fputwc *Write Wide Character to File (C99)* <wchar.h>

```
wint_t fputwc(wchar_t c, FILE *stream);
```

Wide-character version of fputc. *25.5*

---

fputws *Write Wide String to File (C99)* <wchar.h>

```
int fputws(const wchar_t * restrict s,
           FILE * restrict stream);
```

Wide-character version of fputs. *25.5*

---

fread *Read Block from File* <stdio.h>

```
size_t fread(void * restrict ptr, size_t size,
             size_t nmemb, FILE * restrict stream);
```

Attempts to read nmemb elements, each size bytes long, from the stream pointed to by stream and store them in the array pointed to by ptr.

Returns Number of elements actually read. This number will be less than nmemb if fread encounters end-of-file or a read error occurs. Returns zero if either nmemb or size is zero. *22.6*

---

free *Free Memory Block* <stdlib.h>

```
void free(void *ptr);
```

Releases the memory block pointed to by ptr. (If ptr is a null pointer, the call has no effect.) The block must have been allocated by a call of calloc, malloc, or realloc. *17.4*

---

freopen *Reopen File* <stdio.h>

```
FILE *freopen(const char * restrict filename,
              const char * restrict mode,
              FILE * restrict stream);
```

Closes the file associated with stream, then opens the file whose name is pointed to by filename and associates it with stream. The mode parameter has the same meaning as in a call of fopen. *C99 change:* If filename is a null pointer, freopen attempts to change the stream's mode to that specified by mode.

Returns Value of stream if the operation succeeds. Returns a null pointer if the file can't be opened. *22.2*

---

frexp *Split into Fraction and Exponent* <math.h>

```
double frexp(double value, int *exp);
frexpf  float frexpf(float value, int *exp);
frexpl  long double frexpl(long double value, int *exp);
```

Splits value into a fractional part f and an exponent n in such a way that

value $= f \times 2^n$