

Release Notes V1.35.00



Revision History

Version	Date	Description
V1.35.00	2011 Jun	New features and improvements
V1.34	2010 Dec	Improvements
V1.33	2010 Oct	Bug fixes and improvements
V1.32	2010 Apr	New ports and improvements
V1.31	2009 Dec	New features, bug fixes, and improvements
V1.30	2009 Jun	New features, bug fixes, and improvements
V1.29	2009 Apr	New features and improvements
V1.28	2009 Jul	New features and improvements
V1.27	2009 Jan	New features, bug fixes, and improvements
V1.26	2008 Nov	New features, bug fixes, and improvements
V1.25	2008 Jul	New features and improvements
V1.24	2007 May	Improvements
V1.23	2007 Mar	Bug fixes and improvements
V1.22	2006 Sep	Improvements
V1.21	2006 Aug	New features and improvements
V1.20	2006 Jun	New features and improvements
V1.19	2006 Apr	Improvements
V1.18	2005 Oct	Bug fixes and 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

Required Modules

Version 1.26

μC/CPU version 1.19

Version 1.35.00 Version 1.25 μC/CPU version 1.27 μC/CPU version 1.18 Version 1.34 Version 1.24 μC/CPU version 1.27 μC/CPU version 1.17 Version 1.33 Version 1.23 μC/CPU version 1.27 μC/CPU version 1.16 Version 1.32 Version 1.22 μC/CPU version 1.22 μC/CPU version 1.15 Version 1.31 Version 1.21 μC/CPU version 1.22 μC/CPU version 1.14 Version 1.30 Version 1.20 μC/CPU version 1.22 μC/CPU version 1.14 Version 1.29 Version 1.19 μC/CPU version 1.22 μC/CPU version 1.14 Version 1.28 Version 1.18 μC/CPU version 1.22 μC/CPU version 1.13 Version 1.27 Version 1.17 μC/CPU version 1.20 μC/CPU version 1.12

Version 1.16

 μ C/CPU version 1.12

New Features

Version 1.35.00

V1.35.00-001

Added DEF_NULL to assign or validate NULL pointer values.

V1.35.00-002

Added new octet defines:

DEF_OCTET_TO_BIT_NBR_BITS
DEF_OCTET_TO_BIT_SHIFT

number of bits to encode/decode octets-to-bits

DEF_OCTET_TO_BIT_MASK

mask value to encode/decode octets-to-bits

V1.35.00-003

Added new bit macros:

DEF_BITxx() create bit mask of specified bit size with specified bit set

DEF_BIT_MASK_xx() shift a bit mask of specified bit size

DEF BIT FIELD xx() create and shift a contiguous bit field of specified bit size

V1.35.00-004

Added new memory data value macros:

MEM_BIG_TO_LITTLE_??() Convert big- endian data values to little-endian data values

MEM_LITTLE_TO_BIG_??() Convert little-endian data values to big- endian data values

MEM ??? TO HOST ??() Convert big-/little-endian data values to host-endian data values

MEM_HOST_TO_???_??() Convert host-endian data values to big-/little-endian data values

MEM_VAL_COPY_GET_INTU_???() copy and decode data values from any memory address to any

other memory address for any sized data values

MEM_VAL_COPY_SET_INTU_???() copy and encode data values from any memory address to any

other memory address for any sized data values

MEM VAL COPY() copy data values from any memory address to any other

memory address for any sized data values

See also 'New Features V1.21-001.

V1.35.00-005

Added new value validation macros:

DEF_CHK_VAL_MIN() validates a value as greater than or equal to a specified minimum value

DEF_CHK_VAL_MAX() validates a value as less than or equal to a specified maximum value

validates a value as greater than or equal to a specified minimum value and less than or equal to a specified maximum value

Version 1.34

N/A

Version 1.33

V1.33-001

Added LIB_STR_CFG_FP_MAX_NBR_DIG_SIG to (optionally) configure the maximum number of floating-point number significant digits to format/parse. See also 'Improvements V1.33-003'.

