Oracle VirtualBox Manager

File   Machine   Help

Tools

vsdworkshop
Running

vsdworkshop [Running] - Oracle VirtualBox

File   Machine   View   Input   Devices   Help

Activities   Mon 09:10

Trash

Mouse integration ...

Auto capture keyboard ...

Software Updater

Updated software is available for this computer. Do you want to
install it now?

▶ Details of updates

285.0 MB will be downloaded.

It's safer to connect the computer to AC power before updating.

Settings...   Remind Me Later

Right Ctrl

Type here to search   16°C Clear   ENG   09:10
                                                                    06-01-2025

```
1050c:    00053783          ld      a5,0(a0)
10510:    00078513          mv      a0,a5
10514:    04f13c23          sd      a5,88(sp)
10518:    68c080ef          jal     ra,18ba4 <strlen>
1051c:    04a13423          sd      a0,72(sp)
10520:    10013023          sd      zero,256(sp)
10524:    10013423          sd      zero,264(sp)
10528:    00040663          beqz    s0,10534 <_vfprintf_r+0x78>
1052c:    05042783          lw      a5,80(s0)
10530:    54078ee3          beqz    a5,1128c <_vfprintf_r+0xdd0>
10534:    00013703          ld      a4,0(sp)
10538:    01071683          lh      a3,16(a4)
1053c:    03069793          slli    a5,a3,0x30
10540:    0307d793          srli    a5,a5,0x30
10544:    03279613          slli    a2,a5,0x32
10548:    02064663          bltz    a2,10574 <_vfprintf_r+0xb8>
1054c:    0ac72603          lw      a2,172(a4)
10550:    000027b7          lui     a5,0x2
10554:    00f6e7b3          or      a5,a3,a5
10558:    ffffe6b7          lui     a3,0xffffe
1055c:    fff68693          addi    a3,a3,-1 # fffffffffffffdfff <__BSS_END__+0xfffffffffffffdadf7>
10560:    00d676b3          and     a3,a2,a3
10564:    00f71823          sh      a5,16(a4)
10568:    03079793          slli    a5,a5,0x30
1056c:    0ad72623          sw      a3,172(a4)
10570:    0307d793          srli    a5,a5,0x30
10574:    0087f693          andi    a3,a5,8
10578:    14068463          beqz    a3,106c0 <_vfprintf_r+0x204>
1057c:    00013703          ld      a4,0(sp)
```

```
vsduser@vsduser-VirtualBox:~$ cat sum1ton.c
#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, sum);
return 0;
}
vsduser@vsduser-VirtualBox:~$ riscv64-unknown-elf-gcc -01 -mabi=lp64 march=rv64i -o sum1ton.o sum1ton.c
riscv64-unknown-elf-gcc: error: march=rv64i: No such file or directory
riscv64-unknown-elf-gcc: error: unrecognized command line option '-01'
vsduser@vsduser-VirtualBox:~$ riscv64-unknown-elf-gcc -01 -mabi=lp64 -march=rv64i -o sum1ton.o sum1ton.c
riscv64-unknown-elf-gcc: error: unrecognized command line option '-01'
vsduser@vsduser-VirtualBox:~$  riscv64-unknown-elf-gcc -o1 -mabi=lp64 -march=rv64i -o sum1ton.o sum1ton.c
vsduser@vsduser-VirtualBox:~$ ls -ltr sum1ton.o
-rwxrwxr-x 1 vsduser vsduser 167512 Jan  6 16:12 sum1ton.o
vsduser@vsduser-VirtualBox:~$  riscv64-unknown-elf-gcc -0fast -mabi=lp64 -march=rv64i -o sum1ton.o sum1ton.c
riscv64-unknown-elf-gcc: error: unrecognized command line option '-0fast'; did you mean '-Ofast'?
vsduser@vsduser-VirtualBox:~$ riscv64-unknown-elf-gcc -ofast -mabi=lp64 -march=rv64i -o sum1ton.o sum1ton.c
vsduser@vsduser-VirtualBox:~$
```

```
vsduser@vsduser-VirtualBox:~$ cd
vsduser@vsduser-VirtualBox:~$ gedit sum1ton.c
vsduser@vsduser-VirtualBox:~$ gcc sum1ton.c
vsduser@vsduser-VirtualBox:~$ ./a.out
Sum of numbers from 1 to 5 is 15vsduser@vsduser-VirtualBox:~$
```