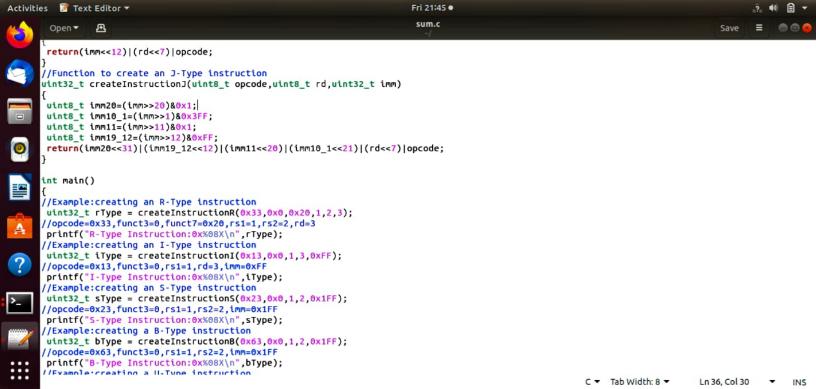
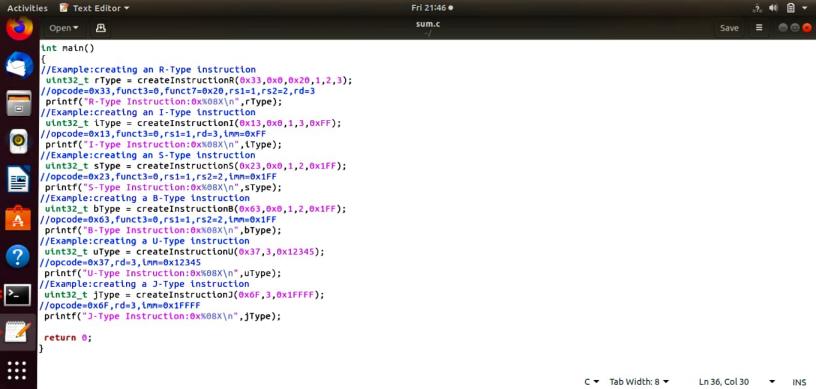
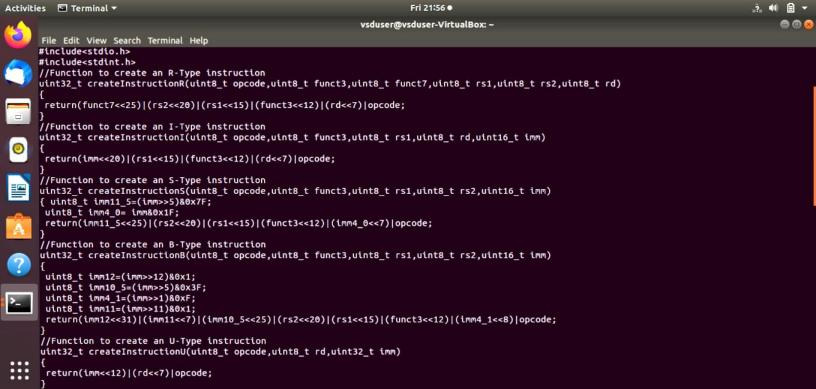
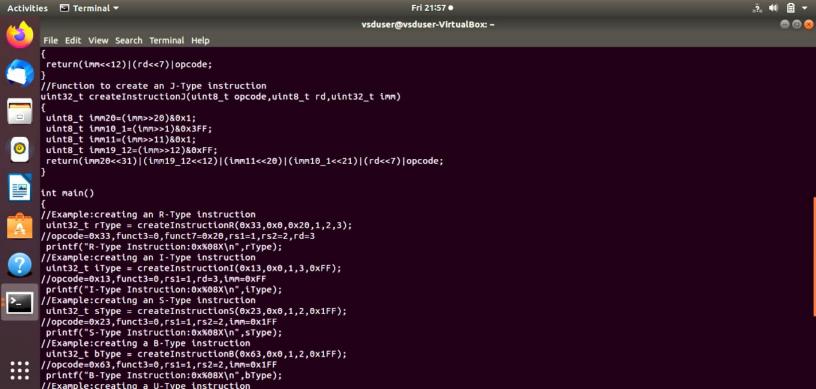


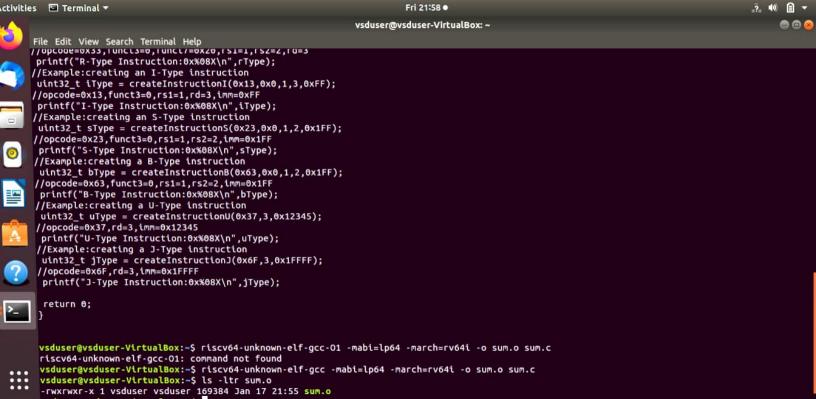
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      #include<stdio.h>
      #include<stdint.h>
      //Function to create an R-Type instruction
       uint32_t createInstructionR(uint8_t opcode,uint8_t funct3,uint8_t funct7,uint8_t rs1,uint8_t rs2,uint8_t rd)
       return(funct7<<25)|(rs2<<20)|(rs1<<15)|(funct3<<12)|(rd<<7)|opcode;
0
       //Function to create an I-Type instruction
      uint32_t createInstructionI(uint8_t opcode,uint8_t funct3,uint8_t rs1,uint8_t rd,uint16_t imm)
0
       return(imm<<20)|(rs1<<15)|(funct3<<12)|(rd<<7)|opcode;
       //Function to create an S-Type instruction
      uint32_t createInstructionS(uint8_t opcode,uint8_t funct3,uint8_t rs1,uint8_t rs2,uint16_t imm)
       { uint8_t imm11_5=(imm>>5)&0x7F;
       uint8 t imm4 0= imm&0x1F;
       return(imm11 5<<25)|(rs2<<20)|(rs1<<15)|(funct3<<12)|(imm4 0<<7)|opcode;
       //Function to create an B-Type instruction
      uint32_t createInstructionB(uint8_t opcode,uint8_t funct3,uint8_t rs1,uint8_t rs2,uint16_t imm)
       uint8 t imm12=(imm>>12)&0x1:
