

Computer Organization and Assembly Language

Final Exam, Spring 2014

Date: 26-05-2014

Marks: 50

Time: 180 mins.

- It is an open book and open notes exam. Write neat and well-commented programs.
- You are not allowed to ask anything during exam. In case you find any ambiguity in a question, clearly state your assumptions and move on.

Question 1:

[12 Marks]

Suppose that data (of a screen saver) of 2000 words of display memory is placed on stack with the last word of display memory (i.e. word at 0xB800:3998) placed at the bottom of the stack. You need to display this data on screen and after each second slide it by n characters towards left starting from the bottom of the screen. Initially the value of n is 2 (i.e. you need to slide each character towards its left by n units), after another second passes by, this value will be 4 (previous value of $n * 2$), after yet another second it will be 8 (previous value of $n * 2$). This will continue till the whole screen data will be rubbed off. Use white foreground to rub data.

Use *string instructions only* to dump and slide data on display screen. No credit will be given without string instructions. Note that you are not required to scroll up rows here neither you are required to slide all rows simultaneously towards their left. You are required to slide characters towards left starting from bottom right corner of screen sliding (smoking) its way up to top left corner.

Let's say initially data dumped on screen is like this. Note the bold alphabets to understand how sliding is going on.

Initial Data:

After 2 sec:

After 4 sec:

This is a sample mini window. It will show how to left slide (shift) each character of screen starting from bottom right corner shifting all the way up towards top left corner.	is is a sample mini window. It will show how to left slide (shift) each character of screen starting from bottom right corner shifting all the way up towards top left corner.	s a sample mini window. It will show how to left slide (shift) each character of screen starting from bottom right corner shifting all the way up towards top left corner.
Hope I have made myself clear.Go	pe I have made myself clear.Go	ave made myself clear.Go

Question 2:

[12 Marks]

BIOS has its keyboard services hooked at int 0x16. Update its "get character" service (ah=0) such that whenever an alphabet's key (a-z, A-Z) is pressed on keyboard, this service returns the ascii of the respective lower case letter (a-z) in al. For every other keystroke, 0x16 behavior remains unchanged. Take reasonable assumptions where needed and state them clearly.

Assembly Language Final Exam Answers

DJ Losen



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