
Appendix

The following lists all of the entries in the Lexicon in their logical order. The Lexicon is tree structured, with the root entry being the one entitled **Lexicon**.

The logical structure of the Lexicon closely follows that of the ANSI Standard. Articles on related topics are grouped together for easy access. In instances where an article describes an entity that has more than one use (e.g., the operator '*'), the article's position in the logic tree is based on a judgement of how that entity is used most frequently by C programmers.

Each entry marked with an asterisk '*' refers to a topic that is specific to the Atari ST or to **Let's C**.

Lexicon

Definitions

- address
- alias
- alignment
- argument
- arena*
- ASCII
- behavior
- BIOS*
- bit
- bit-fields
- bit map*
- block
- buffer
- byte
- compliance
- cc0*
- cc1*
- cc2*
- cc3*
- cc4*
- daemon*
- decimal-point character
- directory*
- domain error
- executable file*
- false
- field*
- file
- file descriptor*
- interrupt*
- letter
- link
- manifest constant
- nested comments*
- nybble*
- object format*
- object

- parameter
- pattern*
- port*
- portability
- process*
- pun*
- quiet change
- random access*
- range error
- ranlib*
- read-only memory*
- record*
- register*
- rvalue
- spirit of C
- stack*
- Standard
- standard error
- standard input
- standard output
- stream
- string
- true
- Universal Coordinated Time
- wildcards*

Environment

- __end*
- argc
- argv
- character display semantics
- diagnostics
- envp*
- main
- maxmem*
- XOFF*
- XON*
- environmental variable*
 - CCHEAD*
 - CCTAIL*
 - INCDIR*
 - LIBPATH*
 - PATH*
 - TIMEZONE*
 - TMPDIR*
- numerical limits
 - float.h
 - limits.h
- operating system device*
 - aux*
 - com1*
 - con*
 - lpt1*
 - nul*
 - prn*

- program startup
- program termination
- runtime startup*
 - _main*
 - crt0xl*
 - crt0xs*
- sequence points
- side effects
- signals/interrupts
- source file
- translation limits
- translation phase
- translation unit
- trigraph sequences
- Language
 - constant expressions
 - conversions
 - explicit conversion
 - function designator
 - implicit conversion
 - lvalue
 - null pointer constant
 - value preserving
 - void expression
 - declarations
 - definition
 - declarators
 - array declarators
 - function declarators
 - pointer declarators
 - initialization
 - storage-class specifiers
 - auto
 - extern
 - register
 - static
 - typedef
 - type names
 - type qualifier
 - const
 - volatile
 - type specifier
 - compatible types
 - enum
 - expressions
 - !
 - !=
 - %
 - % =
 - &
 - & &
 - & =
 - *
 - * =

```

+
++
+=
,
-
--
-=
->
.
/
/=
<
<<
<<=
<=
=
==
>
>>
>>=
>=
?:
[]
^
^=
|
||
|=
~
sizeof
external definitions
    function definition
    object definition
function call
function prototypes
lexical elements
    comment
        */
        /*
    constants
        character constant
        escape sequence
        enumeration constant
        floating constant
        integer constant
    header names
    identifiers
        digit
        external name
        internal name
        linkage
        nondigit
        name space
            label

```

```

        member
        ordinary identifier
        tag
    scope
    storage duration
    types
        char
        double
        float
        int
        long double
        long int
        pointer
        short int
        signed
        signed char
        struct
        union
        unsigned
        unsigned char
        unsigned int
        unsigned long int
        unsigned short int
        void
    keywords
    operators
    preprocessing numbers
    punctuators
        ( )
        :
        ;
        { }
    string literal
        "
    token
preprocessing
    #
    # #
    #define
    #elif
    #else
    #endif
    #error
    #if
    #ifdef
    #ifndef
    #include
    #line
    #pragma
    #undef
    __DATE__
    __FILE__
    __LINE__
    __STDC__

```


- toupper()
- date and time
 - time.h
 - CLK_TCK
 - clock_t
 - time_t
 - tm
 - asctime()
 - clock()
 - ctime()
 - difftime()
 - gmtime()
 - localtime()
 - mktime()
 - strftime()
 - time()
- diagnostics
 - assert.h
 - assert()
- errors
 - errno.h
 - errno
- extended character handling
 - xctype.h*
 - _tolower()*
 - _toupper()*
 - isascii()*
 - toascii()*
- extended mathematics
 - xmath.h
 - cabs()*
 - hypot()*
 - j0()*
 - j1()*
 - jn()*
- extended miscellaneous
 - _exit()*
 - _zero()*
 - close()*
 - creat()*
 - dup()*
 - dup2()*
 - ecvt()*
 - exargs()*
 - execall()*
 - fcvt()*
 - gcvt()*
 - in()*
 - inb()*
 - index()*
 - mktemp()*
 - notmem()*
 - open()*
 - out()*

