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17/Engelovs

CoS 306

*[Signature]*

(1) Because the coded addresses in the instructions would have to be updated whenever new variables were inserted before existing ones

(b) The ~~2~~ EFL files are the files produced by the assembler  
Object: .OBJ and Listing: .LST files

(2) Portability in programming is a taste of doing work necessary to make the program work in a new environment

2 a Portability in programming is when a computer program can be used in an operating system other than the one it was created without requiring major rework.

~~White porting~~

(2c)

32-bit registers

16-bit registers.

16

15

8

7

EAX

EBX

ECX

EDX

AH

BH

CH

DH

AL

BL

CL

DL

AX

BX

CX

DX

AX - Accumulator

BX - Base

CX - Counter

DX - Data

2b

No. Because each assembly language is based on either a processor family or a specific computer.

~~Defn~~

~~Defn~~

~~Defn~~

(Q3) a. Segmentation is achieved when each segment is used to contain a specific type of data. one of the segments <sup>carries</sup> ~~contains~~ the instruction codes. another segment stores the data and the third segment keeps the program stack.

Ans.

Ans

4

~~Assembly~~  
Title Add and Subtract (Addsub.asm)

INCLUDE Irvine32.inc

Code

Main Proc

Mov Eax, 9000h

Sub Eax, 4000h

Sub Eax, 2000h

Call DumpRegs

Main EndP

END main

Exit.