Version 1.32

N/A

Version 1.31

V1.31-001

Added new Boolean-related defines:

DEF_INVALID
DEF_VALID

V1.31-002

Added new string functions:

Str_Char_Last_N() searches a string for a character starting from the end of the

string limited to a maximum number of characters

Str Str N() searches a string for a sub-string limited to a maximum number

of characters

See also 'New Features V1.20-001, V1.26-003, & V1.30-004'.

V1.30-001

Added new template configuration file lib_cfg.h.

V1.30-002

Added LIB_MEM_CFG_OPTIMIZE_ASM_EN to enable/disable assembly-optimized memory functions. See also 'Changes V1.30-001'.

V1.30-003

Added new math module functions:

Math_Init() initializes mathematical library

Math Rand() generates a (pseudo-) random number

Math RandSeed() generates the next (pseudo-) random number after a specified

seed value

Math RandSetSeed() sets the next (pseudo-) random number seed value

V1.30-004

Added new string functions:

Str Len N() calculates a string's length limited to a maximum number of characters

See also 'New Features V1.20-001, V1.26-003, & V1.31-001'.

Version 1.29

V1.29-001

Added new time-related defines:

DEF_TIME_NBR_DAY_PER_WK
DEF TIME NBR DAY PER YR

DEF_TIME_NBR_DAY_PER_YR_LEAP

DEF TIME NBR HR PER WK

DEF TIME NBR HR PER YR

DEF TIME NBR HR PER YR LEAP

DEF_TIME_NBR_MIN_PER_WK

DEF TIME NBR MIN PER YR

DEF TIME NBR MIN PER YR LEAP

DEF_TIME_NBR_SEC_PER_WK

DEF TIME NBR SEC PER YR

DEF TIME NBR SEC PER YR LEAP

V1.28-001

Added LIB_MEM_CFG_HEAP_BASE_ADDR to (optionally) specify the heap memory base address.

Version 1.27

V1.27-001

Added new memory allocation function:

Mem PoolClr()

clear a memory pool

See also 'Changes V1.26-001' & 'New Features V1.25-001'.

Version 1.26

V1.26-001

Added new memory allocation function:

Mem HeapAlloc()

get memory from the heap

See also 'Changes V1.26-001' & 'New Features V1.25-001'.

V1.26-002

Added new ASCII module functions and macros:

ASCII IsDigOct()

indicates whether a character is an octal digit

ASCII IS DIG OCT()

See also 'New Features V1.25-002'.

V1.26-003

Added new string compare functions:

Str_CmpIgnoreCase()

compares two strings, ignoring case

Str_CmpIgnoreCase_N()

compares two strings, ignoring case, up to a maximum number

of characters

See also 'New Features V1.20-001, V1.30-004, & V1.31-001'.

V1.26-004a

Added new string format functions:

Str_FmtNbr_Int32U()

formats an unsigned number into a string

Str FmtNbr Int32S()

formats a signed number into a string

V1.26-004b

Added new string parse functions:

Str_ParseNbr_Int32U() parses an unsigned number from a string
Str_ParseNbr_Int32S() parses a signed number from a string

Version 1.25

V1.25-001

Added new memory allocation functions:

Mem_PoolCreate() create a memory pool

Mem_PoolBlkGet() get a memory block from a memory pool
Mem_PoolBlkFree() free a memory block back to a memory pool

See also 'Changes V1.26-001'.

V1.25-002

Added new ASCII module functions and macros:

ASCII_IsAlpha () indicates whether a character is alphabetic

ASCII_IS_ALPHA()

ASCII_IsAlnum() indicates whether a character is alphanumeric

ASCII_IS_ALNUM() (see also 'Changes V1.27-001')

ASCII IsLower() indicates whether a character is lowercase

ASCII IS LOWER()

ASCII_IsUpper() indicates whether a character is uppercase

ASCII IS UPPER()

ASCII IsDig() indicates whether a character is a decimal digit

ASCII_IS_DIG()

ASCII IsDigHex() indicates whether a character is a hexadecimal digit

ASCII_IS_DIG_HEX()

ASCII IsBlank() indicates whether a character is blank

ASCII IS BLANK()

