# Program-1: open\_close.c

|  |
| --- |
| This program is designed to open a file specified as a command-line argument in read-write mode, print the file descriptor if successful, and then close the file. If a file name is provided, it attempts to open the file and checks if the operation was successful. If the file cannot be opened, it prints an error message and exits; otherwise, it prints the file descriptor. |
| #include <stdio.h>  #include <unistd.h>  #include <fcntl.h>  int main(int argc, char \*argv[]) {  int fd; /\* Open file \*/  //This checks if the number of command-line arguments is 1. If so, it means no file name was provided.  if (argc == 1) {  printf("No file specified as command line argument.\n");  return (1);  }  //This tries to open the file specified in the first command-line argument (argv[1]) in read-write mode. The file descriptor is assigned to fd. If the open function returns -1, it means the file could not be opened.  if ((fd = open(argv[1], O\_RDWR)) == -1) {  printf("File opening.\n");  return(1);  }  else  printf("The file descriptor is %d.\n", fd);  if(close(fd) == -1) {  printf("File closing");  return(1);  }  else  printf("File closed successfully.\n");  return(0);  } |

|  |  |
| --- | --- |
| Terminal | |
| $  $  $  $ | gcc hw1\_open\_close.c -o hw1  ./hw1 foo.txt  File opening.  touch foobar.txt  ./hw1 foobar.txt  The file descriptor is 3.  File closed successfully. |

[Output Analysis]

When testing a un-exist file, it indicate the file opening while not assign the fd. However, if we test the exist file, the fd assign information is printed.

# Program-2: Open\_close\_rev.c

|  |
| --- |
| This program is almost the same with program-1, except that it closed the standard input before it open the file, making 0 being the first available fd number to be assigned to the next open file. |
| #include <stdio.h>  #include <unistd.h>  #include <fcntl.h>  int main(int argc, char \*argv[]) {  int fd; /\* Open file \*/  if (argc == 1) {  printf("No file specified as command line argument.\n");  return (1);  }    close(0); /\* Closed standard input \*/  if ((fd = open(argv[1], O\_RDWR)) == -1) {  printf("File opening.\n");  return(1);  }  else  printf("The file descriptor is %d.\n", fd);  /\* Close file \*/  if(close(fd) == -1) {  printf("File closing");  return(1);  }  else  printf("File closed successfully.\n");  return(0);  } |

|  |  |
| --- | --- |
| Terminal | |
| $  $  $ | gcc p2.c -o p2  touch p2File.txt  ./p2 p2File.txt  The file descriptor is 0.  File closed successfully. |

[Output Analysis]

In the updated code, the line *close(0);* closes the standard input, which has the file descriptor 0. When the code subsequently run to the line that open a new file, the operating system typically assigns the lowest available file descriptor, which in this case is 0 (since it was just freed by the close(0) call).

# Program-3: cpy.c

|  |
| --- |
| This program copies the contents of a source file to a destination file. The program opens the source file in read-only mode and the destination file in write-only mode, creating the destination file if it does not exist and truncating it if it does. It reads data from the source file in chunks of 512 bytes and writes it to the destination file until all data is copied. Custom closefd function is used to close both files, printing an error message if closing any file fails. |
| #include<fcntl.h>  #include <stdio.h>  #include <unistd.h>  #define SIZE 512 // define a constant SIZE with value 512 to be used as buffer size  int closefd(int); // function prototype declaration for closefd  int main(int argc, char \*argv[]) {  int rfd, wfd, nr, nw;  char buf[SIZE];  // Check if the number of command line arguments is not equal to 3  if(argc != 3) {  printf("Inappropriate number of command line arguments.\n");  return(0);  }  /\* Open the source file for reading \*/  if ((rfd = open(argv[1], O\_RDONLY)) == -1) {  printf("Source file opening");  return(1);  }    //Open the destination file for writing  if ((wfd = open(argv[2], O\_CREAT | O\_WRONLY | O\_TRUNC, 0666)) == -1) {  printf("Creation and opening of destination file\n");  return(1);}  // read from the source file and write to the destination file in a loop  // read up to SIZE bytes from the source file into the buffer  while((nr = read(rfd, buf, sizeof(buf))) != 0) {  if (nr == -1) {  printf("File reading.\n");  return(1);  }  // write the bytes read to the destination file  nw = write(wfd, buf, nr);  }  closefd(rfd);  closefd(wfd);  }  int closefd(int fd) {  if (close(fd) == -1) {  printf("File closing\n");  return(1);  }  } |

