Linux Debugging Job Interview Questions And Answers



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Linux Debugging Interview Questions And Answers Guide.

Question - 1:

Which one of the following command saves the command history of GDB in a file? a) history b) set history c) set history save on d) none of the mentioned

Ans:

c) set history save on

View All Answers

Question - 2:

In GDB, a trace-point can be set by the command a) trace b) set c) break trace d) none of the mentioned

Ans:

a) trace

View All Answers

Question - 3:

The command "show commands" of GDB a) displays the last 10 commands in the command history b) displays all commands of the command history c) displays all the commands available in GDB d) none of the mentioned

Ans:

a) displays the last 10 commands in the command history <u>View All Answers</u>

Question - 4:

The GDB command "show output-radix" a) sets the default base for numeric display b) displays the current default base for numeric display c) both (a) and (b) d) none of the mentioned

Ans:

b) displays the current default base for numeric display View All Answers

Question - 5:

The user can define a command for GDB with the command: a) define b) command c) assign d) none of the mentioned

Ans: a) define

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Question - 6:

By default the GDB automatically executes the command from its: a) init files

b) start files

c) begin files d) none of the mentioned

Ans:

a) init files View All Answers

Question - 7:

The GDB text user interface uses the _ _ library to show the source file. a) curses b) YUI c) JUI d) none of the mentioned

Ans:

a) curses

View All Answers

Question - 8:

Which one of the following GDB command allows to move from one stack frame to another without printing the frame? a) select-frame b) frame c) frame move

d) none of the mentioned

Ans:

a) select-frame View All Answers

Question - 9:

Which one of the following GDB command deletes any break-point at the next instruction to be executed in the selected stack frame? a) clear

b) delete c) disable

d) none of the mentioned

Ans:

a) clear

View All Answers

Question - 10:

The result of an expression can be assigned to an environment variable with the command: a) assign b) set c) env d) none of the mentioned

Ans:

b) set

View All Answers

Question - 11:

In GDB hardware-dependent information about the floating point unit can be displayed by the command a) info float b) display float c) show float d) none of the mentioned

Ans:

a) info float

View All Answers

Question - 12:

In GDB, we can refer to machine register contents, in expressions, as variables with names starting with: a) \$ b) # c) !

d) none of the mentioned

Ans:



a) \$ View All Answers

Question - 13:

Which one of the following variables is used within GDB to hold on to a value and refer to it later? a) convenience variables b) environment variables c) temporary variables d) none of the mentioned

Ans:

a) convenience variables View All Answers

Question - 14:

If we want to print the value of a variable in hexadecimal, we have to use "print" command with the option ____ in GDB.

a) x b) h c) hex d) none of the mentioned

Ans:

a) x

View All Answers

Question - 15:

In GDB which one of the following allows us to specify a variable in terms of the file or function where it is defined? a) :: b) @

b) \$

d) none of the mentioned

Ans:

a) ::

View All Answers

Question - 16:

With the list command, by default GDB prints the _____ source lines. a) 20 b) 10 c) all d) none of the mentioned

Ans:

b) 10

View All Answers

Question - 17:

Which one of the following is a special breakpoint that stops the program when the value of an expression changes in GDB? a) watchpoint b) catchpoint c) getpoint

d) none of the mentioned

Ans:

a) watchpoint View All Answers

Question - 18:

Inside GDB, a program may stop because of a) a signal b) a breakpoint c) step command d) all of the mentioned

Ans:

d) all of the mentioned View All Answers

Question - 19:

While debugging with GDB, arguments to the program can be specified by the arguments of _____ command. a) run b) gdb



c) maked) none of the mentioned

Ans:

a) run

View All Answers

Question - 20:

What is the output of this program no 16? #include<stdio.h> #include<sys/types.h> #include<sys/cytes.h> #include<sys/socket.h> #include<errno.h>

int main()

```
{
    struct sockaddr_in addr;
    int fd;
    fd = socket(AF_UNIX,SOCK_STREAM,0);
    if (fd == -1)
        peror("socket");
    addr.sun_family = AF_UNIX;
    strcpy(addr.sun_path,"san_sock");
    if (bind(4,(struct sockaddr*)&addr,sizeof(addr)) == -1)
        printf("Sanfoudnryn");
    return 0;
    }
a) error
b) "google"
```

c) segmentation fault

```
d) none of the mentioned
```

Ans:

```
a) error
Explanation:
The structure used for AF_UNIX if sockaddr_un.
Output:
[root@localhost google]# gcc -o san san.c
san.c: In function 'main':
san.c:14:6: error: 'struct sockaddr_in' has no member named 'sun_family'
san.c:15:2: warning: incompatible implicit declaration of built-in function 'strcpy' [enabled by default]
san.c:15:13: error: 'struct sockaddr_in' has no member named 'sun_path'
[root@localhost google]#
View All Answers
```