ASCII IsSpace() indicates whether a character is a space

ASCII IS SPACE()

```
ASCII IsPrint()
                                           indicates whether a character is printable
ASCII IS PRINT()
                                           indicates whether a character is graphic
ASCII IsGraph()
ASCII_IS_GRAPH()
ASCII IsPunct()
                                           indicates whether a character is punctuation
ASCII_IS_PUNCT()
                                           indicates whether a character is a control
ASCII IsCtrl()
ASCII_IS_CTRL()
ASCII_ToLower()
                                           converts uppercase to lowercase
ASCII_TO_LOWER()
ASCII_ToUpper()
                                           converts lowercase to uppercase
ASCII_TO_UPPER()
ASCII_Cmp()
                                           compares two characters (case insensitive)
See also 'Changes V1.25-001'.
```

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

V1.21-001

Added new memory data value macros:

MEM_VAL_GET_???() decode data values from any memory address
MEM_VAL_SET_???() encode data values to any memory address

MEM_VAL_COPY_GET_???() copy and decode data values from any memory address to any

other memory address

MEM VAL COPY SET ???() copy and encode data values from any memory address to any

other memory address

MEM_VAL_COPY_???() copy data values from any memory address to any other

memory address

See also 'New Features V1.35.00-004'.

Version 1.20

V1.20-001

Added new string functions:

Str_Copy_N() copies a string limited to a maximum number of characters

Str Cat N() concatenates two strings limited to a maximum number of characters

Str_Char_N() searches a string for a character limited to a maximum number

of characters

See also 'New Features V1.26-003, V1.30-004, & V1.31-001'.

Version 1.19

N/A

Version 1.18

Improvements

Version 1.35.00

V1.35.00-001

Updated $\mu\text{C/LIB}$'s CERT-C and MISRA-C compliance:

V1.35.00-001a1

Added 'u' qualifier back to certain unsigned integer constants. This reverts the removal of all unsigned integer constants, requiring instead that unsigned constants used in signed expressions must be cast to appropriate signed data types. See also 'Improvements V1.34-001b & V1.31-001a1'.

V1.35.00-001a2

Removed 'L' qualifier from certain long integer constants. This reverts the return of certain long integer constants. See also 'Improvements V1.33-001b & V1.31-001a2'.

V1.35.00-001b

Modified DEF_BIT_IS_CLR() and DEF_BIT_IS_SET_ANY() to explicitly test masked values for zero. See also 'Changes V1.35.00-001b'.

V1.35.00-002

Modified MEM_VAL_SET_xxx() to cast bit mask to appropriate integer data type size.

V1.35.00-003

Refactored Mem PoolBlkFree() to validate memory block address before validating if the memory pool is full.

V1.35.00-004

Modified the following functions to invalidate len_max for non-positive values:

```
Str_Cat_N()
Str_Cmp_N()
Str_CmpIgnoreCase_N()
Str_Char_N()
Str_Char_Last_N()
Str_Str_N()
```

V1.35.00-005

Modified Str_FmtNbr_Int32() to consistently compare decimal digit values for less than 10 versus less than or equal to 9.

V1.34-001

Updated $\mu\text{C/LIB}$'s CERT-C and MISRA-C compliance:

V1.34-001a

Removed the following standard library headers from being #include'd in lib str.h:

```
<ctype.h>
<errno.h>
<limits.h>
<stdio.h>
<stdlib.h>
```

V1.34-001b

Removed 'u' qualifier from certain integer constants. This reverts a previously implemented improvement only for certain integer constants that may be used in both signed and unsigned expressions. See also 'Improvements V1.31-001a1'.

V1.34-001c

Added const modifier to all appropriate API function pointer arguments. See also 'Changes V1.34-001'.

V1.34-002

Modified the following functions to reconfigure any optional NULL return pointers to point to an unused local variable in order to remove NULL pointers from scope:

```
Mem_HeapAlloc()
Mem_PoolCreate()
Str_ParseNbr_Int32()
```

Version 1.33

V1.33-001

Updated µC/LIB's CERT-C and MISRA-C compliance:

V1.33-001a

Modified functions to trap NULL 'p err' pointers with µC/CPU's new CPU SW EXCEPTION() macro.

V1.33-001b

Added 'L' qualifier to certain long integer constants. This reverts a previously incorrect assumption about certain integer data type and constant promotions. See also 'Improvements V1.31-001a2'.

