A compiler takes the source code and convorts it into a machine language module called an object file 17 linker combines this object file with other previous by compiled object files to create an executable file. Linker checks to see if the program contains any calls to procedures in a link library, combines them with other object files and produces an executable file. An OS loader loads these executable files into memory and branches the CPU to the program's starting address and it begins to execute.

Or Secoment Register defines the starting address of the section of memory. In real-address mode 16-lit segment registers indicate base address of pre-assigned memory areas; named segments In protection mode, it selects a descriptor that describes the starting address are length of a section of memory hadding code.

QZà segment ABDEL offset-50894 Real Address = segment *10 + offset.

ndoin Ali Micza e 200333 3E-BSCS 8F E 30 +A835F 1852F4 i segment = Real Address-Offsel = F95Bh J A5B6 -2= Segment = 520B 4 offset = 5208 h and object oriented language. It is platform independent since its the compiled code can be son on any journ supporting platform. When the program runs in a madeline it is sent to java compiler which converts the code into byte code, which is sent to Java virtual machine (JVM), which resides in the RAM of OS. The JUM detects the Plattorn and translates the byte codes to machine code.

s Similarities

1. Both are modes of operation 2. Both creates IMB of address space.

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overwrite instructions which can cause the 0s to crash. 2. Real Address Doesn't give protection to

memory. 3. Virtual mode doosn't allow access to different parts of memory.

Ob Status Floods: which report on the result operation. They are sign, zero, auxiliary carry, parity, carry and over flow flood.

control Flags:- They enable or disable certain operations of the microprocessor In other words they determine how instructions are carried out. These flags are trap, interrupt and direction flag.