Almog String Manipulation

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Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

| Almog_String_Manipulation.h | |
|--|----|
| Lightweight string and line manipulation helpers | 3 |
| striped_Almog_String_Manipulation.h | 13 |
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2 File Index

Chapter 2

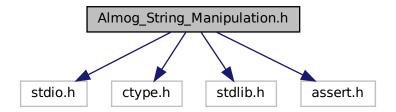
File Documentation

2.1 Almog_String_Manipulation.h File Reference

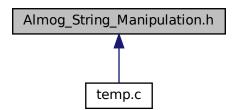
Lightweight string and line manipulation helpers.

```
#include <stdio.h>
#include <ctype.h>
#include <stdlib.h>
#include <assert.h>
```

Include dependency graph for Almog_String_Manipulation.h:



This graph shows which files directly or indirectly include this file:



Macros

#define ASM_MAXDIR 100

Generic maximum directory length constant (not used by the functions in this header but available to callers).

#define ASM_MAX_LEN_LINE (int)1e3

Maximum number of characters read by asm_get_line (excluding the terminating null).

#define asm_dprintSTRING(expr) printf(#expr " = %s\n", expr)

Debug print a C string expression as "expr = value\n".

#define asm_dprintCHAR(expr) printf(#expr " = %c\n", expr)

Debug print a character expression as "expr = c n".

#define asm_dprintINT(expr) printf(#expr " = %d\n", expr)

Debug print an integer expression as "expr = $n\n$ ".

#define asm_dprintSIZE_T(expr) printf(#expr " = %zu\n", expr)

Debug print a size_t expression as "expr = $n\n$ ".

Functions

• int asm_get_line (FILE *fp, char *dst)

Read a single line from a stream into a buffer.

int asm_length (char *str)

Compute the length of a null-terminated C string.

• int asm_get_next_word_from_line (char *dst, char *src, char seperator)

Extract the next word from a line without modifying the source.

void asm_copy_array_by_indesies (char *target, int start, int end, char *src)

Copy a substring [start, end) from src into target and null-terminate.

int asm_get_word_and_cut (char *dst, char *src, char seperator)

Get the next word and cut the source string at that point.

• int asm_str_in_str (char *src, char *word2search)

Count occurrences of a substring within a string.

int asm_strncmp (const char *s1, const char *s2, const int N)

Compare up to N characters for equality (boolean result).

2.1.1 Detailed Description

Lightweight string and line manipulation helpers.

This single-header module provides small utilities for working with C strings:

- · Reading a single line from a FILE stream
- · Measuring string length
- · Extracting the next "word" (token) from a line using a separator
- · Cutting the extracted word from the source buffer
- · Copying a substring by indices
- · Counting occurrences of a substring
- · A boolean-style strncmp (returns 1 on equality, 0 otherwise)

Usage

- In exactly one translation unit, define ALMOG_STRING_MANIPULATION_IMPLEMENTATION before including this header to compile the implementation.
- In all other files, include the header without the macro to get declarations only.

Notes and limitations

- All destination buffers must be large enough; functions do not grow or allocate buffers.
- asm_get_line enforces MAX_LEN_LINE characters (not counting the terminating '\0'). Longer lines cause a fatal error via exit(1).
- asm_strncmp differs from the standard C strncmp: this version returns 1 if equal and 0 otherwise.
- · These functions are not locale-aware unless otherwise noted (isspace is used for whitespace handling).

Definition in file Almog_String_Manipulation.h.

2.1.2 Macro Definition Documentation

2.1.2.1 asm dprintCHAR

Debug print a character expression as "expr = $c\n$ ".

Parameters

expr An expression that yields a character promoted to int.

Definition at line 72 of file Almog_String_Manipulation.h.

2.1.2.2 asm_dprintINT

Debug print an integer expression as "expr = $n\n$ ".

Parameters

expr An expression that yields an int.

Definition at line 79 of file Almog_String_Manipulation.h.

2.1.2.3 asm_dprintSIZE_T

Debug print a size_t expression as "expr = $n\n$ ".