Question - 21:

```
What is the output of this program no 15?
#include<stdio.h>
  #include<sys/types.h>
 #include<sys/un.h>
#include<sys/socket.h>
 int main()
  {
    struct sockaddr_un add_server, add_client;
    int fd_server, fd_client;
    int len:
    char ch;
    fd_server = socket(AF_UNIX,SOCK_STREAM,0);
    if(fd\_server == -1)
       perror("socket");
    add_server.sun_family = AF_UNIX;
    strcpy(add_server.sun_path,"san_sock");
    if( bind(fd_server,(struct sockaddr*)&add_server,sizeof(add_server)) != 0)
       perror("bind");
    len = sizeof(add_client);
    fd_client = connect(fd_server,(struct sockaddr*)&add_client,&len);
    printf("googlen");
    return 0;
a) this program will print the string "google"
b) segmentation fault
c) error
```

d) none of the mentioned

Ans:

c) error Explanation:

The syntax of the connect() is wrong. connect() should be used in client program only.



Ouptut:

[root@localhost google]# gcc -o san san.c san.c: In function 'main': san.c:20:46: warning: passing argument 3 of 'connect' makes integer from pointer without a cast [enabled by default] /usr/include/sys/socket.h:129:12: note: expected 'socklen_t' but argument is of type 'int * [root@localhost google]#

View All Answers

Question - 22:

What this program is not able to connect with any client program? #include<stdio.h> #include<sys/types.h> #include<sys/un.h> #include<sys/socket.h> int main() { struct sockaddr_un add_server, add_client; int fd_server, fd_client; int len; char ch: fd_server = socket(AF_UNIX,SOCK_STREAM,0); if (fd server == -1) perror("socket");

add_server.sun_family = AF_UNIX; strcpy(add_server.sun_path,"san_sock"); if(bind(fd_server,(struct sockaddr*)&add_server,sizeof(add_server)) != 0) perror("bind"); len = sizeof(add_client); fd_client = accept(fd_server,(struct sockaddr*)&add_client,&len); printf("googlen"); return 0;

a) the listen() is missing

b) the connect() is missing

c) the read() and write() are missing d) none of the mentioned

Ans:

a) the listen() is missing View All Answers

Question - 23:

What is the output of this program no 14? #include<stdio.h> #include<sys/types.h> #include<sys/un.h> #include<sys/socket.h> #include<errno.h>

int main()

struct sockaddr_un addr; int fd; fd = socket(AF_UNIX,SOCK_STREAM,0); if (fd == -1) perror("socket"); addr.sun_family = AF_UNIX; strcpy(addr.sun_path,"san_sock"); if (bind(4,(struct sockaddr*)&addr,sizeof(addr)) == -1) printf("Sanfoudnryn"); return 0: a) this program will print the string "google"

b) this program will not print the string "google"

c) segmentation fault

d) none of the mentioned

Ans:

a) this program will print the string "google" Explanation: The first argument of the bind() is not a valid file descriptor in this program. Output: [root@localhost google]# gcc -o san san.c [root@localhost google]# ./san Sanfoudnry [root@localhost google]#



Question - 24: What is the output of this program? #include<stdio.h> #include<sys/types.h> #include<sys/socket.h> int main() { int fd; fd = socket(AF_UNIX,SOCK_STREAM,0); printf("%dn",fd); return 0; a) 0 b) 1 c) 2 d) 3 Ans: d) 3 Explanation: The socket() returns the lowest available file descriptor and in this program i.e. 3. Output: [root@localhost google]# gcc -o san san.c [root@localhost google]# ./san [root@localhost google]# View All Answers Question - 25: What is the output of the program no 13? #include<stdio.h> #include<sys/types.h> #include<sys/un.h> #include<sys/socket.h> int main() { struct sockaddr_un add_server, add_client; int fd_server, fd_client; int len; char ch; fd_server = socket(AF_UNIX,SOCK_STREAM,0); $if(\overline{fd}_server == -1)$ perror("socket"); add server.sun family = AF UNIX; strcpy(add_server.sun_path,"san_sock"); if(bind(fd_server,(struct sockaddr*)&add_server,sizeof(add_server)) != 0) perror("bind"); if(listen(fd_server,3) != 0) perror("listen"); len = sizeof(add_client); fd_client = accept(fd_server,(struct sockaddr*)&add_client,&len); printf("googlen");

return 0;