|  |  |
| --- | --- |
| Terminal | |
| $  $  $  $ | gcc hw2\_cpy.c -o hw2  ls  foobar.txt hw1 hw1\_open\_close.c hw2 hw2\_cpy.c  ./hw2 hw2\_cpy.c hw2\_cpy.bak  ls -a -l  total 52  drwxrwxr-x 2 beza beza 4096 May 23 11:22 .  drwxrwxr-x 6 beza beza 4096 May 23 10:52 ..  --wxrw-r-- 1 beza beza 0 May 23 10:54 foobar.txt  -rwxrwxr-x 1 beza beza 16096 May 23 10:53 hw1  -rw-rw-r-- 1 beza beza 715 May 23 10:53 hw1\_open\_close.c  -rwxrwxr-x 1 beza beza 16256 May 23 11:20 hw2  -rw-rw-r-- 1 beza beza 1369 May 23 11:22 hw2\_cpy.bak  -rw-rw-r-- 1 beza beza 1369 May 23 11:20 hw2\_cpy.c |

[Output Analysis]

After we running the program, a new file end with .bak is created, and the content has been write into that file. We use long list command to check, and we can see that both of the files has the same size, meaning this program is to copy the content from the source file to a target file.

* Function Prototype

A C function prototype is a declaration that informs the compiler about a function's name, its return type, and the number and data types of its parameters. This allows the compiler to check the function's usage against its definition, ensuring that parameters and data types are correctly matched.

Function prototypes act similarly to function declarations and are necessary when a function is referenced or called before its definition. However, if the function definition appears before any calls to the function in the program, the prototype becomes optional.

# Program-4: create\_holes.c

|  |
| --- |
| This program opens a specified file and inserts a given number of "holes" in it. The program takes two command-line arguments: the filename and the number of holes to create. For each hole, it moves the file offset 512 bytes from the end of the file and writes a specified string of data. |
| #include <stdio.h>  #include <fcntl.h>  #include <unistd.h>  #include <string.h>  // Define a constant HSIZE with value 512 of type long, representing the size of the hole  #define HSIZE 512L  int main(int argc, char \*argv[])  {  int fd, i, n, nholes, nw;  char \*buf = "Random data for creating holes.";  /\* Open the given file \*/  if (argc != 3) {  printf("Inappropriate number of command line arguments \n");  return(0);  }  // Convert the second command line argument to an integer representing the number of holes  nholes = atoi(argv[2]);  if ((fd = open(argv[1], O\_WRONLY)) == -1) {  printf("File opening\n");  return(1);  }  // loop to create the specified number of holes  for (i = 0; i < nholes; i++) {  // move the file offset HSIZE bytes from the end of the file (creating a hole)  n = lseek(fd, HSIZE, SEEK\_END);  // write the buffer content to the file at the new offset  nw = write(fd, buf, strlen(buf));  }  if (close(fd) == -1) {  printf("File closing/\n");  return(1);  }  return(0);  } |

