

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

Michael Rajnik



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Programming Assembly Language Driver,1993 15 PGT Chemistry Test Papers EMRS Mocktime Publication, EMRS Exam Teachers PGT Chemistry Test Papers 15 Practice Papers Tier 1 Eklavya Model Residential Schools as per Official Exam Pattern and Syllabus *Computer training courses and seminars* National Institutes of Health (U.S.). Computer Center Branch,1975 **Relative Levels of Intelligence in College and High School** Vivan Lewis Strickland,1927 **The MC68000 Assembly Language and Systems Programming** William Ford,William R. Topp,1988 **Objective Tests** Jacob Samuel Orleans,Glenn A. Sealy,1928 **The Case Against Professor Briggs ...** Charles Augustus Briggs,1893

Trade Tests James Crosby Chapman,1921 **IBM OS Assembler Language** Donna N. Tabler,Ruth Ashley,Judi N. Fernandez,1986 Using a real world practical approach to the material the third volume in this series covers subroutines subprograms macros and tables Like its predecessors in this series this self teaching guide has a programmed instruction format with objectives exercises reviews and applications questions The book provides important information on coding generalized subroutines passing data to generalized subroutines copying source codes assembling and linking subprograms defining macros controlling macro expansions using an index register programming for the sorted loading routine etc

Bulletin Kansas State University,1920 Principles of Business Data Processing SRA Data-Processing Curriculum Group,Mike Murach,1970 *Function of the Institute Management* Leon Pratt Alford,1928 **Program Interfacing 8086 8088** Goody,1992 **The 80x86 Family** John E. Uffenbeck,1998 Disk contains Listings for all the program files in text

Computing P. M. Heathcote,K. R. Bond,1997 This text on computing is one of a series of study guides for A Levels and Scottish Higher Grade which are designed for use throughout the course as a supplement to studies at school or college and as revision guides for the final approach to the exams The focus is on the knowledge and techniques needed to pass with the best possible grades and there is practical guidance on studying revising course work and exam preparation Exam questions are included for each topic and a test run section incorporates a progress test and a mock exam with answers **Manual on the Local Construction and Uses of Objective Tests** Jacob Samuel Orleans,1927 The Advisor, Teacher-course Evaluation University of Illinois at Urbana-Champaign. Student Senate,1971 **Institute of Management Series** ,1929

Vocational-technical Learning Materials Bruce Reinhart,1974 *Large Problems, Small Machines* Steve Heller,1992 Optimizing software means fine tuning the code so that a program executes as quickly as possible while using a minimum of system resources such as memory and disk storage This book shows how to write software meeting those goals As applications continue to stretch the limits of hardware time and space optimization remain critical This book uses complete software projects to illustrate optimization as it exists in the real world including compromises inherent in the various processes Numerous examples and review questions are included

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