opendir/readdir(3)	opendi <i>t/</i> readdir(3)
SYNOPSIS #include <sys types.h=""></sys>	
#include <dirent.h></dirent.h>	
<pre>DIR *opendir(const char *name);</pre>	
<pre>struct dirent *readdir(DIR *dir);</pre>	
DESCRIPTION opendir The opendir() function opens a directory to the directory stream. The stream is po	PTION opendir The opendir () function opens a directory stream corresponding to the directory <i>name</i> , and returns a pointer to the directory stream. The stream is positioned at the first entry in the directory.
RETURN VALUE The opendir () function returns a pointer	(VALUE The opendir () function returns a pointer to the directory stream or NULL if an error occurred.
DESCRIPTION readdir The readdir() function returns a pointe directory stream pointed to by <i>dir</i> . It retu	PTION readdir The readdir () function returns a pointer to a dirent structure representing the next directory entry in the directory stream pointed to by <i>dir</i> . It returns NULL on reaching the end-of-file or if an error occurred.
The data returned by readdir () is over stream.	The data returned by readdir() is overwritten by subsequent calls to readdir() for the same directory stream.
<pre>struct dirent { long d_ino; off_t d_off; unsigned short d_reclen; unsigned char d_type; char d_name[256]; };</pre>	/* inode number */ /* offset to the next dirent */ /* length of this record */ /* type of file */ /* filename */
RETURN VALUE The readdir () function returns a pointer reached.	vvALUE The readdir() function returns a pointer to a dirent structure, or NULL if an error occurs or end-of-file is reached.
ERRORS EACCES Permission denied.	
EMFILE Too many file descriptors in use by process.	by process.
ENFILE Too many files are currently open in the system	n in the system.
ENOENT Directory does not exist, or <i>name</i> is an empty string	ø is an empty string.
ENOMEM Insufficient memory to complete the operation	the operation.
ENOTDIR <i>name</i> is not a directory.	
SEE ALSO open(2), readdir(3), closedir(3), rewinddir(3), seekdir(3), telldir(3), scandir(3)	dir(3), seekdir(3), telldir(3), scandir(3)
SP-Miniklausur Manual-Auszug	2016-11-04 1

RETURN VALUE On succe EACCES ENOEN ENOTDI	TI ^{is}	3	int sta int lsta DESCRIPTION These get thii stat sta it refer it refer	NAME SYNOPSIS 告 告
 IVALUE On success, zero is returned. On error, -1 is returned, and <i>errno</i> is set appropriately. EACCES Search permisson is denied for one of the directories in the path prefix of <i>path</i>. ENOENT A component of <i>path</i> does not exist, or <i>path</i> is an empty string. ENOTDIR A component of the path prefix of <i>path</i> is not a directory. 	is the length of the pathname it contains, without trailing NUL. The following POSIX macros are defined to check the file type in the field <i>st_mode:</i> S_ISREG(m) is it a regular file? S_ISDIR(m) directory?	<pre>struct stat { dev_t st_dev; /* device */ ino_t st_ino; /* inode */ mode_t st_mode; /* protection */ nink_t st_nlink; /* number of hard links */ gid_t st_gid; /* group ID of owner */ gid_t st_gid; /* group ID of owner */ gid_t st_gid; /* device type (if inode device) */ off_t st_size; /* device type (if inode device) */ off_t st_size; /* total size, in bytes */ blksize_t st_blksize; /* blocksize for filesystem I/O */ blkcnt_t st_blocks; /* number of blocks allocated */ time_t st_mime; /* time of last access */ time_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_cuine; /* time of last status change */ itime_t st_status change */ itime_t st_statustatustatustatus change */ itime_t st_statustatustatus</pre>	int stat(const char * path, struct stat * buf); int lstat(const char * path, struct stat * buf); prioN These functions return information about the specified file. You do not need any access rights to the file to get this information but you need search rights to all directories named in the path leading to the file. stat stats the file pointed to by path and fills in buf. stat stats the file pointed to by path and fills in buf. Istat is identical to stat, except in the case of a symbolic link, where the link itself is stat-ed, not the file that it refers to.	stat, lstat – get file status IS #Include <sys types.h=""> #Include <sys stat.h=""> #Include <sys stat.h=""></sys></sys></sys>

1

stat(2)

stat(2)