|  |  |
| --- | --- |
| Terminal | |
| $  $  $  $  $  $  $  $ | gcc p4.c -o p4  man bash > data  ls -l data  -rw-rw-r-- 1 beza beza 341147 Jun 13 21:54 data  tail data | od  0000000 020040 020040 020040 051440 062550 066154 061040 064565  0000020 072154 067151 061440 066557 060555 062156 020163 067141  0000040 020144 072546 061556 064564 067157 020163 071141 020145  0000060 067556 020164 072163 070157 060560 066142 027545 062562  0000100 072163 071141 060564 066142 027145 005012 020040 020040  0000120 020040 041440 066557 067560 067165 020144 067543 066555  0000140 067141 071544 060440 062156 061440 066557 060555 062156  0000160 071440 070545 062565 061556 071545 067440 020146 064164  0000200 020145 067546 066562 060040 020141 020073 020142 020073  0000220 023543 060440 062562 067040 072157 064040 067141 066144  0000240 062145 063440 060562 062543 072546 066154 020171 064167  0000260 067145 070040 067562 062543 071563 071440 071565 062560  0000300 071556 067551 020156 071551 060440 072164 066545 072160  0000320 062145 020056 053440 062550 020156 020141 071160 061557  0000340 071545 020163 071551 071440 067564 070160 062145 020054  0000360 064164 020145 071440 062550 066154 020040 066551 062555  0000400 064544 100342 005220 020040 020040 020040 060440 062564  0000420 074554 062440 062570 072543 062564 020163 064164 020145  0000440 062556 072170 061440 066557 060555 062156 064440 020156  0000460 064164 020145 062563 072561 067145 062543 020056 044440  0000500 020164 072563 063146 061551 071545 072040 020157 066160  0000520 061541 020145 064164 020145 062563 072561 067145 062543  0000540 067440 020146 067543 066555 067141 071544 061040 072145  0000560 062567 067145 070040 071141 067145 064164 071545 071545  0000600 072040 020157 067546 061562 020145 072151 064440 072156  0000620 020157 020141 072563 071542 062550 066154 020054 064167  0000640 061551 020150 060555 020171 062542 071440 067564 070160  0000660 062145 060440 020163 020141 067165 072151 005056 020012  0000700 020040 020040 020040 071101 060562 020171 060566 064562  0000720 061141 062554 020163 060555 020171 067556 020164 074450  0000740 072145 020051 062542 062440 070170 071157 062564 027144  0000760 005012 020040 020040 020040 052040 062550 062562 066440  0001000 074541 061040 020145 067157 074554 067440 062556 060440  0001020 072143 073151 020145 067543 071160 061557 071545 020163  0001040 072141 060440 072040 066551 027145 005012 047107 020125  0001060 060502 064163 032440 030456 020040 020040 020040 020040  0001100 020040 020040 020040 020040 020040 020040 020040 020040  \*  0001200 030062 030062 047440 072143 061157 071145 031040 020071  0001220 020040 020040 020040 020040 020040 020040 020040 020040  \*  0001320 020040 020040 020040 020040 020040 020040 040502 044123  0001340 030450 005051  0001344  ls -l data  -rw-rw-r-- 1 beza beza 341147 Jun 13 21:54 data  ./p4 data 3  ls -l data  -rw-rw-r-- 1 beza beza 342776 Jun 13 21:58 data  tail data | od  0000000 020012 020040 020040 020040 067503 070155 072557 062156  0000020 