Parameters

| expr | An expression that yields a |
|------|-----------------------------|
| | size_t. |

Definition at line 86 of file Almog_String_Manipulation.h.

2.1.2.4 asm_dprintSTRING

Debug print a C string expression as "expr = value\n".

Parameters

| expr | An expression that yields a pointer to char (const or non-const). |
|------|---|
|------|---|

Definition at line 65 of file Almog_String_Manipulation.h.

2.1.2.5 ASM_MAX_LEN_LINE

```
#define ASM_MAX_LEN_LINE (int)1e3
```

Maximum number of characters read by asm_get_line (excluding the terminating null).

If an input line exceeds this value before encountering ' or EOF, asm_get_line prints an error to stderr and terminates the process with exit(1).

Definition at line 58 of file Almog_String_Manipulation.h.

2.1.2.6 ASM_MAXDIR

```
#define ASM_MAXDIR 100
```

Generic maximum directory length constant (not used by the functions in this header but available to callers).

Definition at line 47 of file Almog String Manipulation.h.

2.1.3 Function Documentation

2.1.3.1 asm_copy_array_by_indesies()

Copy a substring [start, end) from src into target and null-terminate.

Copies characters with indices i = start, start+1, ..., end-1 from src into target, then writes a terminating '\0'.

Parameters

| target | Destination buffer. Must be large enough to hold (end - start) characters plus the null terminator. |
|--------|---|
| start | Inclusive start index within src (0-based). |
| end | Exclusive end index within src (must satisfy end >= start). |
| src | Source string buffer. |

Warning

No bounds checking is performed. The caller must ensure valid indices and sufficient target capacity.

Note

This routine supports in-place "left-shift" usage where target == src and start > 0 (used by asm_get_word_ \leftarrow and_cut).

Definition at line 232 of file Almog_String_Manipulation.h.

Referenced by asm_get_word_and_cut().

2.1.3.2 asm_get_line()

Read a single line from a stream into a buffer.

Reads characters from the FILE stream until a newline ('

') or EOF is encountered. The newline, if present, is not copied. The result is always null-terminated.

Parameters

| fp | Input stream (must be non-NULL). |
|-----|--|
| dst | Destination buffer. Must have capacity of at least MAX_LEN_LINE + 1 bytes. |

Returns

Number of characters stored in dst (excluding the terminating null).

Return values

```
-1 EOF was encountered before any character was read.
```

Note

If the line exceeds MAX_LEN_LINE characters before a newline or EOF, the function prints an error and calls exit(1).

An empty line returns 0 (not -1).

Definition at line 119 of file Almog_String_Manipulation.h.

References ASM MAX LEN LINE.

2.1.3.3 asm_get_next_word_from_line()

Extract the next word from a line without modifying the source.

Skips leading whitespace in src (as determined by isspace), then copies characters into dst until one of the following is seen: the separator, a newline ('

'), or the string terminator ('\0'). The copied word in dst is null-terminated and is never empty on success.

Special case:

• If the very first character in src (at index 0, without leading whitespace) is the separator, '

', or '\0', that single character is returned as a one-character "word".

Parameters

| dst | Destination buffer for the extracted word. Must be large enough to hold the token plus the null |
|-----------|---|
| | terminator. |
| src | Source C string to parse (not modified by this function). |
| seperator | Separator character to stop at (spelling as in the API). |

Returns

The number of characters consumed from src (i.e., the index of the first unconsumed character).

Return values

```
-1 No word was found (e.g., only whitespace before a delimiter or end-of-string).
```

Note

The source buffer is not altered. To both extract and advance/cut the source, see asm_get_word_and_cut.

Definition at line 182 of file Almog_String_Manipulation.h.

Referenced by asm_get_word_and_cut().

2.1.3.4 asm_get_word_and_cut()

Get the next word and cut the source string at that point.

Extracts the next word from src (per asm_get_next_word_from_line semantics) into dst. On success, src is modified in-place to remove the consumed prefix. The new src begins at the stopping character (the separator, newline, or terminator).

