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Activities Terminal Wed 15:00 vsduser@vsduser-VirtualBox: ~  
File Edit View Search Terminal Help  
Suggested packages:  
evince-gtk  
The following NEW packages will be installed:  
leafpad  
0 upgraded, 1 newly installed, 0 to remove and 55 not upgraded.  
Need to get 85.1 kB of archives.  
After this operation, 461 kB of additional disk space will be used.  
Get:1 http://ln.archive.ubuntu.com/ubuntu bionic/universe amd64 leafpad amd64 0.8.18.1-5 [85.1 kB]  
Fetched 85.1 kB in 2s (43.2 kB/s)  
Selecting previously unselected package leafpad.  
(Reading database ... 173523 files and directories currently installed.)  
Preparing to unpack .../leafpad_0.8.18.1-5_amd64.deb ...  
Unpacking leafpad (0.8.18.1-5) ...  
Setting up leafpad (0.8.18.1-5) ...  
Processing triggers for gnome-menus (3.13.3-11ubuntu1.1) ...  
Processing triggers for hicolor-icon-theme (0.17-2) ...  
Processing triggers for mime-support (3.60ubuntu1) ...  
Processing triggers for desktop-file-utils (0.23-1ubuntu3.18.04.2) ...  
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...  
vsduser@vsduser-VirtualBox:~$ leafpad sumiton.c 8  
[1] 19371  
vsduser@vsduser-VirtualBox:~$ Gtk-Message: 14:42:37.790: Failed to load module "canberra-gtk-module"  
[1]+ Done leafpad sumiton.c  
vsduser@vsduser-VirtualBox:~$ gcc sumiton.c  
vsduser@vsduser-VirtualBox:~$ ls -ltr  
total 64  
-rw-r--r-- 1 vsduser vsduser 8980 Sep 18 2023 examples.desktop  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Videos  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Templates  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Public  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Music  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Downloads  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Documents  
drwxr-xr-x 2 vsduser vsduser 4096 Sep 18 2023 Desktop  
drwxrwxr-x 8 vsduser vsduser 4096 Sep 18 2023 riscv_workshop_collaterals  
drwxr-xr-x 2 vsduser vsduser 4096 Jan 8 14:03 Pictures  
-rw-rw-r-- 1 vsduser vsduser 158 Jan 8 14:49 sumiton.c  
-rwxrwxr-x 1 vsduser vsduser 8304 Jan 8 14:51 a.out  
vsduser@vsduser-VirtualBox:~$ ./a.out  
The sum of numbers from 1 to 5 is 15  
vsduser@vsduser-VirtualBox:~$ gcc sumiton.c  
vsduser@vsduser-VirtualBox:~$ ./a.out  
vsduser@vsduser-VirtualBox:~$ cd home  
bash: cd: home: No such file or directory  
vsduser@vsduser-VirtualBox:~$ cd Home  
bash: cd: Home: No such file or directory  
vsduser@vsduser-VirtualBox:~$
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Activities Terminal Wed 15:23 vsduser@vsduser-VirtualBox: -
File Edit View Search Terminal Tabs Help

vsduser@vsduser-VirtualBox: -
vsduser@vsduser-VirtualBox: -

10170: 00012517 auipc a0,0x12
10171: e9050513 addi a0,a0,-368 # 22000 <__FRAME_END__>
10172: 00000317 auipc t1,0x0
1017c: 00000067 jr zero # 0 <register_flnl-0x100b6>
10180: 00000067 ret

0000000000010184 <main>:
10184: ff010113 addi sp,sp,-16
10188: 00113423 sd ra,8(sp)
1018c: 00f00613 li a2,15
10190: 00500593 li a1,5
10194: 00021537 lui a0,0x21
10198: 10050513 addi a0,a0,384 # 21188 <__clzdi2-0x48>
1019c: 26c000ef jal ra,10408 <printf>
101a0: 00000513 li a0,0
101a4: 00013003 ld ra,8(sp)
101a8: 01010113 addi sp,sp,16
101ac: 00000067 ret

00000000000101b0 <atexit>:
101b0: 00050593 mv a1,a0
101b4: 00000693 li a3,0
101b8: 00000613 li a2,0
101bc: 00000513 li a0,0
101c0: 439020ef j 12df8 <__register_exitproc>

00000000000101c4 <exit>:
101c4: ff010113 addi sp,sp,-16
101c8: 00000593 li a1,0
101cc: 00013023 sd s0,0(sp)
101d0: 00113423 sd ra,8(sp)
101d4: 00050413 mv s0,a0
101d8: 4cd020ef jal ra,12ee4 <__call_exitprocs>
101dc: 74010793 addi a5,gp,1064 # 23150 <global_inpure_ptr>
101e0: 0007b503 ld a0,0(a5)
101e4: 05053783 ld a5,00(a0)
101e8: 00070463 beqz a5,101f0 <exit+0x2c>
101ec: 000780e7 jalr a5
101f0: 00040513 mv a0,s0
101f4: 7410e0ef jal ra,1f134 <_exit>