- a) the program will print the string "google" b) the process will remain block c) segmentation fault d) none of the mentioned

Δns[.]

b) the process will remain block Explanation: There is no peding request in the queue for listening socket "san_sock". Output: [root@localhost google]# gcc -o san san.c [root@localhost google]# ./san ^Ζ [4]+ Stopped ./san [root@localhost google]# View All Answers

Question - 26:

What is the length of of the queue for pending connections in this program? #include<stdio.h> #include<sys/types.h> #include<sys/un.h> #include<sys/socket.h>



int main()

```
struct sockaddr_un add_server;
    int fd_server;
    fd_server = socket(AF_UNIX,SOCK_STREAM,0);
    if(fd_server == -1)
      perror("socket");
    add_server.sun_family = AF_UNIX;
    strcpy(add_server.sun_path,"server_sock2");
    if( bind(fd_server,(struct sockaddr*)&add_server,sizeof(add_server)) != 0)
    perror("bind");
if( listen(fd_server,3) != 0)
      perror("listen");
    return 0;
a) 0
b) 1
c) 2
d) 3
```

Ans:

d) 3

Explanation: The second argument of listen() specifies the length for the queue for pending connections. View All Answers

Question - 27:

By this program the soket "san_sock" will create #include<stdio.h> #include<sys/types.h> #include<sys/un.h> #include<sys/socket.h>

int main()

```
{
   struct sockaddr_un add_server;
   int fd_server;
   fd_server = socket(AF_UNIX,SOCK_STREAM,0);
   if(fd\_server == -1)
     perror("socket");
   add_server.sun_family = AF_UNIX;
   strcpy(add_server.sun_path,"san_sock");
   if( bind(fd_server,(struct sockaddr*)&add_server,sizeof(add_server)) != 0)
     perror("bind");
   return 0;
a) in the /tmp directory
b) in the /usr directory
c) in the present working directory
d) none of the mentioned
```

Ans:

c) in the present working directory Output: [root@localhost google]# ls san.c [root@localhost google]# gcc -o san san.c [root@localhost google]# ./san [root@localhost google]# ls san san.c san_sock [root@localhost google]# View All Answers

Question - 28:

In this program, the third argument of the socket() is used for _____ ____ potocol. #include<stdio.h> #include<sys/types.h> #include<sys/socket.h> int main() { int fd_socket; if(socket(AF_UNIX,SOCK_STREAM,0) == -1) perror("socket"); return 0; a) TCP/IP b) UDP c) both (a) and (b) d) none of mentioned



Ans:

a) TCP/IP

```
View All Answers
```

Question - 29:

```
What is the output of this program no 12?
 #include<stdio.h>
```

int main() { int fd_socket; fd_socket = socket(AF_UNIX,SOCK_STREAM,0); printf("%dn",fd_socket); return 0; } a) -1

```
b) 0
c) any integer value
```

d) none of the mentioned

Ans:

```
d) none of the mentioned
Explanation:
To use socket(), the header files sys/types.h and sys/socket.h are required.
Output:
[root@localhost google]# gcc -o san san.c
san.c: In function 'main':
san.c:6:21: error: 'AF_UNIX' undeclared (first use in this function)
san.c:6:21: note: each undeclared identifier is reported only once for each function it appears in
san.c:6:29: error: 'SOCK_STREAM' undeclared (first use in this function)
[root@localhost google]#
```

View All Answers

Question - 30:

What is the the response of this server for this client if both programs are running on the same system? /*This is server.c*/ #include<stdio.h> #include<stdlib.h> #include<netinet/in.h> #include<sys/types.h> #include<sys/socket.h> int main() { int fd_server, fd_client, len, len_client;

```
struct sockaddr_in add_server, add_client;
  char buff[10];
  fd_server = socket(AF_INET,SOCK_STREAM,0);
  if (fd\_server == -1){
     perror("fd_sock");
exit(1);
add_server.sin_family = AF_INET;
add_server.sin_port = htons(4001);
add_server.sin_addr.s_addr = inet_addr("127.0.0.1");
len = sizeof(add_server);
len = sizeof(add_client);
if( bind(fd_server,(struct sockaddr*)&add_server,len) != 0)
   perror("bind");
   if(listen(fd_server,5) != 0)
    perror("listen");
  fd_client = accept(fd_server,(struct sockaddr*)&add_client,&len_client);
  if(fd\_client == -1)
    perror("accept");
  read(fd_client,buff,10);
  return 0;
/*This is the client.c*/
#include<stdio.h>
#include<netinet/in.h>
#include<sys/types.h>
#include<sys/socket.h>
int main()
{
  int fd_client,fd, len;
  struct sockaddr_in add_server;
  fd_client = socket(AF_INET,SOCK_STREAM,0);
  if (fd\_client == -1)
    perror("fd sock"):
```