Example: For src = "abc,def", separator = ','

- · dst becomes "abc"
- src becomes ",def" (note the leading separator remains)

Parameters

| dst | Destination buffer for the extracted word (large enough for the token and terminating null). |
|-----------|--|
| src | Source buffer. Modified in-place if a word is found. |
| seperator | Separator character to stop at (spelling as in the API). |

Returns

1 if a word was extracted and src adjusted, 0 otherwise.

Definition at line 260 of file Almog_String_Manipulation.h.

References asm_copy_array_by_indesies(), asm_get_next_word_from_line(), and asm_length().

Referenced by main().

2.1.3.5 asm_length()

```
int asm_length ( {\tt char} \, * \, str \,)
```

Compute the length of a null-terminated C string.

Parameters

```
str Null-terminated string (must be non-NULL).
```

Returns

The number of characters before the terminating null byte.

Definition at line 146 of file Almog_String_Manipulation.h.

Referenced by asm_get_word_and_cut(), and asm_str_in_str().

2.1.3.6 asm_str_in_str()

Count occurrences of a substring within a string.

Counts how many times word2search appears in src. Occurrences may overlap.

Parameters

| src | The string to search in (must be null-terminated). |
|-------------|--|
| word2search | The substring to find (must be null-terminated). |

Returns

The number of (possibly overlapping) occurrences found.

Definition at line 285 of file Almog_String_Manipulation.h.

References asm_length(), and asm_strncmp().

2.1.3.7 asm_strncmp()

Compare up to N characters for equality (boolean result).

Returns 1 if the first N characters of s1 and s2 are all equal; otherwise returns 0. Unlike the standard C strncmp, which returns 0 on equality and a non-zero value on inequality/order, this function returns a boolean-like result (1 == equal, 0 == different).

Parameters

| s1 | First string (may be shorter than N). |
|----|--|
| s2 | Second string (may be shorter than N). |
| Ν | Number of characters to compare. |

Returns

1 if equal for the first N characters, 0 otherwise.

Definition at line 310 of file Almog_String_Manipulation.h.

Referenced by asm_str_in_str().

2.2 Almog_String_Manipulation.h

```
00001
00034 #ifndef ALMOG_STRING_MANIPULATION_H_
00035 #define ALMOG_STRING_MANIPULATION_H_
00036
00037 #include <stdio.h>
00038 #include <ctype.h>
00039 #include <stdlib.h>
00040 #include <assert.h>
00041
00047 #define ASM MAXDIR 100
00048
00058 #define ASM_MAX_LEN_LINE (int)1e3
00059
00065 #define asm_dprintSTRING(expr) printf(#expr " = s\n", expr)
00066
00072 #define asm_dprintCHAR(expr) printf(#expr " = %c\n", expr)
00073
00079 #define asm_dprintINT(expr) printf(#expr " = %d\n", expr)
08000
```

