



System Memory

Conventional
 Extended / Expanded
 UMB
 HIMEM

1024K
 or
 1MB

Extended Memory
 Used by Windows
 Requires
 Himem.sys

Expanded Memory
 Requires emm -ram
 Memory manager

DOS Barrier/Limit
 640K to 1 MB
Upper Memory Blocks

ROM system	64k	FFFF
page frame		E000
available	88K	GFFF
		E000
		DFFF
ROM BIOS	8k	CA00
		C9FF
available	16K	C800
		C7FF
ROM		C400
	16k	C3FF
video		C000
	32k	BFFF
available	32K	B800
		B7FF
video		B000
	64k	AFFF
		A000

hexadecimal counting
 0 1 2 3 4 5 6 7 8 9 A B C D E F
 = 16 bits
 used by memory locations and
 software programmers

640K

64K = 65,536

9000	576K
8000	512K
7000	448K
6000	384K
5000	320K
4000	256K
3000	192K
2000	128K
1000	64K

Conventional Memory

programs
 load after
 DOS &
 drivers

drivers load here

DOS
 loads here

OK

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