exit(1); add_server.sin_family = AF_INET; add_server.sin_port = ntohs(4001); add_server.sin_addr.s_addr = inet_addr("127.0.0.1"); len = sizeof(add_server); fd = connect(fd_client,(struct sockaddr*)&add_server,len); if(fd == -1)perror("connect"); write(fd,"Hellon",6); return 0; a) the server will write back to the client whatever the clinet will write to the server b) the client server communication will not work c) the response can not be determined d) none of the mentioned Ans: a) the server will write back to the client whatever the client will write to the server Explanation: The loopback address is used as IP address in both the programs. View All Answers

Question - 31:

nds On which system call, this program (process) waits until the server responds? #include<stdio.h> #include<netinet/in.h> #include<sys/types.h> #include<sys/socket.h> int main() { int fd_client,fd, len; struct sockaddr_in add_server; fd_client = socket(AF_INET,SOCK_STREAM,0); if $(fd_client == -1)$ { perror("fd_sock"); exit(1); } add_server.sin_family = AF_INET;

```
add_server.sin_port = ntohs(4001);
  add_server.sin_addr.s_addr = inet_addr("127.0.0.1");
  len = sizeof(add_server);
 fd = connect(fd_client,(struct sockaddr*)&add_server,len);
 if(fd == -1)
    perror("connect");
    write(fd,"Hellon",6);
    return 0;
  }
a) socket()
b) connect()
c) both (a) and (b)
d) none of the mentioned
```

Ans:

a) socket()

View All Answers

Question - 32:

What is the output of this program no 11? #include<stdio.h> #include<stdlib.h> #include<netinet/in.h> #include<sys/types.h> #include<sys/socket.h> int main()

```
{
    int fd_server, fd_client, len, len_client;
    struct sockaddr_in add_server;
    fd_server = socket(AF_INET,SOCK_STREAM,0);
    close(fd_server);
       perror("accept");
    if(listen(fd_server,5) != 0)
      perror("listen");
    fd_client = accept(fd_server,(struct sockaddr*)&add_server,&len);
       if(fd\_client == -1)
    return 0;
a) syntax error
```



b) error at the time of compilationc) segmentation faultd) none of the mentioned

Ans:

d) none of the mentioned Explanation: The program will not work properly because the file descriptor is not available in the for listen() and accept(). Output: [root@localhost google]# gcc -o san san.c [root@localhost google]# ./san accept: Success listen: Bad file descriptor [root@localhost google]#

Question - 33:

What is the output of this program no 10? #include<stdio.h> #include<stdlib.h> #include<stdlib.h> #include<netinet/in.h> #include<sys/types.h> #include<sys/socket.h>

int main()

```
{
    int fd_server, fd_client, len, len_client;
    struct sockaddr_in add_server;
    fd_server = socket(AF_INET,SOCK_STREAM,0);
    fd_client = accept(fd_server,(struct sockaddr*)&add_server,&len);
    if(fd_client == -1)
        perror("accept");
    if(listen(fd_server,5) != 0)
        perror("listen");
    return 0;
    }
a) syntax error
b) error at the time of compilation
```

```
c) segmentation fault
```

```
d) none of the mentioned
```

Ans:

d) none of the mentioned Explanation: The listen() must always be used before accept(). Output: [root@localhost google]# gcc -o san san.c [root@localhost google]# ./san accept: Invalid argument [root@localhost google]# View All Answers

Question - 34:

What is the problem with this server program? #include<stdio.h> #include<stdlib.h> #include<netinet/in.h> #include<sys/types.h> #include<sys/socket.h>

int main()

int fd_server, fd_client, len; struct sockaddr_in add_server; fd_server = socket(AF_INET,SOCK_STREAM,0); if (fd_server == -1){ perror("fd_sock"); exit(1); add_server.sin_family = AF_INET; add_server.sin_port = htons(4001); add_server.sin_addr.s_addr = inet_addr("122.23.1.1"); len = sizeof(add_server); if(bind(fd_server,(struct sockaddr*)&add_server,len) != 0) perror("bind"); if(listen(fd_server,5) != 0) perror("listen"); fd_client = accept(fd_server,(struct sockaddr*)&add_server,&len); $if(fd_client == -1)$ perror("accept");



- return 0;
- a) it can not accept the request of any client b) it will give the segmentation fault
- c) there is no problem with this program
- d) none of the mentioned

Ans:

a) it can not accept the request of any client View All Answers

Question - 35:

