

=== THE LANDMARK CPU SPEED TEST: SPEED Version 1.12 ===

Copyright 1986-1988 Landmark Software

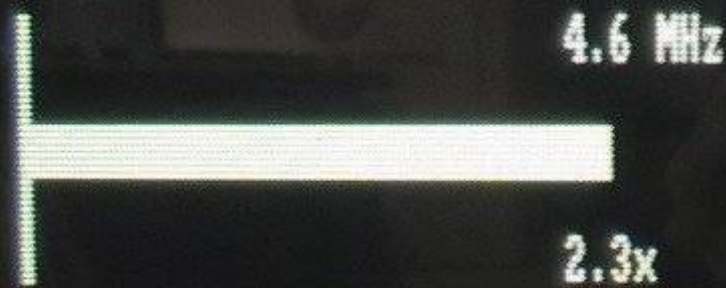
— All Rights Reserved —

1142 Pomegranate Court

Sunnyvale CA 94087

408-733-4035

This system is performing like an IBM AT running at:



Performance relative to 4.77 MHz PC or XT:



Current time: 09:32:29

Elapsed time since starting program: 00:00:51

Current test: 79

Elapsed time for the latest test: 221 ms

F1 [F1] Q [Q] C [C] \$ [S] ESC [ESC]

CPUE™

(C) 1985 CORE INTERNATIONAL, INC.

DISK PERFORMANCE PROGRAM
Ver 1.0

542 S.E. 5th Avenue ♦ Delray Beach, Florida 33444 ♦ 305/276-3929

Press any key to continue ...

This program is used to identify the actual performance specifications of hard disk drives. The evaluation is made using three tests.

First is a track-to-track test which measures access time resulting from loading or reading contiguously stored data. The second test is typical of most business applications which perform a mixture of random and contiguous disk accesses. The last test is the most strenuous and will measure a true random access which is identified by drive manufacturers as the "Average Access Time."

In all cases, 1000 seeks are performed in each of the tests. Results are reported in milliseconds (ms - thousandths of a second). As an example, a drive with an average access time of 30ms is twice as fast as another drive reporting 60ms. IBM specifications for the AT list a track-to-track access time of 10ms and an average access time of 40ms. Drives which show access times less than these values are superior to the standard IBM disk drives. These tests can be run many times without destroying any data.

ENTER DRIVE NUMBER TO TEST (1, 2, OR 0 TO END) :

TRACK TO TRACK TEST IN OPERATION identify the actual performance
AVERAGE ACCESS TIME FOR TRACK TO TRACK TEST WAS 0.21 MILLISECONDS

RANDOM & TRACK TO TRACK TEST IN OPERATION
AVERAGE ACCESS TIME FOR RANDOM & TRACK TO TRACK TEST WAS 00.21 MILLISECONDS

RANDOM TEST IN OPERATION
AVERAGE ACCESS TIME FOR RANDOM TEST WAS 00.21 MILLISECONDS

THIS IS THE ULTIMATE IN HARD DISK PERFORMANCE. IT EXCEEDS ALL
IBM SPECIFICATIONS BY MORE THAN THIRTY PERCENT FOR THE PC-AT.

ENTER DRIVE NUMBER TO TEST (1, 2, OR 0 TO END) : -

**NB: Virtual MS-DOS hard disks (C:\ & D:\)
are 'MSDOSVOL' files residing in ProDOS volumes
on BOOTI USB hard drive emulator card in slot 7 of
a ROM 01 Apple IIGS**

(C) Copyright CORE International, Inc. 1986

Seek Times	Hard Disk 0	KBytes Read
Size : 16.4 MB	Heads : 4	2048
Cyls : 470	Sects : 17	1536
Rot Lat : 1008 MB	HDD Time : 4.1 secs	1024
Data Transfer Rate : 266.2 MB/sec		512
Average Seek Time : 2.4 ms (470		256
Track-Track Seek : 2.4 ms (cyls)		128
Performance Index : 24.212		64

	Hard Disk 1	KBytes Read
Size : 0.1 MB	Heads : 4	2048
Cyls : 3	Sects : 17	1536
Rot Lat : 748 MB	HDD Time : 4.1 secs	1024
Data Transfer Rate : 184.0 MB/sec		512
Average Seek Time : 2.4 ms (3		256
Track-Track Seek : 2.4 ms (cyls)		128
Performance Index : 23.723		64

HDD0 HDD1

Transfer Block Size: 3400

Hard Disk 0 transfer rate is 45% faster than Hard Disk 1

Hard Disk 1 seek time is 0% faster than Hard Disk 0

Applied Engineering PC/Transporter (Wed 07-05-2023 9:34:19)
C:\SPROST\

My Utilities(tm) by Ya'akov. Copyright(c) 1985

Measures average access time of IBM-PC/XT and IBM-PC/AT hard disk

Found 2 disks. Which one do you want? 1

..Found 470 cylinders. Recalibrating...