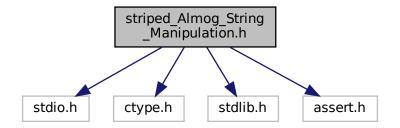
```
00086 #define asm_dprintSIZE_T(expr) printf(#expr " = %zu\n", expr)
00087
00088 int asm_get_line(FILE *fp, char *dst);
00089 int asm_length(char *str);
00090 int asm\_get\_next\_word\_from\_line(char *dst, char *src, char seperator);
00091 void asm_copy_array_by_indesies(char *target, int start, int end, char *src);
00092 int asm_get_word_and_cut(char *dst, char *src, char seperator);
00093 int asm_str_in_str(char *src, char *word2search);
00094 int asm_strncmp(const char *s1, const char *s2, const int N);
00095
00096 #endif /*ALMOG STRING MANIPULATION H */
00097
00098 #ifdef ALMOG_STRING_MANIPULATION_IMPLEMENTATION
00099 #undef ALMOG_STRING_MANIPULATION_IMPLEMENTATION
00100
00101
00119 int asm_get_line(FILE *fp, char *dst)
00120 {
00121
          int i = 0;
00122
          char c;
00123
          while ((c = fgetc(fp)) != '\n' \&\& c != EOF) {
00124
            dst[i] = c;
00125
00126
               i++;
00127
               if (i >= ASM_MAX_LEN_LINE) {
00128
                   fprintf(stderr, "ERROR: line too long\n");
00129
                   exit(1);
              }
00130
00131
          dst[i] = ' \setminus 0';
00132
          if (c == EOF && i == 0) {
00133
          . -- EOF &c
return -1;
}
00134
00135
00136
           return i;
00137 }
00138
00146 int asm_length(char *str)
00147 {
00148
           char c;
00149
           int i = 0;
00150
          while ((c = str[i]) != ' \setminus 0') {
00151
          i++;
00152
00153
00154
          return i++;
00155 }
00156
00182 int asm_get_next_word_from_line(char *dst, char *src, char seperator)
00183 {
          int i = 0, j = 0;
00184
00185
          char c;
00186
00187
          while (isspace((c = src[i]))) {
             i++;
00188
00189
00190
00191
          while ((c = src[i]) != seperator &&
                              c != '\n'&&
c != '\0') {
00192
00193
00194
                                dst[j] = src[i];
00195
                                 i++;
00196
                                 j++;
00197
          }
00198
00199
           if ((c == seperator ||
               c = ' \setminus n' \mid \mid
c = ' \setminus 0' \mid \&\& i == 0 \mid \{
00200
00201
00202
                   dst[j++] = c;
00203
                   i++;
00204
          }
00205
          dst[j] = ' \setminus 0';
00206
00207
          if (j == 0) {
00208
             return -1;
00209
00210
00211
           return i;
00212
00213 }
00214
00232 void asm_copy_array_by_indesies(char *target, int start, int end, char *src)
00233 {
00234
           for (int i = start; i < end; i++) {</pre>
00235
00236
               target[j] = src[i];
00237
               j++;
00238
          }
```

```
00239
          target[j] = ' \setminus 0';
00240 }
00241
00260 int asm\_get\_word\_and\_cut(char *dst, char *src, char seperator)
00261 {
00262
          int last pos:
00264
          if (src[0] == ' \setminus 0') {
              return 0;
00265
00266
          last_pos = asm_get_next_word_from_line(dst, src, seperator);
00267
          if (last_pos == -1) {
00268
00269
              return 0;
00270
00271
          asm_copy_array_by_indesies(src, last_pos, asm_length(src), src);
00272
00273 }
00274
00285 int asm_str_in_str(char *src, char *word2search)
00286 {
00287
          int i = 0, num_of_accur = 0;
00288
          while (src[i] != ' \setminus 0')  {
            if (asm_strncmp(src+i, word2search, asm_length(word2search))) {
00289
00290
                  num_of_accur++;
00291
00292
              i++;
00293
00294
          return num_of_accur;
00295 }
00296
00310 int asm_strncmp(const char *s1, const char *s2, const int N)
00311 {
00312
          int i = 0;
00313
          while (i < N) {</pre>
             if (s1[i] == '\0' && s2[i] == '\0') {
00314
00315
00316
              if (s1[i] != s2[i] || (s1[i] == '\0') || (s2[i] == '\0')) {
00318
                  return 0;
00319
00320
              i++;
00321
00322
          return 1:
00323 }
00324
00325
00326 #endif /*ALMOG_STRING_MANIPULATION_IMPLEMENTATION*/
00327
```

2.3 striped_Almog_String_Manipulation.h File Reference

```
#include <stdio.h>
#include <ctype.h>
#include <stdlib.h>
#include <assert.h>
```

Include dependency graph for striped_Almog_String_Manipulation.h:



Macros

- #define ASM MAXDIR 100
- #define ASM_MAX_LEN_LINE (int)1e3
- #define asm_dprintSTRING(expr) printf(#expr " = %s\n", expr)
- #define asm_dprintCHAR(expr) printf(#expr " = %c\n", expr)
- #define asm_dprintlNT(expr) printf(#expr " = %d\n", expr)
- #define asm_dprintSIZE_T(expr) printf(#expr " = %zu\n", expr)

Functions

- int asm_get_line (FILE *fp, char *dst)
- int asm_length (char *str)
- int asm_get_next_word_from_line (char *dst, char *src, char seperator)
- void asm_copy_array_by_indesies (char *target, int start, int end, char *src)
- int asm_get_word_and_cut (char *dst, char *src, char seperator)
- int asm str in str (char *src, char *word2search)
- int asm_strncmp (const char *s1, const char *s2, const int N)

2.3.1 Macro Definition Documentation

2.3.1.1 asm_dprintCHAR

Definition at line 10 of file striped_Almog_String_Manipulation.h.