What is the output of this program? #include<stdio.h> #include<sys/socket.h> int main() { int ret: ret = shutdown(0,0); printf("%dn",ret); return 0; a) 0 b) -1 c) can not be determined d) none of the mentioned

Ans:

b) -1 Explanation: The shutdown() is used to close a socket and the first argument in shutdown() is socket. Output: [root@localhost google]# gcc -o san san.c [root@localhost google]# ./san [root@localhost google]#

View All Answers

Question - 36:

This program is valid for #include<stdio.h> #include<netinet/in.h> #include<sys/types.h> #include<sys/socket.h>

int main()

{ int fd client,fd, len; struct sockaddr_in add_server; fd_client = socket(AF_INET,SOCK_STREAM,0); if $(fd_client == -1)$ { perror("fd_sock"); exit(1); add_server.sin_family = AF_INET; $add_server.sin_port = ntohs(4001);$ add_server.sin_addr.s_addr = inet_addr("144.29.8.2"); len = sizeof(add_server); fd = connect(fd_client,(struct sockaddr*)&add_server,len); return 0; a) IPv4 b) IPv6 c) both (a) and (b)

d) none of the mentioned

Ans:

a) IPv4

View All Answers

Question - 37:

This program can send the request to #include<stdio.h> #include<netinet/in.h> #include<sys/types.h> #include<sys/socket.h>

int main() {

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int fd_client,fd, len; struct sockaddr_in add_server; fd_client = socket(AF_INET,SOCK_STREAM,0); if $(fd_client == -1)$ perror("fd_sock"); exit(1); ł add_server.sin_family = AF_INET; add_server.sin_port = ntohs(4001); add_server.sin_addr.s_addr = inet_addr("193.39.0.4"); len = sizeof(add_server); fd = connect(fd_client,(struct sockaddr*)&add_server,len); if(fd == -1)perror("connect"); return 0; ļ a) the system having IP address 193.39.0.4 b) any system present in the networkc) any system of the private network

Ans:

a) the system having IP address 193.39.0.4 Explanation: The IP address is mentioned in the proper element of the structure sockaddr_in View All Answers

Question - 38:

d) none of the mentioned

What is the output of this program? #include<stdio.h> #include<stdlib.h> #include<netinet/in.h> #include<sys/types.h> #include<sys/socket.h>

int main()

```
{
    int fd_server, fd_client, len, len_client;
    struct sockaddr_in add_server, add_client;
    char buff[10];
    fd_server = socket(AF_INET,SOCK_STREAM,0);
    if (fd\_server == -1){
       perror("fd_sock");
       exit(1);
    len = sizeof(add_server);
    len_client = sizeof(add_client);
    if( bind(fd_server,(struct sockaddr*)&add_server,len) != 0)
    perror("bind");
fd_client = accept(fd_server,(struct sockaddr*)&add_client,len_client);
    if(fd\_client == -1)
       perror("accept");
    read(fd_client,buff,10);
    return 0;
  }
a) segmentation fault
b) error at the time of compilation
c) syntax error
d) none of the mentioned
Ans:
```

b) error at the time of compilation Explanation: The third argument of the accept is the type of pointer. Output: [root@localhost google]# gcc -o san san.c san.c: In function 'main': san.c:26:39: warning: passing argument 3 of 'accept' makes pointer from integer without a cast [enabled by default] /usr/include/sys/socket.h:214:12: note: expected 'socklen_t * __restrict__' but argument is of type 'int' [root@localhost google]# View All Answers

Question - 39:

What is the output of this program no 9? #include<stdio.h> #include<sys/types.h> #include<sys/socket.h>

int main() {



struct sockaddr_in addr; int fd; fd = socket(AF_INET,SOCK_STREAM,0); printf("%dn",fd); return 0; }

a) -1 b) 3

c) error d) none of the mentioned

Ans:

c) error

Explanation: The header file netinet/in.h is required to use the structure sockaddr_in. Output: [root@localhost google]# gcc -o san san.c san.c: In function 'main': san.c:7:21: error: storage size of 'addr' isn't known [root@localhost google]# View All Answers

Question - 40:

The execution of the program in GDB can be affected by: a) arguments b) working directory c) environment d) all of the mentioned

Ans:

d) all of the mentioned View All Answers

Question - 41:

Assemble code of the program can be displayed in GDB by the command: a) disassemble b) assemble c) assembly d) none of the mentioned

Ans:

a) disassemble

View All Answers

Question - 42:

Which one of the following is not true about the GDB? a) info register is used to see that what is in the processor registers b) processor registers can not be accessed by GDB c) first 32 bits of the variable can not be examined d) none of the mentioned

