```
rishab@ada:~/Fall2017/cs510-Os/project1$ asm Hello.s
rishab@ada:~/Fall2017/cs510-Os/project1$ lddd Hello.o -o Hello
rishab@ada:~/Fall2017/cs510-Os/project1$ blitz -g Hello
Beginning execution...
Hello, world!
**** A 'debug' instruction was encountered *****
Done! The next instruction to execute will be:
000080: A1FFFFB8 jmp 0xFFFFB8 ! targetAddr = main
Entering machine-level debugger...
_____
=====
===== The BLITZ Machine Emulator =====
=====
 ==== Copyright 2001-2007, Harry H. Porter III =====
Enter a command at the prompt. Type 'quit' to exit or 'help' for
info about commands.
Number of Disk Reads = 0
Number of Disk Writes = 0
Instructions Executed = 1705
Time Spent Sleeping = 0
Total Elapsed Time = 1705
```

```
rishab@ada:~/Fall2017/cs510-Os/project1$ kpl -unsafe System rishab@ada:~/Fall2017/cs510-Os/project1$ asm System.s rishab@ada:~/Fall2017/cs510-Os/project1$ kpl HelloWorld rishab@ada:~/Fall2017/cs510-Os/project1$ asm HelloWorld.s rishab@ada:~/Fall2017/cs510-Os/project1$ asm Runtime.s rishab@ada:~/Fall2017/cs510-Os/project1$ lddd System.o Runtime.o HelloWorld.o -o HelloWorld
rishab@ada:~/Fall2017/cs510-Os/project1$ blitz -g HelloWorld
              ======= KPL PROGRAM STARTING ===========
  ======== KPL PROGRAM TERMINATION =======
**** A 'debug' instruction was encountered *****
Done! The next instruction to execute will be:
                                                                    ! 0x00000DA8 = 3496 (noGoMessage)
Entering machine-level debugger...
 Enter a command at the prompt. Type 'quit' to exit or 'help' for
 info about commands.
 > g
Beginning execution...
The KPL program has terminated; you may not continue!
**** A 'debug' instruction was encountered *****

Done! The next instruction to execute will be:

000D98: C0100000 sethi 0x0000,r1 ! 0x00000DA8 = 3496 (noGoMessage)
Number of Disk Reads = 0
Number of Disk Writes = 0
Number of Disk Writes
 Time Spent Sleeping
Total Elapsed Time
                                   = 0
```

```
rishab@ada:~/Fall2017/cs510-Os/project1$ blitz -g HelloWorld
Beginning execution...
   Hello, world...
      ======= KPL PROGRAM TERMINATION ========
**** A 'debug' instruction was encountered *****
Done! The next instruction to execute will be:
000D98: C0100000 sethi 0x0000,r1 ! 0x00000DA8 = 3496 (noGoMessage)
Entering machine-level debugger...
            The BLITZ Machine Emulator
 ==== Copyright 2001-2007, Harry H. Porter III =====
Enter a command at the prompt. Type 'quit' to exit or 'help' for
info about commands.
> t
The KPL program has terminated; you may not continue!
**** A 'debug' instruction was encountered *****
About to execute RETURN statement
Already at top of stack!
 ==== Frame number 0 (where StackTop = 0) =====
Bottom of activation frame stack!
Resetting current frame to top of stack!
==== Frame number 1 (where StackTop = 0) =====
Invalid activation frame stack! The frame pointer is 0x00000000.
Resetting current frame to top of stack!
Number of Disk Reads = 0
Number of Disk Writes
Instructions Executed = 1296
Time Spent Sleeping = 0
Total Elapsed Time = 1296
rishab@ada:~/Fall2017/cs510-Os/project1$ [
```