






File Edit View Search Terminal Help

```
vsduser@vsduser-VirtualBox:~$ gcc sumiton.c
vsduser@vsduser-VirtualBox:~$ ./a.out
Sum of numbers from 1 to 5 is 15
vsduser@vsduser-VirtualBox:~$ gedit sumiton.c
vsduser@vsduser-VirtualBox:~$ gcc sumiton.c
vsduser@vsduser-VirtualBox:~$ ./a.out
Sum of numbers from 1 to 100 is 5050
vsduser@vsduser-VirtualBox:~$
```



Mouse integration ...



Auto capture keyboard ...

```
File Edit View Search Window Help
sum1ton.c
Save
#include<stdio.h>

int main() {
    int i, sum = 0, n = 100;
    for (i=1; i <=n; ++i) {
        sum +=i;
    }
    printf("Sum of numbers from 1 to %d is %d\n", n, sum);
    return 0;
}
```



```

File Edit View Search Terminal Tabs Help
vsduser@vsduser-VirtualBox: ~
000000000010184 <main>:
10184: ff010113      addi    sp,sp,-16
10188: 00113423      sd      ra,8(sp)
1018c: 06400793      li      a5,100
10190: fff7879b      addiw   a5,a5,-1
10194: fe079ee3      bnez    a5,10190 <main+0xc>
10198: 00001637      lui     a2,0x1
1019c: 3ba60613      addi    a2,a2,954 # 13ba <register_fini-0xecf6>
101a0: 06400593      li      a1,100
101a4: 00021537      lui     a0,0x21
101a8: 19050513      addi    a0,a0,400 # 21190 <__clzdi2+0x48>
101ac: 26c000ef      jal     ra,10418 <printf>
101b0: 00000513      li      a0,0
101b4: 00813083      ld      ra,8(sp)
101b8: 01010113      addi    sp,sp,16
101bc: 00008067      ret

0000000000101c0 <atexit>:
101c0: 00050593      mv      a1,a0
101c4: 00000693      li      a3,0
101c8: 00000613      li      a2,0
101cc: 00000513      li      a0,0
101d0: 4390206f      j       12e08 <__register_exitproc>

0000000000101d4 <exit>:
101d4: ff010113      addi    sp,sp,-16
101d8: 00000593      li      a1,0
101dc: 00813023      sd      s0,0(sp)
101e0: 00113423      sd      ra,8(sp)
101e4: 00050413      mv      s0,a0
101e8: 4cd020ef      jal     ra,12eb4 <__call_exitprocs>
101ec: 74818793      addi    a5,gp,1864 # 23150 <global_impure_ptr>
101f0: 0007b503      ld      a0,0(a5)
101f4: 05853783      ld      a5,88(a0)
101f8: 00078463      beqz    a5,10200 <exit+0x2c>
101fc: 000780e7      jalr    a5
10200: 00040513      mv      a0,s0
10204: 7410e0ef      jal     ra,1f144 <_exit>

000000000010208 <__libc_fini_array>:
10208: fe010113      addi    sp,sp,-32
1020c: 00813823      sd      s0,16(sp)
10210: 00012797      auipc   a5,0x12
10214: e1078793      addi    a5,a5,-496 # 22020 <__fini_array_end>
:

```

Mouse integration ...

