fstat()

The fstat() function retrieves metadata about a file by using its file descriptor, populating a "struct stat". It's defined in "sys/stat.h".

```
#include <sys/stat.h>

// "fd" is the file descriptor (e.g. from "open()")

// "statbuf" is a pointer to store metadata
int fstat(int fd, struct stat *statbuf);
```

Returns 0 if success. In case of failure, returns -1 and sets "errno".

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Example Usage

```
#include <sys/stat.h>
#include <fcntl.h>
#include <stdio.h>
#include <unistd.h>
int main(void)
{
  int fd;
  struct stat statbuf;
  fd = open("example.txt", O_RDONLY);
  if (fd == -1)
     perror("open");
     return (1);
  if (fstat(fd, &statbuf) == -1)
     perror("fstat");
     close(fd);
     return (1);
  printf("File size: %Id bytes\n", statbuf.st_size);
  printf("Owner UID: %d\n", statbuf.st_uid);
  close(fd);
  return (0);
}
```

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