

Documentation for the strings module

This module contains a collection of string routines. The routines are similar to some of the those in the Standard C strings library.

This module conforms to the conventions described in

The subroutines in this module cannot be called from a high-level language (like C); they can only be invoked from assembler.

To use any of these routines, link **strings.o**.

*These routines have **not** been tested extensively. Use at your own risk!*

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Summary

strlen	Determines the length of a null-terminated string.
strcpy	Copies a null-terminated string.
strrev	Reverses a string in place.

Details

strlen

Determines the length of a null-terminated string. If the string is less than 256 characters in length, the correct length is returned in Accumulator B and the Carry bit in the Condition Code register is cleared. Otherwise, the C bit is set.

Since: 1.0

Parameters:

Register X -- the starting address of the string

Returns:

AccB -- the length of the string (if less than 256 characters).

CC -- Carry bit Set if length > 255; else Cleared

Side effects:

none

Examples:

The following shows an elementary use of strlen.

```
msg: .asciz "Hello world";
....
ldx #msg
jsr strlen ;on return B <-- 11; Carry is clear
bcs tooBig
```

strcpy

Copies a null-terminated string. The string to be copied is passed in IX and the address of the destination is IY.

Parameters:

IX starting address of source string

IY starting address of destination string

Returns:

nothing

Side effects:

none

strrev

Reverses a string in place. The IX register points to a null-terminated string. The same string is reversed in place (not copied). If the string is more than 255 characters in length, the results are unpredictable.

Examples:

The string "abcd" will be reversed to the string "dcba".

Parameters:

IX--starting address of the string to be reversed

Returns:

nothing

Side effects:

Condition Code register (CC) modified.

Since: 1.0

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