

Manual of Mini-CPU of Computer Architecture Project

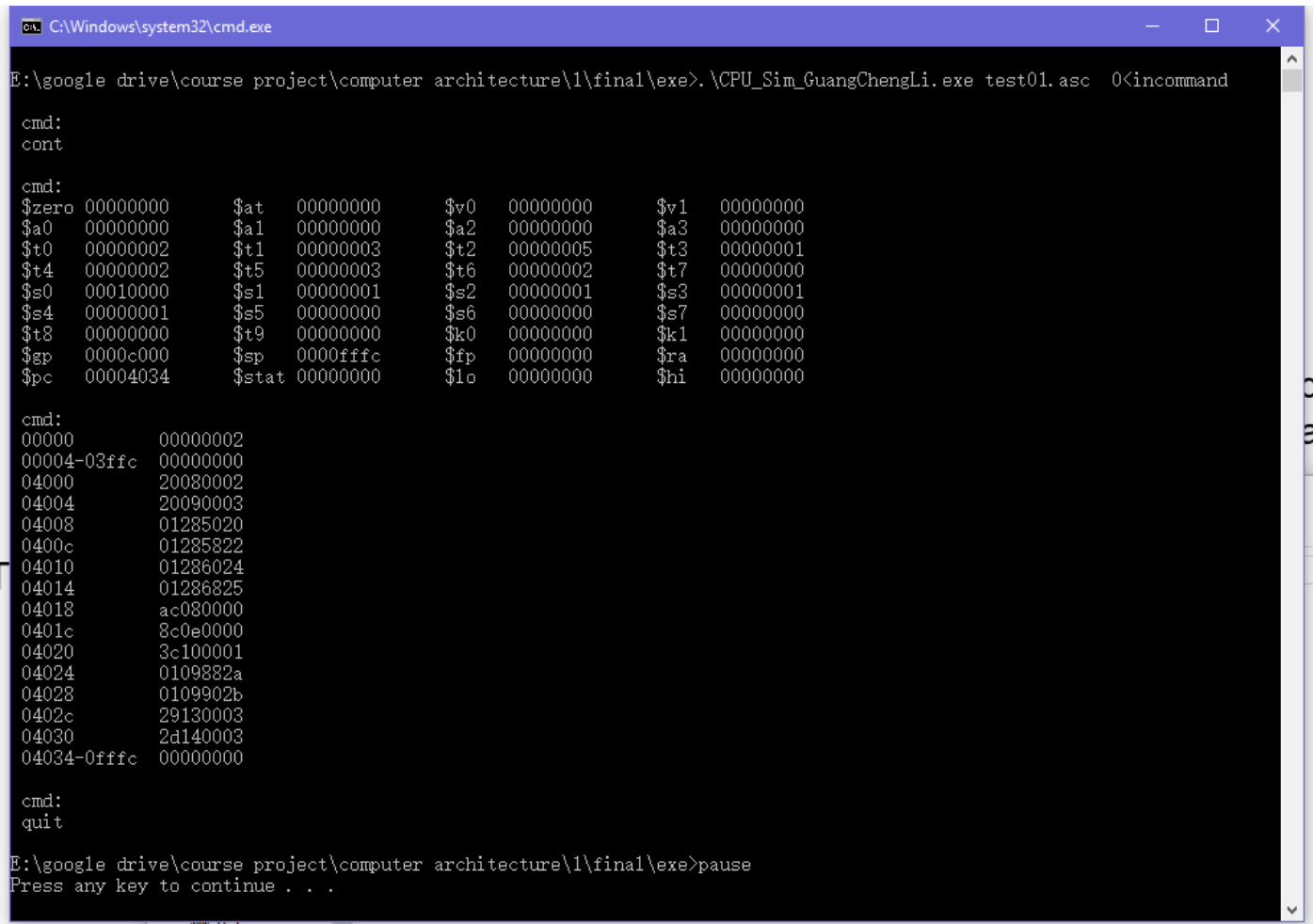
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1. You can see 2 files and 2 folders in the directory when you unzip my submission (i.e., Fig. 1).

Name	Date modified	Type	Size
exe	22/3/2017 5:09 PM	File folder	
vs_sln	22/3/2017 5:08 PM	File folder	
component.c	22/3/2017 5:01 PM	C Source	8 KB
Manual.pdf	22/3/2017 5:10 PM	Adobe Acrobat Document	89 KB

Fig. 1 Initial directory structure

- “Manual.pdf” is this document you are reading now;
 - “component.c” is the main work of this project;
 - “exe” is a folder includes the executable program in windows:
 - “CPU_Sim_GuangChengLi.exe” is the program, it built by Visual Studio 2015;
 - “run.bat” is a quick test script, it will use “test01.asc” to test the program and display result when you running it.
 - “vs_sln” is a folder includes the Visual Studio solution of the project.
2. The result of “test01.asc” is showing in Figure 1.



```
C:\Windows\system32\cmd.exe
E:\google drive\course project\computer architecture\1\final\exe>.CPU_Sim_GuangChengLi.exe test01.asc 0<incommand

cmd:
cont

cmd:
$zero 00000000 $at 00000000 $v0 00000000 $v1 00000000
$a0 00000000 $a1 00000000 $a2 00000000 $a3 00000000
$t0 00000002 $t1 00000003 $t2 00000005 $t3 00000001
$t4 00000002 $t5 00000003 $t6 00000002 $t7 00000000
$s0 00010000 $s1 00000001 $s2 00000001 $s3 00000001
$s4 00000001 $s5 00000000 $s6 00000000 $s7 00000000
$t8 00000000 $t9 00000000 $k0 00000000 $k1 00000000
$gp 0000c000 $sp 0000ffff $fp 00000000 $ra 00000000
$pc 00004034 $stat 00000000 $lo 00000000 $hi 00000000

cmd:
00000 00000002
00004-03ffc 00000000
04000 20080002
04004 20090003
04008 01285020
0400c 01285822
04010 01286024
04014 01286825
04018 ac080000
0401c 8c0e0000
04020 3c100001
04024 0109882a
04028 0109902b
0402c 29130003
04030 2d140003
04034-0ffc 00000000

cmd:
quit

E:\google drive\course project\computer architecture\1\final\exe>pause
Press any key to continue . . .
```

Figure 1 Result of "test01.asc"