Testing 1000 cylinders or until any key is pressed...

...performed 1000 seeks in 0 seconds

Average Access (Milliseconds)

<< Your >> disk -> 0.5

IBM-PC/AT disk -> 23.2
IBM-PC/AT disk -> 23.2

Applied Engineering PC/Transporter (Wed 07-05-2023 9:40:49)
C:\SPUBISH_

My Utilities(tm) by Ya'akov. Copyright(c) 1985

Measures average access time of IBM-PC/XT and IBM-PC/AT hard disk

Found 2 disks. Which one do you want? 2

..Found 3 cylinders. Recalibrating...

Testing 1000 cylinders or until any key is pressed...

...performed 1000 seeks in 1 seconds

Average Access (Milliseconds)

<< Your >> disk --> 0.5

IBM-PC/XT disk --> 93.3

IBM-PC/AT disk --> 73.3

Applied Engineering PC/Transporter (Wed 07-05-2023 9:41:24)
C:\SPEEDTST)

Routine:	IBM PC		IBM PC		IBM PC		Hours	
	8088	V-280	8088	V-280	8088	V-280	8088	V-280
Integer Count	24 (1.0)	23 (1.0)	20 (0.7)	19 (0.7)	15 (0.6)	14 (0.6)	12 (0.5)	11 (0.5)
Real Count	29 (1.0)	26 (1.0)	11 (0.4)	10 (0.4)	8 (0.3)	7 (0.3)	6 (0.2)	5 (0.2)
Table Lookup	28 (1.0)	26 (1.0)	20 (0.7)	19 (0.7)	15 (0.5)	14 (0.5)	12 (0.4)	11 (0.4)
String Manipulation	29 (1.0)	17 (0.6)	10 (0.3)	9 (0.3)	7 (0.2)	6 (0.2)	5 (0.2)	4 (0.1)
Empty Loop	29 (1.0)	25 (0.9)	20 (0.7)	19 (0.7)	15 (0.5)	14 (0.5)	12 (0.4)	11 (0.4)
Total Timing	139 (1.0)	117 (0.8)	66 (0.5)	60 (0.4)	45 (0.3)	41 (0.3)	34 (0.2)	31 (0.2)

Press any key to continue

ATPERF -- PC Tech Journal AT Hardware Performance Test
Version 1.00, Copyright (c) 1986 PC Tech Journal
IBM PC/AT model 339 (8 MHz) = 1.00 for relative measurements.

	Byte	Word	Relative
Average ROM instr. fetch:		1.444 uS	0.28
Average ROM read time:	0.297 uS	0.265 uS	1.52
Average ROM write time:	1.673 uS	0.19 uS	2.11
Average ROM read time:	0.19 uS	0.149 uS	2.7
Average Video write time:	1.747 uS	1.49 uS	1.62

Clock rate: 4.4 MHz Relative: 0.55
Refresh overhead: 30.5%

Memory	Access width	Wait states
ROM read	Word	-1
ROM write	Strange	5
ROM read	Strange	-1
Video write	Word	6

Applied Engineering PC/Transporter (Wed 07-05-2023 9:32:58)
C:\SPEEDIST)_

System Information

Computer - IBM/PC XT
BIOS programs dated - 07/03/87
Operating system - DOS 5.00
Number of logical disk drives - 5
Logical drive letter range - A thru E
Serial Ports - 0
Parallel Ports - 1
CPU Type - NEC V20
Relative speed (orig PC=100%) - 220%
Math co-processor present - No
User programs are loaded at HEX paragraph - 1238
Memory used by DOS and resident programs - 74624 bytes
Memory available for user programs - 580736 bytes
Total memory reported by DOS - 640K
PC Shell has found the total memory to be - 640K
Color Graphics Adapter present

Applied Engineering PC/Transporter (Wed 07-05-2023 9:30:13)
C:\SPEEDTST\DIR

Volume in drive C is MS-DOS 5
Volume Serial Number is 532I-680C
Directory of C:\SPEEDTST

.		<DIR>	06-22-23	6:25p
..		<DIR>	06-22-23	6:25p
ATPERF	EXE	89894	05-13-87	5:25p
BATMAN	EXE	26608	10-25-88	1:58p
CORETEST	EXE	31999	05-08-87	1:31p
CYLOH	CON	384	11-08-87	6:22p
DISKPERF	EXE	7936	03-02-87	6:51p
DISKTIME	CON	13924	08-04-86	2:07p
DOSEDIT	CON	3872	10-11-86	8:36a
LANDMARK	CON	40306	10-11-88	9:10a
MAP	CON	34444	05-09-90	3:09p
PCSTATUS	CON	16256	08-05-86	1:34p
SSE-V2	CON	17409	07-27-86	12:33a
13 file(s)		282232	bytes	
		888640	bytes free	

Applied Engineering PC/Transporter (Wed 07-05-2023 9:30:15)
C:\SPEEDTST