Auto capture keyboard ...

```
0000000000100b0 <main>:
100b0: 00001637      lui    a2,0x1
100b4: 00021537      lui    a0,0x21
100b8: ff010113      addi   sp,sp,-16
100bc: 3ba60613      addi   a2,a2,954 # 13ba <main-0xecf6>
100c0: 06400593      li     a1,100
100c4: 18050513      addi   a0,a0,384 # 21180 <__clzdi2+0x44>
100c8: 00113423      sd     ra,8(sp)
100cc: 340000ef      jal    ra,1040c <printf>
100d0: 00813083      ld     ra,8(sp)
100d4: 00000513      li     a0,0
100d8: 10101013      addi   sp,sp,16
100dc: 00008067      ret

0000000000100e0 <register_fini>:
100e0: ffff0797      auipc  a5,0xffff0
100e4: f2078793      addi   a5,a5,-224 # 0 <main-0x100b0>
100e8: 00078863      beqz   a5,100f8 <register_fini+0x18>
100ec: 00000517      auipc  a0,0x0
100f0: 11050513      addi   a0,a0,272 # 101fc <__libc_fini_array>
100f4: 0c00006f      j      101b4 <atexit>
100f8: 00008067      ret

0000000000100fc <_start>:
100fc: 00013197      auipc  gp,0x13
10100: 90c18193      addi   gp,gp,-1780 # 22a08 <__global_pointer$>
10104: 77018513      addi   a0,gp,1904 # 23178 <_edata>
10108: 00013617      auipc  a2,0x13
1010c: 10060613      addi   a2,a2,256 # 23208 <__BSS_END__>
10110: 40a60633      sub    a2,a2,a0
10114: 00000593      li     a1,0
10118: 1d4000ef      jal    ra,102ec <memset>
1011c: 00000517      auipc  a0,0x0
10120: 0e050513      addi   a0,a0,224 # 101fc <__libc_fini_array>
10124: 090000ef      jal    ra,101b4 <atexit>
10128: 130000ef      jal    ra,10258 <__libc_init_array>
1012c: 00012503      lw     a0,0(sp)
10130: 00810593      addi   a1,sp,8
10134: 00000613      li     a2,0
10138: f79ff0ef      jal    ra,100b0 <main>
1013c: 08c0006f      j      101c8 <exit>

000000000010140 <__do_global_dtors_aux>:
10140: 7981c783      lbu    a5,1944(gp) # 231a0 <completed.5468>
10144: 04079463      bnez   a5,1018c <__do_global_dtors_aux+0x4c>
10148: ffff0797      auipc  a5,0xffff0
```

Mouse integration ...

Auto capture keyboard ...



```
vswdworkshop [Running] - Oracle VirtualBox
File Machine View Input Devices Help

Activities Terminal v Tue 23:58
vsduser@vsduser-VirtualBox: ~
vsduser@vsduser-VirtualB

0000000000100b0 <main>:
100b0: 00001637 lui a2,0x1
100b4: 00021537 lui a0,0x21
100b8: ff010113 addi sp,sp,-16
100bc: 3ba60613 addi a2,a2,954 # 13ba <main-0xecf6>
100c0: 06400593 li a1,100
100c4: 18050513 addi a0,a0,384 # 21180 <__clzdi2+0x44>
100c8: 00113423 sd ra,8(sp)
100cc: 340000ef jal ra,1040c <printf>
100d0: 00813083 ld ra,8(sp)
100d4: 00000513 li a0,0
100d8: 01010113 addi sp,sp,16
100dc: 00008067 ret

0000000000100e0 <register_fini>:
100e0: ffff0797 auipc a5,0xffff0
100e4: f2078793 addi a5,a5,-224 # 0 <main-0x100b0>
100e8: 00078863 beqz a5,100f8 <register_fini+0x18>
100ec: 00000517 auipc a0,0x0
100f0: 11050513 addi a0,a0,272 # 101fc <__libc_fini_array>
100f4: 0c00006f j 101b4 <atexit>
100f8: 00008067 ret

0000000000100fc <_start>:
100fc: 00013197 auipc gp,0x13
10100: 90c18193 addi gp,gp,-1780 # 22a08 <__global_pointer$>
10104: 77018513 addi a0,gp,1904 # 23178 <_edata>
10108: 00013617 auipc a2,0x13
1010c: 10060613 addi a2,a2,256 # 23208 <__BSS_END__>
10110: 40a60633 sub a2,a2,a0
10114: 00000593 li a1,0
10118: 1d4000ef jal ra,102ec <memset>
1011c: 00000517 auipc a0,0x0
10120: 0e050513 addi a0,a0,224 # 101fc <__libc_fini_array>
10124: 090000ef jal ra,101b4 <atexit>
10128: 130000ef jal ra,10258 <__libc_init_array>
1012c: 00012503 lw a0,0(sp)
10130: 00810593 addi a1,sp,8
10134: 00000613 li a2,0
10138: f79ff0ef jal ra,100b0 <main>
1013c: 08c0006f j 101c8 <exit>

000000000010140 <__do_global_dtors_aux>:
10140: 7981c783 lbu a5,1944(gp) # 231a0 <completed.5468>
10144: 04079463 bnez a5,1018c <__do_global_dtors_aux+0x4c>
10148: ffff0797 auipc a5,0xffff0
```

Calculator

Programmer

30 ÷ 4 = C

HEX C  
DEC 12  
OCT 14  
BIN 1100

QWORD MS Mv

Bitwise Bit shift

A	<<	>>	CE	⊞
B	(	)	%	÷
C	7	8	9	×
D	4	5	6	-
E	1	2	3	+
F	+/-	0	.	=

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