00000000000101f8 <__libc_fini_array>:
101f8: fe010113 addi sp,sp,-32
101fc: 00013023 sd s0,16(sp)
10200: 00012797 auipc a5,0x12
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Activities Terminal Wed 15:50 vdsuser@vdsuser-VirtualBox: ~
File Edit View Search Terminal Tabs Help
vdsuser@vdsuser-VirtualBox: ~
vdsuser@vdsuser-VirtualBox: ~
vdsuser@vdsuser-VirtualBox: ~
sumiton.o: file format elf64-littlelscv

Disassembly of section .text:
0000000000100b0 <main>:
100b0: 00021537      lui      a0,0x21
100b4: ff010113      addi     sp,sp,-16
100b8: 00f00013      li      a2,15
100bc: 00500593      li      a1,5
100c0: 18050513      addi     a0,a0,384 # 21180 <__clzdl2+0x48>
100c4: 00113423      sd      ra,8(sp)
100c8: 340000ef      jal      ra,10408 <printf>
100cc: 00813083      ld      ra,8(sp)
100d0: 00000513      li      a0,0
100d4: 01010113      addi     sp,sp,16
100d8: 00000007      ret

0000000000100dc <register_fini>:
100dc: ffff0797      auiopc   a5,0xffff0
100e0: f2478793      addi     a5,a5,-220 # 0 <main-0x100b0>
100e4: 00075863      beqz     a5,100f4 <register_fini+0x18>
100e8: 00000517      auiopc   a0,0x0
100ec: 11050513      addi     a0,a0,272 # 101f8 <__libc_fini_array>
100f0: 0c00006f      j        101b0 <atexit>
100f4: 00000007      ret

0000000000100f8 <_start>:
100f8: 00013197      auiopc   gp,0x13
100fc: 91010193      addi     gp,gp,-1776 # 22a08 <__global_pointer$>
10100: 77010513      addi     a0,gp,1904 # 23178 <_edata>
10104: 00013617      auiopc   a2,0x13
10108: 10400613      addi     a2,a2,260 # 23200 <__BSS_END__>
1010c: 40a00633      sub      a2,a2,a0
10110: 00000593      li      a1,0
10114: 1d4000ef      jal      ra,102e8 <mempset>
10118: 00000517      auiopc   a0,0x0
1011c: 00050513      addi     a0,a0,224 # 101f8 <__libc_fini_array>
10120: 000000ef      jal      ra,101b0 <atexit>
10124: 1300000ef      jal      ra,10254 <__libc_init_array>
10128: 00012503      lw      a0,0(sp)
1012c: 00810593      addi     a1,sp,8
10130: 00000613      li      a2,0
10134: f7dff0ef      jal      ra,100b0 <main>
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```
Activities Terminal Wed 15:50 vsduser@vsduser-VirtualBox: ~
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vsduser@vsduser-VirtualBox: ~
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sumiton.o: file format elf64-littlelscv

Disassembly of section .text:

00000000000100b0 <main>:
100b0: 00021537      lut    a0,0x21
100b4: ff010113      addl   sp,sp,-16
100b8: 00f0e013      li     a2,15
100bc: 00500593      li     a1,5
100c0: 18050513      addl   a0,a0,384 # 21180 <__clzdl2+0x48>
100c4: 00113423      sd     ra,8(sp)
100c8: 340000ef      jal    ra,10400 <printf>
100cc: 00813083      ld     ra,8(sp)
100d0: 00000513      li     a0,0
100d4: 01010113      addl   sp,sp,16
100d8: 00000067      ret

00000000000100dc <register_fini>:
100dc: ffff0797      aulpc  a5,0xfffff0
100e0: f2478793      addl   a5,a5,-220 # 0 <main-0x100b0>
100e4: 00078803      beqz   a5,100fa <register_fini+0x18>
100e8: 00000517      aulpc  a0,0x0
100ec: 11050513      addl   a0,a0,272 # 101f8 <__ltbc_fini_array>
100f0: 0c00006f      j      101b0 <atexit>
100f4: 00000067      ret

00000000000100f8 <_start>:
100f8: 00013197      aulpc  gp,0x13
100fc: 91010193      addl   gp,gp,-1776 # 22a08 <__global_pointer$>
10100: 77010513      addl   a0,gp,1904 # 23178 <_edata>
10104: 00013617      aulpc  a2,0x13
10108: 10400613      addl   a2,a2,260 # 23200 <__BSS_END__>
1010c: 40a60633      sub    a2,a2,a0
10110: 00000593      li     a1,0
10114: 1d4000ef      jal    ra,102e8 <memset>
10118: 00000517      aulpc  a0,0x0
1011c: 00050513      addl   a0,a0,224 # 101f0 <__ltbc_fini_array>
10120: 090000ef      jal    ra,101b0 <atexit>
10124: 130000ef      jal    ra,10254 <__ltbc_init_array>
10128: 00012583      lw     a0,0(sp)
1012c: 00810593      addl   a1,sp,8
10130: 00000613      li     a2,0
10134: f7dff0ef      jal    ra,100b0 <main>
```