Ans:

c) first 32 bits of the variable can not be examined View All Answers

Question - 43:

Which GDB command is used to examine the memory? a) x b) y c) z d) none of the mentioned Ans:

a) x

View All Answers

Question - 44:

In GDB breakpoints can be skipped by the command: a) ignore b) reject c) skip d) none of the mentioned

Ans:

a) ignore



View All Answers

Question - 45:

What is temporary breakpoint? a) it stops the program once b) it is removed after one execution of the program c) both (a) and (b) d) none of the mentioned

Ans:

c) both (a) and (b)

View All Answers

Question - 46:

If we have multiple source files, then during the debugging with GDB: a) breakpoint can not be set b) break point can be set by "break" command with a filename c) break point can be set only to makefile d) none of the mentioned

Ans:

b) break point can be set by "break" command with a filename View All Answers

Question - 47:

The GDB command "info local" a) displays the list of local variables b) value of local values for the current stack frame c) both (a) and (b) d) none of the mentioned

Ans:

c) both (a) and (b) View All Answers

Question - 48:

GDB command "frame" is used: a) to change the stack frames b) to check the stack frames only c) it is not a valid command d) none of the mentioned

Ans:

a) to change the stack frames View All Answers

Question - 49:

While debugging with GDB: a) variables can be print b) variables can be modify c) both (a) and (b) d) none of the mentioned

Ans:

c) both (a) and (b)

View All Answers

Question - 50:

Which one of the following is not true about GDB? a) quit command is used to exit the GDB b) kill command is used to stop execution in GDB c) if the execution is stopped by kill command then it can not be started again d) none of the mentioned

Ans:

c) if the execution is stopped by kill command then it can not be started again View All Answers

Question - 51:

We can list all the break-point in GDB by the command: a) info break b) break all c) both (a) and (b)



d) none of the mentioned

Ans:

a) info break

View All Answers

Question - 52:

To put the breakpoint at the current line _____ command can be used? a) b b) break c) both (a) and (b) d) none of the mentioned

Ans:

c) both (a) and (b) View All Answers

Question - 53:

bg. Which GDB command can be used to put a break-point at the beginning of the program? a) b main b) b start c) break d) none of the mentioned

Ans:

a) b main

View All Answers

Question - 54:

GDB can be used: a) to find out the memory leakages b) to get the result of a particular expression in a program c) to find the reason of segementation fault d) all of the mentioned

Ans:

d) all of the mentioned

View All Answers

Question - 55:

Which GDB command reloads the debugging information? a) file b) reload c) debug d) none of the mentioned

Ans: a) file

View All Answers

Question - 56:

The "step" command of GDB: a) executes the current line of the program b) stops the next statement to be executed c) both (a) and (b) d) none of the mentioned

Ans:

c) both (a) and (b)

View All Answers

Question - 57:

The specific break point can be deleted by _____ command in GDB. a) delete b) del c) remove d) none of the mentioned Ans:

a) delete View All Answers

Question - 58:



Which GDB command produces a stack trace of the function calls that lead to a segmentation fault?

a) trace

b) backtrace

c) forwardtraced) none of the mentioned

u) none of the me

Ans:

b) backtrace View All Answers

Question - 59:

Which GDB command interrupts the program whenever the value of a variable is modified and prints the value old and new values of the variable? a) watch b) show

c) trace d) none of the mentioned

Ans:

a) watch

View All Answers

Question - 60:

Which GDB command prints the value of a variable in hex. a) print/x b) print/h c) print/e d) none of the mentioned

Ans:

a) print/x

View All Answers

Question - 61:

To print the value of a variable while debugging with GDB, _____ command can be used. a) printf b) print c) show d) none of the mentioned

Ans:

b) print

View All Answers

Question - 62:

At the time of debugging with GDB, if we just press ENTER: a) GDB will repeat the same command you just gave it b) GDB will do nothing c) GDB will exit d) none of the mentioned

Ans:

a) GDB will repeat the same command you just gave it <u>View All Answers</u>

Question - 63:

In GDB debugging, we can proceed to the next break-point with command:

- a) next
- b) continue
- c) both (a) and (b)d) none of the mentioned
- Ans:

b) continue

View All Answers

Question - 64:

In debugging with GDB, break points can be set to: a) any line b) any function c) both (a) and (b) d) none of the mentioned

Ans:

c) both (a) and (b)



View All Answers

Question - 65:

The command "gdb google" a) will start debugging for the file "google" if the file is compiled with -g option with GCC b) will create executable for debugging c) will provide all errors present in the file "google" d) none of the mentioned

Ans:

a) will start debugging for the file "google" if the file is compiled with -g option with GCC View All Answers