061440 066557 060555 062156 020163 067141 020144 067543  0000040 066555 067141 020144 062563 072561 067145 062543 020163  0000060 063157 072040 062550 063040 071157 020155 060540 035440  0000100 061040 035440 061440 020047 071141 020145 067556 020164  0000120 060550 062156 062554 020144 071147 061541 063145 066165  0000140 074554 073440 062550 020156 071160 061557 071545 020163  0000160 072563 070163 067145 064563 067157 064440 020163 072141  0000200 062564 070155 062564 027144 020040 064127 067145 060440  0000220 070040 067562 062543 071563 064440 020163 072163 070157  0000240 062560 026144 072040 062550 020040 064163 066145 020154  0000260 064440 066555 062145 161151 110200 020012 020040 020040  0000300 020040 072141 066145 020171 074145 061545 072165 071545  0000320 072040 062550 067040 074145 020164 067543 066555 067141  0000340 020144 067151 072040 062550 071440 070545 062565 061556  0000360 027145 020040 072111 071440 063165 064546 062543 020163  0000400 067564 070040 060554 062543 072040 062550 071440 070545  0000420 062565 061556 020145 063157 061440 066557 060555 062156  0000440 020163 062542 073564 062545 020156 060560 062562 072156  0000460 062550 062563 020163 067564 063040 071157 062543 064440  0000500 020164 067151 067564 060440 071440 061165 064163 066145  0000520 026154 073440 064550 064143 066440 074541 061040 020145  0000540 072163 070157 062560 020144 071541 060440 072440 064556  0000560 027164 005012 020040 020040 020040 040440 071162 074541  0000600 073040 071141 060551 066142 071545 066440 074541 067040  0000620 072157 024040 062571 024564 061040 020145 074145 067560  0000640 072162 062145 005056 020012 020040 020040 020040 064124  0000660 071145 020145 060555 020171 062542 067440 066156 020171  0000700 067157 020145 061541 064564 062566 061440 070157 067562  0000720 062543 071563 060440 020164 020141 064564 062555 005056  0000740 043412 052516 041040 071541 020150 027065 020061 020040  0000760 020040 020040 020040 020040 020040 020040 020040 020040  \*  0001060 020040 020040 031040 031060 020060 061517 067564 062542  0001100 020162 034462 020040 020040 020040 020040 020040 020040  0001120 020040 020040 020040 020040 020040 020040 020040 020040  \*  0001220 041040 051501 024110 024461 000012 000000 000000 000000  0001240 000000 000000 000000 000000 000000 000000 000000 000000  \*  0002220 000000 000000 000000 000000 051000 067141 067544 020155  0002240 060544 060564 063040 071157 061440 062562 072141 067151  0002260 020147 067550 062554 027163 000000 000000 000000 000000  0002300 000000 000000 000000 000000 000000 000000 000000 000000  \*  0003260 000000 000000 000000 000000 060522 062156 066557 062040  0003300 072141 020141 067546 020162 071143 060545 064564 063556  0003320 064040 066157 071545 000056 000000 000000 000000 000000  0003340 000000 000000 000000 000000 000000 000000 000000 000000  \*  0004320 000000 000000 000000 051000 067141 067544 020155 060544  0004340 060564 063040 071157 061440 062562 072141 067151 020147  0004360 067550 062554 027163  0004366 |

