2 \text{ ms} + 0,125 \text{ ns} = 6,125 \text{ ms} = 0,0061255$$

$$R_{1/0} = \frac{(1648/1024)}{0,0061255} = \frac{0,015625 MB}{0,0061255} = 2,5 MB/s$$

Sequentiel -D ein 100 mB Schreibvorgange auf Cheeta

Tseek Aveage = 4mg

Trotation = 2 mg

Ttransfe = 100 MB = 0,8 = 800 ms

T110 = 4 ms + 2 ms + 800 ms = 806 ms

R1/0 = 100 MB = 124 MB/s