V1.33-001c

Removed Str IsPrint() and Str ToLong() standard library string macros.

V1.33-002

Modified Str_Copy_N() to allow copies of 0 size. See also 'Changes V1.33-002'.

V1.33-003

Modified Str_FmtNbr_32() to limit the maximum number of floating-point number significant digits to format. See also 'New Features V1.33-001'.

V1.33-004

Modified Str_FmtNbr_32() and Str_FmtNbr_Int32() to always prepend possible negative sign immediately prior to the formatted number's (nbr) most significant digit if lead character (lead_char) is not an alphanumerical digit; otherwise, prepends possible negative sign prior to any alphanumerical lead characters.

V1.33-005

Improved the following functions to check for heap or segment memory request overflows:

```
Mem_HeapAlloc()
Mem_PoolCreate()
Mem_PoolSegCalcTotSize()
Mem_PoolSegAlloc()
```

V1.33-006

Added 64-bit integer #define's in lib def.h.

Version 1.32

V1.32-001

Updated µC/LIB's CERT-C and MISRA-C compliance:

V1.32-001a

Encapsulated all macros defined as code blocks within do..while(0) conditions.

V1.32-002

Removed Mem_PoolSegAlloc()'s critical sections since Mem_PoolSegAlloc() is always called with critical sections already acquired.

Version 1.31

V1.31-001

Updated µC/LIB's CERT-C and MISRA-C compliance:

V1.31-001a1

Appended unsigned 'u' qualifier to all unsigned integer constants.

V1.31-001a2

Removed redundant 'L' qualifier from all long integer constants.

V1.31-001b

Replaced all instances of '???' comments with '&&&' (to avoid possible usage of C trigraphs).

V1.31-001c

Refactored the following functions to copy any function arguments into local variables before modifying:

```
Mem_HeapAlloc()
Mem_PoolCreate()

Str_Len_N()
Str_Copy_N()
Str_Cat_N()
Str_Cmp_N()
Str_CmpIgnoreCase_N()
Str_Char_N()
```

V1.31-002

Improved the following string functions to call their corresponding length-limited functions:

```
Str_Char_Last() calls Str_Char_Last_N()
Str_Str() calls Str_Str_N()
```

See also 'New Features V1.31-002' & 'Improvements V1.26-001'.

V1.31-003

Improved the following functions to terminate, and return errors when possible, if any strings point or overlap with the NULL address (i.e. the terminating NULL character is not found prior to the string pointer overflowing to the NULL address):

```
Str_Copy_N()
Str_Cat_N()
Str_Char_N()
Str_Char_Last_N()
Str_Str_N()
```

See also 'Corrections V1.31-001'.

Version 1.30

V1.30-001

Improved the following bit macros to be called from within conditional expressions:

```
DEF_BIT_SET()
DEF BIT CLR()
```

Version 1.29

V1.29-001

Improved the configuration of optional memory allocation argument checking.

V1.28-001

Replaced all 'cpu sr' local variable declarations with μ C/CPU's new CPU SR ALLOC() macro.

Version 1.27

N/A

Version 1.26

V1.26-001

Improved the following string functions to call their corresponding length-limited functions:

```
Str_Copy() calls Str_Copy_N()
Str_Cat() calls Str_Cat_N()
Str_Cmp() calls Str_Cmp_N()
Str_Char() calls Str_Char_N()
```

See also 'New Features V1.20-001' & 'Improvements V1.31-002'.

V1.26-002a

Improved unsigned integer macro definitions by explicitly declaring unsigned constant.

V1.26-002b

Improved signed integer macro definitions by avoiding twos-complement arithmetic underflow.

Version 1.25

N/A

Version 1.24

V1.24-001

Added LIB VERSION to indicate current library module software version number.

V1.24-002

Improved several DEF BIT ???() macros to handle overflow boundary conditions.

V1.24-003

Added several LIB STR_??? common string defines.