**[Output Analysis]**

The file *data* originally had a size of 341,147 bytes, filled with the contents of the bash manual page.

We use the command “./p4 data 3” to add holes, the file size increased to 342,776 bytes, showing that holes and additional data have been added. The program modifies data by creating three "holes" appending a specified string after each hole. The holes are created by using lseek to move the file offset forward by 512 bytes (HSIZE), effectively skipping those bytes without writing data to them. Then, the program writes a buffer containing "Random data for creating holes." to the file.

**Change in file size:**

The initial size of the file data is 341,147 bytes.

For each hole and string written, the file size increases by:

512 bytes (hole)+30 bytes (string)=542 bytes

-Each hole is 512 bytes.

-The string "Random data for creating holes." is 30 bytes long.

The loop runs three times: 3×542 bytes=1626 bytes

**Final file size:** 341,147 bytes+1,626 bytes=342,773 bytes

However, the final file size reported is 342,776 bytes, which is slightly more than our calculated size by 3 bytes. This discrepancy could be due to additional newline characters or slight variations in how the file system handles the end-of-file marker and metadata.

# Program-5: create\_holes.c

It’s a duplicate of Program 4, therefore I skipped this program.

# Program-6: truncate.c

|  |
| --- |
| This program performs file operations to demonstrate file truncation and size measurement. It opens a file specified by the first command line argument in write-only mode. It then retrieves the original size of the file using lseek to move the file pointer to the end. Next, it truncates the file to a new size specified by the second command line argument using the truncate function. After truncation, it again uses lseek to determine and print the sizes of both the original and truncated files. |
| #include <fcntl.h>  #include<stdio.h>  #include <unistd.h>  #define HSIZE 512L  int main(int argc, char \*argv[]){  int fd, newfilesize, size\_o, size\_t; /\* Open the given file \*/  if (argc != 3) {  printf("Inappropriate number of command line arguments.\n");  return (0);  }  newfilesize = atoi(argv[2]);  if ((fd = open(argv[1], O\_WRONLY)) == -1) {  printf("File opening\n");  return (1);  }  // determine the size of the original file using lseek  size\_o = lseek(fd, 0, SEEK\_END); /\* Size of original file \*/  // Truncate the file to the specified size  if (truncate(argv[1], newfilesize) == -1) {  printf("Truncating file\n");  return(1);  }  // Determine the size of the truncated file using lseek  size\_t = lseek(fd,0,SEEK\_END); /\* Size of truncated file \*/  printf("The size of the original file is %d bytes.\n", size\_o);  printf("The size of the truncated file is %d bytes.\n", size\_t);  if (close(fd) == -1) {  printf("File closing \n");  return(1);  }  return(0);} |

|  |  |
| --- | --- |
| **Terminal** | |
| **$**  **$**  **$**  **$**  **$** | man cat > data1  ls -l data1  -rw-rw-r-- 1 beza beza 2147 Jun 13 22:35 data1  tail -5 data1  Full documentation <https://www.gnu.org/software/coreutils/cat>  or available locally via: info '(coreutils) cat invocation'  GNU coreutils 8.32 February 2024 CAT(1)  ./p6 data1 1024  The size of the original file is 2147 bytes.  The size of the truncated file is 1024 bytes.  tail -5 data1  -v, --show-nonprinting  use ^ and M- notation, except for LFD and TAB |

[Output Analysis]

The program confirms the size of the original file (data1) is 2147 bytes. It then truncates data1 to 1024 bytes and confirms the new size after truncation is 1024 bytes.

We use the tail command to review the last 5 lines for the data1, finding it different from the previous version, indicating something has been removed also.

# Program-7: create\_holes\_delete.c

|  |
| --- |
| This program takes an additional argument that specifies the number of "holes" to create in the file. The program opens the file in write-only mode, determines its original size, then proceeds to extend the file size by appending data of HSIZE repeatedly by nholes times. After creating the holes, it determines and prints the sizes of the original file and the modified file (with holes). Finally, it deletes the file using unlink. |
| #include <fcntl.h>  #include <unistd.h>  #include <string.h>  #include <stdio.h>  #define HSIZE 512L  int main(int argc, char \*argv[]) {  int fd, i, n, nholes, nw, size\_o, size\_h;  char \*buf = "Random data for creating holes.";  /\* Open the given file \*/  if (argc != 3) {  printf("Inappropriate number of command line arguments.\n");  return (0);  }  nholes = atoi(argv[2]);  if ((fd = open(argv[1], O\_WRONLY)) == -1) {  printf("File opening\n");  return(1);  }  size\_o = lseek(fd,0,SEEK\_END); /\* Size of original file \*/  // create 'nholes' number of holes in the file, each of size HSIZE  for (i = 0; i < nholes; i++) {  // seek HSIZE bytes from the end of the file  n = lseek(fd, HSIZE, SEEK\_END);  // write buf to create a hole  nw = write(fd, buf,strlen(buf));  }  // determine the size of the file after creating holes  size\_h = lseek(fd,0,SEEK\_END); /\* Size of file with holes \*/  if (close(fd) == -1) {  printf("File closing \n");  return(1);  }  printf("The size of the original file is %d bytes. \n", size\_o);  printf("The size of the file with holes is %d bytes.\n", size\_h);  // delete the file  unlink(argv[1]);  return(0);  } |

|  |  |
| --- | --- |
|  |  |
| $  $  $  $ | man bash > data2  ls -l data2  -rw-rw-r-- 1 beza beza 341147 Jun 13 22:53 data2  gcc p7.c -o p7  ./p7 data2 3  The size of the original file is 341147 bytes.  The size of the file with holes is 342776 bytes. |

[Output analysis]

The original file data2 has a size of 341147 bytes.

