

Subject : Conversion Tools

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Revision History

00:00 Initial Release

The routines in the Conversion Tools are a set of routines that do conversions of integers of 2 and 4 bytes and will convert them into a string of characters of a set length representing a hexadecimal or decimal value. There are a set of routines that will take a string of characters of set length and convert it to a hexadecimal or decimal value. Both set of routines will return a flag to indicate if an overflow has occurred or not.

The overflow flag will indicate one of three things:

1. Will return a 128 if the length of the output string or the length of the output value is not large enough.
2. The actual length of the output string or value.

INTEGER TO HEXADECIMAL CONVERSIONS

INT2HEX

This routine takes a 2 byte integer and will convert it into a string of characters with a Maximum length that represent the hexadecimal value. It will return a flag to indicate if an overflow has occurred or not.

Parameter List:

Input	LongWord	; Pointer to data
Input	LongWord	; Pointer to output text
Input	word	; length of output text
Output	word	; Overflow flag

INT4HEX

This routine takes a 4 byte integer and will convert it into a string of characters with a maximum length that represent the hexadecimal value. It will return a flag to indicate if an overflow has occurred or not.

Parameter List:

Input	LongWord	; Pointer to data
Input	LongWord	; Pointer to output text
Input	Word	; length of output text
Output	Word	; Overflow flag

HEXADECIMAL STRING TO INTEGER CONVERSIONS

HEXINT2

This routine takes a string of hexadecimal characters with a maximum length and will convert it into a 2 byte integer that represent the hexadecimal value. It will return a flag to indicate if an overflow has occurred or not.

Parameter List:

Input	LongWord	; Pointer to output data
Input	LongWord	; Pointer to input text
Input	Word	; length of input text
Output	Word	; Overflow flag

HEXINT4

This routine takes a string of hexadecimal characters with a maximum length and will convert it into a 4 byte integer that represent the hexadecimal value. It will return a flag to indicate if an overflow has occurred or not.

Parameter List:

Input	LongWord	; Pointer to output data
Input	LongWord	; Pointer to input text
Input	Word	; length of input text
Output	Word	; Overflow flag

INTEGER TO DECIMAL CONVERSIONS

INT2DEC

This routine takes a 2 byte integer and will convert it into a string of characters with a maximum length that represent the decimal value. It will return a flag to indicate if an overflow has occurred or not.

Parameter List:

Input	LongWord	; Pointer to data
Input	LongWord	; Pointer to output text
Input	Word	; length of output text
Output	Word	; Overflow flag

INT4DEC

This routine takes a 4 byte integer and will convert it into a string of characters with a maximum length that represent the decimal value. It will return a flag to indicate if an overflow has occurred or not.

Parameter List:

Input	LongWord	; Pointer to data
Input	LongWord	; Pointer to output text
Input	Word	; length of output text
Output	Word	; Overflow flag

DECIMAL STRING TO INTEGER CONVERSIONS

DECINT2

This routine takes a string of decimal characters with a maximum length and will convert it into a 2 byte integer that represent the decimal value. It will return a flag to indicate if an overflow has occurred or not.

Parameter List:

Input	LongWord	; Pointer to output data
Input	LongWord	; Pointer to input text
Input	Word	; length of input text
Output	Word	; Overflow flag

DECINT4

This routine takes a string of decimal characters with a maximum length and will convert it into a 4 byte integer that represent the decimal value. It will return a flag to indicate if an overflow has occurred or not.

Parameter List:

Input	LongWord	; Pointer to output data
Input	LongWord	; Pointer to input text
Input	Word	; length of input text
Output	Word	; Overflow flag