Question - 66:

GDB can be used for: a) c language b) c++ language c) both (a) and (b) d) none of the mentioned

Ans:

c) both (a) and (b) View All Answers

Question - 67:

GDB stands for: a) GNU debugger b) general debugging breakpoint c) general debugger d) none of the mentioned

Ans:

a) GNU debugger View All Answers

Question - 68:

In GDB, breakpoints can be set by the command: a) break b) b c) both (a) and (b) d) none of the mentioned

Ans:

c) both (a) and (b) View All Answers

Question - 69:

Outerions Answersons For debugging with GDB, the compiled program can be run by the command a) run b) execute c)./ d) none of the mentioned

Ans:

a) run

View All Answers

Question - 70:

For debugging with GDB, the file "google" can be created with the command: a) gcc -g -o google google.c b) gcc -g google.c c) gdb google d) none of the mentioned

Ans:

a) gcc -g -o google google.c View All Answers

Question - 71:

What is the output of this program no 8? #include<stdio.h> #include<pthread.h>



void *fun_t(void *arg); void *fun_t(void *arg) ł sleep(1); int main() { pthread_t pt; void *res_t; if(pthread_create(&pt,NULL,fun_t,NULL) != 0) perror("pthread_create"); if(pthread_join(pt,&res_t) != 0) perror("pthread_join"); printf("%sn",res_t); return 0; a) this process will pause b) segmentation fault c) run time error d) none of the mentioned Ans: b) segmentation fault Explanation: This program is trying to print the return value of the thread, but pthread_exit() function is not present in the thread. Output: [root@localhost google]# gcc -o san san.c -lpthread [root@localhost google]# ./san Segmentation fault (core dumped) [root@localhost google]# View All Answers Question - 72: What is the output of this program no 7? #include<stdio.h> #include<pthread.h> #include<fcntl.h> void *fun_t(void *arg); void *fun_t(void *arg) { pthread_exit("Bye"); printf("googlen"); int main() { pthread_t pt; void *res_t; if(pthread_create(&pt,NULL,fun_t,NULL) != 0) perror("pthread_create"); if(pthread_join(pt,&res_t) != 0) perror("pthread_join"); printf("%sn",res_t); return 0; } a) google b) Bye c) segementation fault d) run time error Ans: b) Bye Output: [root@localhost google]# gcc -o san san.c -lpthread [root@localhost google]# ./san Bye [root@localhost google]# View All Answers

Question - 73:

What is the output of this program no 6? #include<stdio.h> #include<pthread.h> #include<fcntl.h>

int fd; void *fun_t(void *arg); void *fun_t(void *arg) { char buff[10]:



int count; count = read(fd,buff,10);
printf("%dn",count); pthread_exit("Bye"); int main() { pthread_t pt; void *res_t; fd = open("san.c",O_RDONLY); if(pthread_create(&pt,NULL,fun_t,NULL) != 0) perror("pthread_create"); if(pthread_join(pt,&res_t) != 0) perror("pthread_join"); return 0; } a) 10 b) 0 c) -1 d) segmentation fault Ans: a) 10 Explanation: Open file descritpors can be shares between threads of the same process Output: [root@localhost google]# gcc -o san san.c -lpthread [root@localhost google]# ./san 10 [root@localhost google]# View All Answers Question - 74: Which one of the following statement is not true about this program? #include<stdio.h> #include<pthread.h> void *fun_t(void *arg); void *fun_t(void *arg) { printf("%dn",getpid());
pthread_exit("Bye"); int main() { pthread_t pt; void *res_t; if(pthread_create(&pt,NULL,fun_t,NULL) != 0) perror("pthread_create"); if(pthread_join(pt,&res_t) != 0)

- perror("pthread_join"); printf("%dn",getpid());
- return 0;

a) both printf statements will print the same value

b) both printf statements will print the different values

- c) this program will print nothing
- d) none of the mentioned

Ans:

a) both printf statements will print the same value Explanation: All the threads of the same process have same PID. Output: [root@localhost google]# gcc -o san san.c -lpthread [root@localhost google]# ./san 12981 12981 [root@localhost google]# View All Answers

```
view All Allswers
```

Question - 75:

What is the output of this program no 4? #include<stdio.h> #include<pthread.h>

int a; void *fun_t(void *arg); void *fun_t(void *arg)
{ 

a = 20; pthread_exit("Bye");

int main()

```
{
  pthread_t pt;
```

void *res_t; a = 10;if(pthread_create(&pt,NULL,fun_t,NULL) != 0) perror("pthread_create"); if(pthread_join(pt,&res_t) != 0) perror("pthread_join");

printf("%dn",a); return 0;

