



Release Notes

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Revision History

Version	Date	Description	
V1.24	2007 May	Improvements	
V1.23	2007 Mar	Bug fixes & improvements	
V1.22	2006 Sep	Improvements	
V1.21	2006 Aug	New features & improvements	
V1.20	2006 Jun	New features & improvements	
V1.19	2006 Apr	Improvements	
V1.18	2005 Oct	Bug fixes & improvements	
		First version with release history	
V1.17	2005 Jul	Improvements	
V1.16	2005 Jun	Improvements	
V1.15	2005 May	Improvements	
V1.14	2005 Apr	Improvements	
V1.13	2005 Feb	Improvements	
V1.12	2004 Dec	Improvements	
V1.11	2004 Nov	Improvements	
V1.10	2004 Sep	Improvements	
V1.00	2004 Feb	First release	

Requires the following versions of needed Modules

```
Version 1.24
µC/CPU Version 1.17
Version 1.23
µC/CPU Version 1.16
Version 1.22
µC/CPU Version 1.15
Version 1.21
µC/CPU Version 1.14
Version 1.20
µC/CPU Version 1.14
Version 1.19
µC/CPU Version 1.14
Version 1.18
µC/CPU Version 1.13
Version 1.17
µC/CPU Version 1.12
Version 1.16
µC/CPU Version 1.12
```

New Features

Version 1.24

V1.24-001

Added new CPU-related integer defines:

```
DEF_INT_CPU_NBR_BITS
DEF_INT_CPU_MASK
DEF_INT_CPU_U_MIN_VAL
DEF_INT_CPU_U_MAX_VAL
DEF_INT_CPU_S_MIN_VAL
DEF_INT_CPU_S_MAX_VAL
DEF_INT_CPU_S_MIN_VAL_ONES_CPL
DEF_INT_CPU_S_MAX_VAL_ONES_CPL
```

Version 1.23

N/A

Version 1.22

N/A

Version 1.21

V1.21-001

Added new memory data value macro's:

<pre>MEM_VAL_GET_xxx()</pre>	decode data values from any memory address.
<pre>MEM_VAL_SET_xxx()</pre>	encode data values to any memory address.
MEM_VAL_COPY_GET_xxx()	copy & decode data values from any memory address to any other memory address.
MEM_VAL_COPY_SET_xxx()	copy & encode data values from any memory address to any other memory address.
MEM_VAL_COPY_xxx()	copy data values from any memory address to any other memory address.

Version 1.20

V1.20-001

Added new string functions:

Str_Copy_N() copies a string up to a maximum number of characters.

Str_Cat_N() concatenates two strings up to a maximum number of characters.

Str_Char_N() searches a string up to a maximum number of characters.

Version 1.19

N/A

Version 1.18

N/A

Improvements

Version 1.24

V1.24-001

Added LIB_VERSION to indicate current library module software version number.

V1.24-002

Improved several DEF_BIT_???() macro's to handle overflow boundary conditions.

V1.24-003

Added several LIB_STR_??? common string defines.

Version 1.23

V1.23-001

Removed malloc() & all other references to standard library memory functions.

Version 1.22

N/A

Version 1.21

N/A

Version 1.20

V1.20-001

Improved ARM assembly port files to be compatible for both ARM & Thumb modes.

Version 1.19

N/A

Version 1.18

V1.18-001

Added macro function headers for all lib_def.h macros.

V1.18-002

Improved consistency for all lib_str.c functions.

Changes

Version 1.24

N/A

Version 1.23

N/A

Version 1.22

N/A

Version 1.21

N/A

Version 1.20

V1.20-001

The following macro names in lib_str.h have been changed to comply with standard naming conventions:

```
Is_Alpha()
              changed to Str_IsAlpha()
              changed to Str_IsDigit()
Is_Digit()
Is_Space()
              changed to Str_IsSpace()
Is_Print()
              changed to Str_IsPrint()
              changed to Str_IsUpper()
Is_Upper()
Is_Lower()
              changed to Str_IsLower()
              changed to Str_ToUpper()
To_Upper()
To_Lower()
              changed to Str_ToLower()
Str_To_Long()
                       changed to Str_ToLong()
Str_Format_Print()
                      changed to Str_FmtPrint()
Str_Format_Scan()
                       changed to Str_FmtScan()
```

Version 1.19

V1.19-001

Macros $Str_Format_Print()$ and $Str_Format_Scan()$ in lib_str.h have been corrected to be compatible with some compilers.

Version 1.18

V1.18-001

DEF_BIT_MASK() macro and DEF_BIT_FIELD() macro switched names.

V1.18-002

Str_Char_R() changed name to Str_Char_Last().

Corrections

Version 1.24

N/A

Version 1.23

V1.23-001

ARM assembly port files were not completely compatible for both ARM & Thumb modes (see 'Improvements V1.20-001'). Corrected by using only ARM & Thumb mode instructions.

Version 1.22

N/A

Version 1.21

N/A

Version 1.20

N/A

Version 1.19

N/A

Version 1.18

V1.18-001

Str_Str() incorrectly assigned unsigned string lengths to signed variables. Corrected by assigning string lengths to unsigned variables.

V1.18-002

lib_mem_a.asm did not correctly terminate the memory copy during the Pre_Copy_1 label if no more data octets to copy. Corrected by terminating the memory copy if no more data octets.

Known Problems

Version 1.24

V1.18-001b (Unresolved)

Version 1.23

V1.18-001b (Unresolved)

Version 1.22

V1.18-001a (Unresolved) **V1.18-001b** (Unresolved)

Version 1.21

V1.18-001a (Unresolved) **V1.18-001b** (Unresolved)

Version 1.20

V1.18-001a (Unresolved) **V1.18-001b** (Unresolved)

Version 1.19

V1.18-001a (Unresolved) **V1.18-001b** (Unresolved)

Version 1.18

V1.18-001a

lib_mem.h includes some standard library files and functions. ALL references to standard library files and functions SHOULD be removed once all custom library functions are implemented.

V1.18-001b

lib_str.h includes some standard library files and functions. ALL references to standard library files and functions SHOULD be removed once all custom library functions are implemented.

Limitations

001

Does not support variable argument library functions

Contacts

Micriµm

949 Crestview Circle Weston, FL 33327 USA

+1 954 217 2036

+1 954 217 2037 (FAX)

e-mail: <u>Licensing@Micrium.com</u> WEB: <u>www.Micrium.com</u>