2.3.1.2 asm_dprintINT

Definition at line 11 of file striped_Almog_String_Manipulation.h.

2.3.1.3 asm_dprintSIZE_T

Definition at line 12 of file striped Almog String Manipulation.h.

2.3.1.4 asm_dprintSTRING

```
#define asm_dprintSTRING( expr \ ) \ printf(\#expr \ " = \$s\n", \ expr)
```

Definition at line 9 of file striped_Almog_String_Manipulation.h.

2.3.1.5 ASM_MAX_LEN_LINE

```
#define ASM_MAX_LEN_LINE (int)1e3
```

Definition at line 8 of file striped_Almog_String_Manipulation.h.

2.3.1.6 ASM_MAXDIR

```
#define ASM_MAXDIR 100
```

Definition at line 7 of file striped_Almog_String_Manipulation.h.

2.3.2 Function Documentation

2.3.2.1 asm_copy_array_by_indesies()

Definition at line 76 of file striped_Almog_String_Manipulation.h.

Referenced by asm_get_word_and_cut().

2.3.2.2 asm_get_line()

Definition at line 23 of file striped_Almog_String_Manipulation.h.

References ASM_MAX_LEN_LINE.

2.3.2.3 asm_get_next_word_from_line()

Definition at line 50 of file striped Almog String Manipulation.h.

Referenced by asm_get_word_and_cut().

2.3.2.4 asm_get_word_and_cut()

Definition at line 85 of file striped_Almog_String_Manipulation.h.

References asm_copy_array_by_indesies(), asm_get_next_word_from_line(), and asm_length().

2.3.2.5 asm_length()

```
int asm_length ( {\tt char} \ * \ str \ )
```

Definition at line 41 of file striped_Almog_String_Manipulation.h.

Referenced by asm_get_word_and_cut(), and asm_str_in_str().

2.3.2.6 asm_str_in_str()

Definition at line 98 of file striped_Almog_String_Manipulation.h.

References asm_length(), and asm_strncmp().

2.3.2.7 asm_strncmp()

Definition at line 109 of file striped_Almog_String_Manipulation.h.

Referenced by asm str in str().