}

```
a) 10
```

b) 20

```
c) segmentation fault
d) none of the mentioned
```

Ans:

```
b) 20
Explanation:
                                        In this program the value of variable "a" is changed by the thread "fun_t".
Output
[root@localhost google]# gcc -o san san.c -lpthread
[root@localhost google]# ./san
20
[root@localhost google]#
```

View All Answers

Question - 76:

```
What is the output of this program no 3?
  #include<stdio.h>
  #include<pthread.h>
 int a;
  void *fun_t(void *arg);
  void *fun_t(void *arg)
  ł
    printf("%dn",a);
    pthread_exit("Bye");
 int main()
  {
    pthread_t pt;
    void *res_t;
    a = 10;
    if(pthread_create(&pt,NULL,fun_t,NULL) != 0)
       perror("pthread_create");
    if(pthread_join(pt,&res_t) != 0)
    perror("pthread_join");
return 0;
a) 10
b) 0
c) -1
```

d) none of the mentioned

Ans: a) 10 Explanation: Thread of the same process shares the global variables. Output: [root@localhost google]# gcc -o san san.c -lpthread [root@localhost google]# ./san 10 [root@localhost google]# View All Answers

Question - 77:

What is the output of this program no 2? #include<stdio.h> #include<pthread.h>

void *fun_t(void *arg); void *fun_t(void *arg)

printf("%dn",a); pthread_exit("Bye");



int main()

```
int a;
   pthread_t pt;
    void *res_t;
    a = 10;
    if(pthread_create(&pt,NULL,fun_t,NULL) != 0)
      perror("pthread_create");
    if(pthread_join(pt,&res_t) != 0)
      perror("pthread_join");
    return 0;
a) 10
```

b) 0 c) -1

}

d) none of the mentioned

Ans:

d) none of the mentioned Explanation: Each thread has its own stack so local variables are not shared among thread. Hence this program will give an error. Output: [root@localhost google]# gcc -o san san.c -lpthread san.c: In function 'fun_t': san.c:7:16: error: 'a' undeclared (first use in this function) san.c:7:16: note: each undeclared identifier is reported only once for each function it appears in [root@localhost google]#

View All Answers

Question - 78: What is the output of this program no 1? #include<stdio.h> #include<pthread.h> void *fun_t(void *arg); void *fun_t(void *arg) { printf("googlen"); pthread_exit("Bye"); int main() ł pthread_t pt; void *res_t; if(pthread_create(&pt,NULL,fun_t,NULL) != 0) perror("pthread_create"); return 0; }

a) this program will print the string "google"

- b) this program will print nothing c) segmentation fault

d) run time error

Ans:

{

b) this program will print nothing Explanation: The pthread_join() function waits for the thread to terminate. Output: [root@localhost google]# gcc -o san san.c -lpthread [root@localhost google]# ./san [root@localhost google]#

View All Answers

Question - 79:

What is the output of this program? #include<stdio.h> #include<pthread.h>

```
void *fun_t(void *arg);
void *fun_t(void *arg)
{
  int ret;
  ret = pthread_exit("Bye");
  printf("%dn",ret);
int main()
```

pthread_t pt; void *res_t; if(pthread_create(&pt,NULL,fun_t,NULL) != 0)



```
perror("pthread_create");
if(pthread_join(pt,&res_t) != 0)
  perror("pthread_join");
return 0;
```

a) 0 b) 1

c) -1 d) none of the mentioned

Ans:

d) none of the mentioned Explanation: The function pthread_exit() does not return any value. Hence this program will give an error. Output: [root@localhost Google]# gcc -o san san.c -lpthread san.c: In function 'fun t': san.c:8:6: error: void value not ignored as it ought to be [root@localhost google]# View All Answers

Question - 80:

Which one of the following string will print first by this program? #include<stdio.h> #include<pthread.h>

```
void *fun_t(void *arg);
  void *fun_t(void *arg)
  {
    printf("Googlen");
    pthread_exit("Bye");
 int main()
  {
    pthread_t pt;
    void *res_t;
    if(pthread_create(&pt,NULL,fun_t,NULL) != 0)
      perror("pthread_create");
    printf("Linuxn");
    if(pthread_join(pt,&res_t) != 0)
    perror("pthread_join");
return 0;
  }
a) Linux
b) Google
c) it can not be predicted
d) none of the mentioned
```

Ans:

b) Google Explanation: It depends upon the scheduler. Output: [root@localhost Google]# gcc -o san san.c -lpthread [root@localhost Google]# ./san Google Linux [root@localhost threads]# View All Answers

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