       uint8 t imm10 5=(imm>>5)&0x3F;
       uint8 t imm4 1=(imm>>1)&0xF;
       uint8 t imm11=(imm>>11)&0x1:
       return(imm12<<31)|(imm11<<7)|(imm10 5<<25)|(rs2<<20)|(rs1<<15)|(funct3<<12)|(imm4 1<<8)|opcode;
       //Function to create an U-Type instruction
       uint32_t createInstructionU(uint8_t opcode,uint8_t rd,uint32_t imm)
       return(imm<<12)|(rd<<7)|opcode;
...
...
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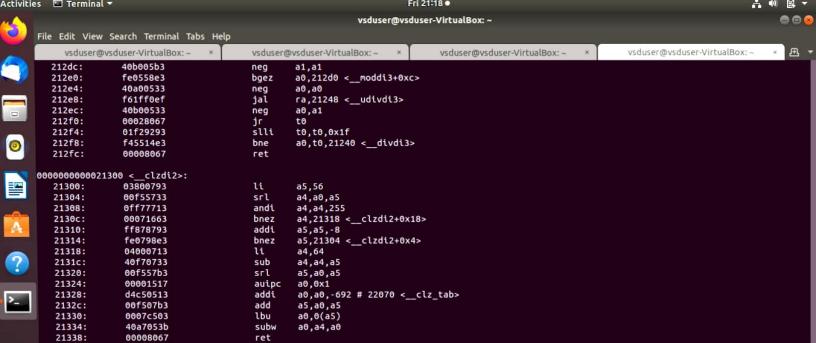












**Activities**  Terminal ▼ Fri 21:18 • vsduser@vsduser-VirtualBox File Edit View Search Terminal Tabs Help vsduser@vsduser-VirtualBox: ~ vsduser@vsduser-VirtualBox: ~ vsduser@v 212dc: 40b005b3 a1,a1 neg a0,212d0 < moddi3+0xc> 212e0: fe0558e3 bgez 212e4: 40a00533 neg a0, a0 212e8: f61ff0ef jal ra,21248 < udivdi3> 212ec: 40b00533 a0,a1 neg 212f0: 00028067 jr t0 212f4: 01f29293 slli t0, t0, 0x1f 212f8: f45514e3 bne a0,t0,21240 < divdi3> 212fc: 00008067 ret 0000000000021300 < clzdi2>: li 21300: 03800793 a5,56 21304: 00f55733 srl a4.a0.a5 21308: 0ff77713 andi a4.a4.255 2130c: 00071663 bnez a4,21318 < clzdi2+0x18> 21310: ff878793 addi a5, a5, -8 fe0798e3 bnez a5,21304 < clzdi2+0x4> 21314: li 21318: 04000713 a4,64 40f70733 2131c: sub a4,a4,a5 00f557b3 21320: srl a5, a0, a5