2.4 striped Almog String Manipulation.h

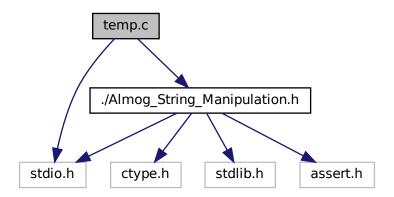
```
00001 #ifndef ALMOG_STRING_MANIPULATION_H_
00002 #define ALMOG_STRING_MANIPULATION_H_
00003 #include <stdio.h>
00004 #include <ctype.h>
00005 #include <stdlib.h>
00006 #include <assert.h>
00007 #define ASM_MAXDIR 100
00008 #define ASM_MAX_LEN_LINE (int)1e3
00010 #define asm_dprintCHAR(expr) printf(#expr " = %c\n", expr)
00011 #define asm_dprintINT(expr) printf(#expr " = %d\n", expr)
00012 #define asm_dprintSIZE_T(expr) printf(#expr " = %zu\n", expr)
00013 int asm get line(FILE *fp, char *dst);
00014 int asm_length(char *str);
00015 int asm_get_next_word_from_line(char *dst, char *src, char seperator);
00016 void asm_copy_array_by_indesies(char *target, int start, int end, char *src);
00017 int asm_get_word_and_cut(char *dst, char *src, char seperator);
00018 int asm_str_in_str(char *src, char *word2search);
00019 int asm\_strncmp (const char *s1, const char *s2, const int N);
00020 #endif
00021 #ifdef ALMOG_STRING_MANIPULATION_IMPLEMENTATION
00022 #undef ALMOG_STRING_MANIPULATION_IMPLEMENTATION
00023 int asm_get_line(FILE *fp, char *dst)
00024 {
00025
          int i = 0:
00026
          char c;
          while ((c = fgetc(fp)) != '\n' && c != EOF) {
00028
               dst[i] = c;
00029
               i++;
               if (i >= ASM_MAX_LEN_LINE) {
    fprintf(stderr, "ERROR: line too long\n");
00030
00031
00032
                   exit(1);
00033
              }
00034
          dst[i] = '\0';
if (c == EOF && i == 0) {
00035
00036
             return -1;
00037
00038
00039
          return i;
00040 }
00041 int asm_length(char *str)
00042 {
          char c;
00043
00044
          int i = 0;
          while ((c = str[i]) != '\0') {
00045
00046
             i++;
00047
00048
          return i++;
00049 }
00050 int asm_get_next_word_from_line(char *dst, char *src, char seperator)
00051 {
00052
          int i = 0, j = 0;
00053
          char c;
00054
          while (isspace((c = src[i]))) {
00055
               i++;
00056
          while ((c = src[i]) != seperator &&
00057
                              c != '\n' & & c != '\0') {
00058
00059
00060
                                dst[j] = src[i];
00061
                                i++;
00062
                                j++;
00063
00064
          if ((c == seperator ||
                c == '\n'||
```

```
c == ' \setminus 0') \&\& i == 0) {
00067
                  dst[j++] = c;
00068
                   i++;
00069
           dst[j] = ' \setminus 0';
00070
          if (j == 0) {
00071
00072
              return -1;
00073
00074
           return i;
00075 }
00076 void asm_copy_array_by_indesies(char *target, int start, int end, char *src)
00077 {
00078
           int j = 0;
for (int i = start; i < end; i++) {</pre>
00079
08000
              target[j] = src[i];
00081
00082
00083
          target[j] = ' \setminus 0';
00084 }
00085 int asm_get_word_and_cut(char *dst, char *src, char seperator)
00086 {
          int last_pos;
if (src[0] == '\0') {
00087
00088
00089
               return 0;
00090
00091
          last_pos = asm_get_next_word_from_line(dst, src, seperator);
00092
          if (last_pos == -1) {
00093
              return 0;
00094
00095
          asm_copy_array_by_indesies(src, last_pos, asm_length(src), src);
00096
           return 1:
00097 }
00098 int asm_str_in_str(char *src, char *word2search)
00099 {
          int i = 0, num_of_accur = 0;
while (src[i] != '\0') {
   if (asm_strncmp(src+i, word2search, asm_length(word2search))) {
00100
00101
00102
                   num_of_accur++;
00104
00105
               i++;
00106
00107
           return num_of_accur;
00108 }
00109 int asm_strncmp(const char *s1, const char *s2, const int N)
00110 {
00111
           int i = 0;
00112
          while (i < N) {
            if (s1[i] == '\0' && s2[i] == '\0') {
00113
00114
                   break:
00115
               if (s1[i] != s2[i] || (s1[i] == '\0') || (s2[i] == '\0')) {
00116
00117
                   return 0;
00118
00119
               i++;
00120
00121
           return 1;
00122 }
00123 #endif
```

2.5 temp.c File Reference

```
#include <stdio.h>
#include "./Almog_String_Manipulation.h"
```

Include dependency graph for temp.c:



Macros

• #define ALMOG_STRING_MANIPULATION_IMPLEMENTATION

Functions

• int main (void)

2.5.1 Macro Definition Documentation

2.5.1.1 ALMOG_STRING_MANIPULATION_IMPLEMENTATION

```
#define ALMOG_STRING_MANIPULATION_IMPLEMENTATION
```

Definition at line 2 of file temp.c.

2.5.2 Function Documentation

2.5.2.1 main()

```
int main (
     void )
```

Definition at line 5 of file temp.c.

References asm_get_word_and_cut().

2.6 temp.c

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