

```
Script started on 2020-10-11 00:55:48-04:00 [TERM="xterm-256color" TTY="/dev/pts/3" COLUMNS="115" LINES="48"]
\033[0;gurusaran@guru: ~/Desktop/OS/P0\007\033[1;34mgurusaran@guru\033[00m:\033[1;32m~/Desktop/OS/P0\033[00m$ gbd \033[K\033[K\033[K\033[Kdb ./P0
\033[35;1m\033[35;1mGNU gdb \033[m\033[35;1m(Debian 9.2-1) \033[m\033[35;1m9.2\033[m\033[35;1m
\033[m\033[mCopyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.
```

```
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from \033[32m./P0\033[m...
(gdb) break shell.C:108
Breakpoint 1 at \033[34m0x3257\033[m: file \033[32mshell.C\033[m, line 108.
(gdb) \033[Krun
Starting program: /home/gurusaran/Desktop/OS/P0/P0
The shell has only the following cmds:
    quit
    mkdisk
    fddisk
    rddisk  u
    wrdisk  us
    echo    ssss
    mkfs    uu
    findfs
    inode   u
    q
```

```
Start with ! to invoke a Unix shell cmd
sh350% mkdisk
cmd [mkdisk]
simDisk 55555556e8d0 = new SimDisk(D1, 124, 512)
mkSimDisk() == 1431759056
sh350% wrdisk name 1234
cmd [wrdisk name 1234]
arg #0 (name) must be a number.
sh350% wrdisk 123 name
cmd [wrdisk 123 name]
toNum 123toNum 123arg 123 123 123
```

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Breakpoint 1, \033[33mdoWriteDisk\033[m (\033[36ma\033[m=0x55555556e8f0) at \033[32mshell.C
\033[m:108
108      \033[01mprintf\033[m\033[31m(\033[m\033[31m"write4350disk(%d, %s...) == %d\033[m\033[
[35m\n\033[m\033[31m"\033[m\033[31m,\033[m a\033[31m\033[m\033[35m0\033[m\033[31m).\033[mu
\033[31m,\033[m st\033[31m,\033[m r\033[31m);\033[m
(gdb) p a[\033[C.u
$1 = 123
(gdb) d 1
(gdb) break shell.C:116
Breakpoint 2 at \033[34m0x555555572bc\033[m: file \033[32mshell.C\033[m, line 116.
(gdb) mkdisk
Undefined command: "mkdisk". Try "help".
(gdb) run
The program being debugged has been started already.
Start it from the beginning? (y or n) y
Starting program: /home/gurusaran/Desktop/OS/P0/P0
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```
quit
mkdisk
fddisk
rddisk    u
wrddisk   us
echo      ssss
mkfs      uu
findfs
inode     u
q
```

```
sh350% mkdisk
cmd [mkdisk]
simDisk 55555556e8d0 = new SimDisk(D1, 124, 512)
mkSimDisk() == 1431759056
sh350% rddisk^123^[[D
cmd [rddisk 123]
toNum 123toNum 123arg 123 123 123
```

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116      \033[01mprintf\033[m\033[31m(\033[m\033[31m"read4350disk(%d, %s...) == %d\033[m\033[35m\n\033[m\033[31m"\033[m\033[31m,\033[m a\033[31m[\033[m\033[35m0\033[m\033[31m]..\033[mu\033[31m,\033[m buf\033[31m,\033[m r\033[31m]);\033[m
```

```
(gdb) m033[K\007run
```

```
quit
mkdisk
fddisk
rddisk    u
wrddisk   us
echo      ssss
mkfs      uu
findfs
inode     u
q
```

```
cmd [echo my name is Guru]
```

```
128      \033[01mprintf\033[m\033[31m(\033[m\033[31m"%s#%d, %s#%d, %s#%d, %s#%d\033[m\033[35m
\n\033[m\033[31m"\033[m\033[31m,\033[m a\033[31m\033[m\033[35m0\033[m\033[31m]..\033[ms\033[31
m,\033[m a\033[31m\033[m\033[35m0\033[m\033[31m]..\033[mu\033[31m,\033[m
```

