

# 1 Memory map

0x00000000 0x000004FF	{	Real mode data 1280B
0x00000500 0x00007BFF	{	Stage2 / Kernel area 30KB
0x00007C00 0x00007DFF	{	Boot sector memory 512B
0x00007E00 0x0007FFFF	{	Kernel continued / Free 480.5KB
0x00080000 0x000FFFFFFF	{	Reserved 512KB
0x00100000 0x00EFFFFFFF	{	Free 14MB
0x00F00000 0x00FFFFFFF	{	ISA Memory Hole / Reserved 1MB
0x01000000 0xBFFFFFFF	{	Free Big space I didn't calculate
0xC0000000 0xFFFFFFFF	{	Various / Reserved 1GiB (May be free once mapped)

## 2 Fixed allocation memory locations

The follow memory locations are either defined as standard locations or have been chosen to reduce disk usage on allocating empty space.

- 0x00000500-?: Stage 2 / Kernel start
- 0x00007E00-0x000081FF (1K): Floppy Drive Controller Read Write Buffer
- 0x00008200-0x000085FF (1K): File System Table
- 0x00008600-0x000087FF (512b): VESA Mode info
- 0x00008800-0x000089FF (512b): VESA info
- 0xA0000-0xBFFFF: VGA Video memory