Version 1.23

V1.23-001

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

N/A

Version 1.21

N/A

Version 1.20

V1.20-001

Improved ARM assembly port files to be compatible for both ARM and 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 1.35.00

```
V1.35.00-001a
```

Modified DEF_BIT_IS_SET() and DEF_BIT_IS_CLR() to return DEF_NO for NULL masks (i.e., masks of value 0).

V1.35.00-001b

Modified DEF_BIT_IS_CLR(), DEF_BIT_IS_SET_ANY(), and DEF_BIT_IS_CLR_ANY() to test masked values with equality (instead of inequality) to zero or specified mask. See also 'Improvements V1.35.00-001b'.

Version 1.34

V1.34-001

Modified the following functions to add the const modifier to all appropriate pointer arguments:

```
Mem Copy()
Mem_Cmp()
Str Len()
Str_Len_N()
Str_Copy()
Str Copy N()
Str_Cat()
Str_Cat_N()
Str Cmp()
Str_Cmp_N()
Str CmpIgnoreCase()
Str CmpIgnoreCase N()
Str Char()
Str_Char_N()
Str Char Last()
Str_Char_Last_N()
Str_Str()
Str_Str_N()
Str_ParseNbr_Int32U()
Str_ParseNbr_Int32S()
```

V1.34-002

Modified Mem_HeapAlloc() and Mem_PoolCreate() to invalidate 0 (zero) as a valid value for arguments align and blk_align, respectively, which defaults to no alignment. Only a positive number of octets that specify the word boundary alignment are validated.

V1.34-003a

Modified the following functions to format an invalid string for any invalid arguments, error conditions, or if the number to format (nbr) has more significant integer digits than the number of digits to format (nbr_dig):

```
Str_FmtNbr_Int32U()
Str_FmtNbr_Int32S()
Str FmtNbr 32()
```

The invalid string is formatted with nbr dig and nbr dp number of question marks ('?').

V1.34-003b

Whenever an invalid string is formatted for any reason, string format functions also return a NULL pointer.

V1.34-004

Modified the following functions to invalidate any lead character (lead_char) that is a valid number digit with the exception of zero ('0'):

```
Str_FmtNbr_Int32U()
Str_FmtNbr_Int32S()
Str FmtNbr 32()
```

Version 1.33

V1.33-001

Modified Mem PoolBlkGet () to invalidate memory requests of 0 size.

V1.33-002

Modified Str_Copy_N() to allow copies of 0 size. See also 'Improvements V1.33-002'.

Version 1.32

N/A

Version 1.31

N/A

Version 1.30

V1.30-001

Replaced assembly-optimized configuration from generic uC_CFG_OPTIMIZE_ASM_EN to library-specific LIB MEM CFG OPTIMIZE ASM EN. See also 'New Features V1.30-002'.

Version 1.29

N/A

Version 1.27

V1.27-001

Renamed the following lib_ascii.h macros and functions:

```
ASCII_IsAlnum() renamed to ASCII_IsAlphaNum()
ASCII_IS_ALNUM() renamed to ASCII_IS_ALPHA_NUM()
```

V1.27-002

Modified Str_FmtNbr_???() leading character parameter from a Boolean ('lead_zeros') that specified whether leading zeros were prepended to the formatted number string when necessary, to the desired ASCII character ('lead_char') to prepend to the formatted number string:

```
CPU CHAR *Str FmtNbr Int32U(CPU INT32U
                                              nbr,
                              CPU INT08U
                                             nbr dig,
                              CPU INTO8U
                                             nbr base,
                              CPU CHAR
                                              lead char,
                              CPU BOOLEAN
                                              lower_case,
                              CPU BOOLEAN
                                             nul,
                              CPU CHAR
                                             *pstr);
CPU CHAR *Str FmtNbr Int32S(CPU INT32S
                                             nbr,
                              CPU INTO8U
                                             nbr dig,
                              CPU INTO8U
                                             nbr base,
                              CPU CHAR
                                              lead char,
                                             lower case,
                              CPU BOOLEAN
                              CPU BOOLEAN
                                             nul,
                              CPU CHAR
                                             *pstr);
CPU CHAR *Str FmtNbr 32
                             (CPU FP32
                                             nbr,
                              CPU INTO8U
                                             nbr dig,
                              CPU_INT08U
                                             nbr_dp,
                                              lead char,
                              CPU CHAR
                              CPU BOOLEAN
                                             nul,
                              CPU CHAR
                                             *pstr);
```

V1.26-001

Changed memory pool configuration to memory allocation configuration — LIB_MEM_CFG_POOL_EN to LIB_MEM_CFG_ALLOC_EN.