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(gdb) print a[3033][1P0\033[C\033[C\033[C\033[Ku
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$7 = 0
(gdb) d 3
(gdb) break dom\033[KMakedis\033[K\033[K\033[KDisk
Breakpoint 4 at \033[34m0x555555557186\033[m: file \033[32mshell.C\033[m, line 93.
(gdb) run
The program being debugged has been started already.
Start it from the beginning? (y or n) y
Starting program: /home/gurusaran/Desktop/OS/P0/P0
The shell has only the following cmds:
    quit
    mkdisk
    fddisk
    rddisk  u
    wrdisk  us
    echo    ssss
    mkfs    uu
    findfs
    inode   u
    q
Start with ! to invoke a Unix shell cmd
sh350% mkdisk
cmd [mkdisk]

Breakpoint 4, \033[33mdoMakeDisk\033[m (\033[36ma\033[m=0x55555556e6d0) at \033[32mshell.C\033[m:93
93      uint r \033[31m=\033[m \033[01mmkSimDisk\033[m\033[31m();\033[m
(gdb) n
simDisk 55555556e8d0 = new SimDisk(D1, 124, 512)
94      \033[01;34mif\033[m \033[31m(\033[mr \033[31m!=\033[m \033[35m0\033[m\033[31m)\033[m
(gdb) n
95      \033[01mreleaseCfv\033[m\033[31m();\033[m
(gdb) n
96      \033[01mprintf\033[m\033[31m(\033[m\033[31m"mkSimDisk() == %d\033[m\033[35m\n\033[m
\033[31m"\033[m\033[31m,\033[m r\033[31m);\033[m
(gdb) print r
$8 = 1431759056
(gdb) n
mkSimDisk() == 1431759056
97      \033[31m}\033[m
(gdb) d 4
(gdb) break si\033[Kmdis\033[K\033[K\033[KDisk.C:55
Breakpoint 5 at \033[34m0x555555555454\033[m: file \033[32msimDisk.C\033[m, line 58.
(gdb) run
The program being debugged has been started already.
Start it from the beginning? (y or n) y
Starting program: /home/gurusaran/Desktop/OS/P0/P0
The shell has only the following cmds:
    quit
    mkdisk
    fddisk
    rddisk  u
    wrdisk  us
    echo    ssss
    mkfs    uu
    findfs
    inode   u
    q
Start with ! to invoke a Unix shell cmd
sh350% mkdisk
cmd [mkdisk]

Breakpoint 5, \033[33mSimDisk::openDiskImage\033[m (\033[36mthis\033[m=0x55555556e8d0, \033[36mmode\033[m=0) at \033[32msimDisk.C\033[m:58

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58      \033[01msprintf\033[m\033[31m(\033[mtfnm\033[31m,\033[m \033[31m"%s.dsk"\033[m\033[31m,\033[m labelOfTheDisk\033[31m);\033[m
(gdb) orint\033[K\033[K\033[K\033[Kprint labelOfTheDisk
$9 = "D1", '\000' <repeats 13 times>
(gdb) d \033[K5
(gdb) run
The program being debugged has been started already.
Start it from the beginning? (y or n) \033[Ky
Starting program: /home/gurusaran/Desktop/OS/P0/P0
The shell has only the following cmds:
    quit
    mkdisk
    fddisk
    rddisk  u
    wrdisk  us
    echo    ssss
    mkfs    uu
    findfs
    inode   u
    q
Start with ! to invoke a Unix shell cmd
sh350% mkd$$$k
cmd [mkdisk]
simDisk 55555556e8d0 = new SimDisk(D1, 124, 512)
mkSimDisk() == 1431759056
sh350% wrdisk 10 name
cmd [wrdisk 10 name]
toNum 10toNum 10arg 10 10 10
write4350disk(10, name...) == 512
sh350% rddisk 10
cmd [rddisk 10]
toNum 10toNum 10arg 10 10 10
read4350disk(10, namenamena...) == 512
sh350% q
cmd [q]
[Inferior 1 (process 2253) exited normally]
(gdb) q
\033[0;gurusaran@guru: ~/Desktop/OS/P0\007\033[1;34mgurusaran@guru\033[00m:\033[1;32m~/Desktop
/OS/P0\033[00m$ exit

Script done on 2020-10-11 01:07:57-04:00 [COMMAND_EXIT_CODE="0"]
```