- outb()*
- peek()*
- peekb()*
- pnmatch()*
- poke()*
- pokeb()*
- read()*
- rindex()*
- sbrk()*
- shellsort()*
- swab()*
- tempnam()*
- unlink()*
- write()*
- extended STDIO
 - xstdio.h
 - fdopen()*
 - fgetw()*
 - fileno()*
 - fputw()*
 - getanb()*
 - getcnb()*
 - getw()*
 - lseek()*
 - putanb()*
 - putcnb()*
 - putw()*
- extended time
 - xtime.h*
 - dayspermonth()*
 - isleapyear()*
 - jday_to_time()*
 - jday_to_tm()*
 - stime()*
 - time_to_jday()*
 - tm_to_jday()*
- general utilities
 - stdlib.h
 - div_t
 - ldiv_t
 - abort()
 - abs()
 - atexit()
 - atof()
 - atoi()
 - atol()
 - bsearch()
 - calloc()
 - div()
 - exit()
 - free()
 - getenv()
 - labs()
 - ldiv()


```

        malloc()
        mblen()
        mbstowcs()
        mbtowc()
        qsort()
        rand()
        realloc()
        srand()
        strtod()
        strtol()
        strtoul()
        system()
        wcstombs()
        wctomb()
header
        bios.h*
        larges.h*
        mtype.h*
i8086 support*
        dos.h*
        PTR*
        _copy()*
        csreg()*
        dsreg()*
        esreg()*
        intcall()*
        ptoreg()*
        regtop()*
        ssreg()*
localization
        locale.h
        lconv
        localeconv()
        setlocale()
mathematics
        math.h
        acos()
        asin()
        atan()
        atan2()
        ceil()
        cos()
        cosh()
        exp()
        fabs()
        floor()
        fmod()
        frexp()
        ldexp()
        log()
        log10()
        modf()
        pow()
        sin()

```

- sinh()
- sqrt()
- tan()
- tanh()
- non-local jumps
 - setjmp.h
 - jmp_buf
 - longjmp()
 - setjmp()
- signal handling
 - signal.h
 - sig_atomic_t
 - raise()
 - signal()
- STDIO
 - stdio.h
 - EOF
 - FILE
 - fpos_t
 - stderr
 - stdin
 - stdout
 - clearerr()
 - fclose()
 - feof()
 - ferror()
 - fflush()
 - fgetc()
 - fgetpos()
 - fgets()
 - fopen()
 - fprintf()
 - fputc()
 - fputs()
 - fread()
 - freopen()
 - fscanf()
 - fseek()
 - fsetpos()
 - ftell()
 - fwrite()
 - getc()
 - getchar()
 - gets()
 - perror()
 - printf()
 - putc()
 - putchar()
 - puts()
 - rewind()
 - setbuf()
 - setvbuf()
 - remove()
 - rename()

- scanf()
- sprintf()
- sscanf()
- tmpfile()
- tmpnam()
- ungetc()
- vfprintf()
- vprintf()
- vsprintf()
- string handling
 - string.h
 - memchr()
 - memcpy()
 - memcmp()
 - memmove()
 - memset()
 - strcat()
 - strchr()
 - strcmp()
 - strcoll()
 - strcpy()
 - strcspn()
 - strerror()
 - strlen()
 - strncat()
 - strncmp()
 - strncpy()
 - strpbrk()
 - strrchr()
 - strspn()
 - strstr()
 - strtok()
 - strxfrm()
- variable arguments
 - stdarg.h
 - va_list
 - va_arg()
 - va_end()
 - va_start()
- DOS-specific features
 - command*
 - as*
 - cc*
 - cmp*
 - cpp*
 - egrep*
 - exetcom*
 - fixobj*
 - ld*
 - make*
 - me*
 - mwlib*
 - nm*
 - size*

strip*
tail*
wc*
example*
 example*
 picture*
technical information*
 ansi.sys*
 BIOS data area
 byte ordering*
 i8087*
 keyboard
 LARGE model
 model
 SMALL model