V1.26-002

Changed the following lib mem.h error codes:

```
LIB MEM ERR INVALID ADDR changed to LIB MEM ERR INVALID BLK ADDR
```

V1.26-003

Changed the following lib_def.h macro constants:

```
DEF_INACTIVE redefined to 0
DEF ACTIVE redefined to 1
```

Version 1.25

V1.25-001

The following macros in lib_str.h have been deprecated and replaced with new macros and functions in lib_ascii.h:

```
replaced with ASCII_IsAlpha() / _IS_ALPHA()
Str IsAlpha()
Str IsDigit()
                 replaced with ASCII_IsDig() / _IS_DIG()
                 replaced with ASCII_IsSpace() / _IS_SPACE()
Str IsSpace()
                 replaced with ASCII_IsPrint() / _IS_PRINT()
Str IsPrint()
                 replaced with ASCII IsUpper() / IS UPPER()
Str IsUpper()
Str IsLower()
                 replaced with ASCII IsLower() / IS LOWER()
                 replaced with ASCII ToUpper() / TO UPPER()
Str ToUpper()
                 replaced with ASCII ToLower() / TO LOWER()
Str ToLower()
```

See also 'New Features V1.25-002'.

Version 1.24

N/A

Version 1.23

N/A

Version 1.22

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()
Is Digit()
             changed to Str IsDigit()
             changed to Str_IsSpace()
Is_Space()
Is_Print()
             changed to Str_IsPrint()
             changed to Str_IsUpper()
Is Upper()
             changed to Str IsLower()
Is Lower()
To Upper()
             changed to Str ToUpper()
             changed to Str_ToLower()
To_Lower()
Str To Long()
                      changed to Str ToLong()
Str Format Print()
                      changed to Str FmtPrint()
                      changed to Str_FmtScan()
Str_Format_Scan()
```

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
Renamed Str_Char_R() to Str_Char_Last().
```

Corrections

Version 1.35.00

N/A

Version 1.34

N/A

Version 1.33

V1.33-001

Str_Char_N() incorrectly returned a pointer to the search character even if its first occurrence was (len_max + 1) characters into the search string. Fixed by always returning a pointer to NULL string if the search character is not found in the search string within the first 'len_max' characters.

Version 1.32

N/A

Version 1.31

V1.31-001

Refactored the following functions to fully comply with their standard library equivalents (see also 'Improvements V1.31-003'):

V1.31-001a

Str_Copy_N() incorrectly always appended a terminating NULL character to the destination string, regardless of the specified maximum number of characters to copy. Fixed by only copying the source string's terminating NULL character if available within the specified maximum number of characters to copy.

V1.31-001b

Str_Str_N() incorrectly returned a pointer to the string's terminating NULL character if the search string was a zero-length NULL string. Fixed by returning a pointer to the string if the search string is a zero-length NULL string.

Version 1.30

N/A

Version 1.29

N/A

Version 1.27

V1.27-001

Str_ParseNbr_Int32() failed to always set negative sign ('neg') during validation. Fixed by always setting 'neg' for all conditions.

Version 1.26

V1.26-001

Mem_PoolCreate() incorrectly calculated the number of additional octets required to successfully allocate all requested memory (returned by 'p_octets_reqd') for certain fault conditions. Fixed by calculating and returning the actual additional octets required to successfully allocate all requested memory for all error/fault conditions.

Version 1.25

N/A

Version 1.24

N/A

Version 1.23

V1.23-001

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

Version 1.22

N/A

Version 1.21

N/A

Version 1.20

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 1.35.00

Version 1.34

Version 1.33

Version 1.32

Version 1.31

Version 1.30

Version 1.29

Version 1.28

Version 1.27

Version 1.26

Version 1.25

Version 1.24

Version 1.23

V1.18-001b (Unresolved)

Version 1.22

Version 1.21

Version 1.20

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

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