File size after creating Holes: the file size has increased to 342776 bytes.

Size difference is 342776 - 341147 = 1629 bytes.

Holes: 3 \* 512 = 1536 bytes

The additional 93 bytes, which is 1629-1536, might be due to filesystem or alignment overhead.

8.613920000000000243e+01,3.818599999999999994e+01,6.016969999999999885e+01,8.245409999999999684e+01,3.749289999999999878e+01,2.592719999999999914e+01,6.966240000000000521e+01,4.933350000000000080e+01,3.458520000000000039e+01,4.746849999999999881e+01,7.591280000000000427e+01,2.922749999999999915e+01,2.055480000000000018e+01,7.764140000000000441e+01,9.842449999999999477e+01,7.768649999999999523e+01,2.871630000000000038e+01,2.830499999999999794e+00,1.124070000000000036e+01,3.133790000000000120e+01,5.900249999999999773e+01,4.784929999999999950e+01,7.676499999999999879e+00,1.725900000000000034e+01,8.693999999999999773e+01,6.648569999999999425e+01,1.031140000000000079e+01,4.983630000000000138e+01,1.425370000000000026e+01,1.941200000000000037e+00,1.895289999999999964e+01,5.401760000000000161e+01,4.414419999999999789e+01,6.965500000000000114e+01,7.438859999999999673e+01  
1.118800000000000061e+01,5.266149999999999665e+01,2.545980000000000132e+01,9.129850000000000421e+01,6.405049999999999955e+01,4.038700000000000401e+00,7.409329999999999927e+01,5.082900000000000418e+00,5.961169999999999902e+01,7.061709999999999354e+01,6.800849999999999795e+01,6.614759999999999707e+01,6.669650000000000034e+01,6.529340000000000543e+01,1.885000000000000142e+01,2.355000000000000071e+01,6.425200000000000244e+00,8.433780000000000143e+01,6.073519999999999897e+01,2.451300000000000168e+01,2.089310000000000045e+01,6.410360000000000014e+01,1.025200000000000067e+01,1.772109999999999985e+01,9.755060000000000286e+01,8.110599999999999454e+01,5.412489999999999668e+01,3.790420000000000300e+01,2.982539999999999836e+01,1.239860000000000007e+01,1.578079999999999927e+01,7.592980000000000018e+01,9.728669999999999618e+01,5.376859999999999928e+01,1.514600000000000080e+01  
6.830049999999999955e+01,4.328730000000000189e+01,2.365970000000000084e+01,4.272200000000000131e+01,6.616140000000000043e+01,8.878440000000000509e+01,1.713169999999999860e+01,2.804810000000000159e+01,1.980839999999999890e+01,9.352060000000000173e+01,5.014710000000000178e+01,4.413060000000000116e+01,6.894809999999999661e+01,7.882219999999999516e+01,7.748470000000000368e+01,6.198830000000000240e+01,7.602729999999999677e+01,4.660400000000000098e+00,6.025189999999999912e+01,7.204659999999999798e+01,6.238380000000000081e+01,9.295059999999999434e+01,7.964409999999999457e+01,2.117999999999999972e+01,1.643969999999999843e+01,5.892609999999999815e+01,7.060360000000000014e+01,3.608129999999999882e+01,1.399629999999999974e+01,5.626019999999999754e+01,6.512390000000000612e+01,5.942399999999999949e+01,8.195040000000000191e+01,6.380400000000000205e+01,1.960239999999999938e+01  
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