WORD_AS_STRING

March 8, 2022   8:56 PM

File   Edit   View   Project   Build   Online   Debug   Tools   Window   Help

PLC [RPi202_LAB: PLC Logic]

Devices

- 20220308 RPi1x4 (DST)
  - PFC200_LAB (CODESYS Control for PFC200 SL
  - PFC200_TEST (CODESYS Control for PFC200 S
  - RPi102_HOME (CODESYS Control for Raspber
    - PLC Logic
      - RPi1
        - 000 TechNotes
        - 030 TIMING
        - 040 DATATYPES
        - 050 FUNCTION BLOCKS
        - 060 FUNCTIONS
        - 095 CodeEx
          - 51x1 LIMIT
          - 61x1 BYTES
          - 61x2 HEXASCII
            - CExASCII (PRG)
          - _MAINx095 (PRG)
        - 100 TEST
        - 102 RPi
        - 800 NAV LOGIC
        - 900 SUBMENU
        - 950 SCADA
        - gvl
        - ImagePool
        - Library Manager
        - Task Configuration
        - subMenuList
        - Visualization Manager
        - RPi1_Codesys
    - SoftMotion General Axis Pool
    - I²C
    - GPIOs_A_B (GPIOs A/B)
    - Onewire
    - Camera device

CExASCII | Library Manager

```
1    PROGRAM CExASCII
2    VAR
3
4        inByte        :   BYTE;
5        outHexAscii   :   WORD;
6
7        inWord        :   WORD;
8        outByte       :   BYTE;
9
10       iWord         :   WORD;
11       oString       :   STRING;
12
13
14   END_VAR
15
```

```
1
2
3    (* Converts one byte of binary code into one word in HEX code representing its ASCII value *)
4    outHexAscii := UTIL.BYTE_TO_HEXinASCII(inByte);
5
6
7    (* Converts one word in HEX code representing its ASCII value into one byte of binary code *)
8    outByte      := UTIL.HEXinASCII_TO_BYTE(inWord);
9
10
11   (* Converts one word into its ASCII string representation *)
12   oString := WORD_AS_STRING(iWord,FALSE);
13
```

Properties

Filter   Sort by
Sort order

Property

100 %

Messages - Total 1 error(s), 0 warning(s), 0 message(s)

Library Manager   1 error(s)   0 warning(s)   0 message(s)

Description	Project	Object	Position

Description

Last build: 0 0   Precompile ✓   Project user: (nobody)

File   Edit   View   Project   Build   Online   Debug   Tools   Window   Help   Visualization

PLC [RPi202_LAB: PLC Logic]

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          - +templates
          - HMIx00_BOOT
          - HMIx11_MAIN
          - HMIx13_LOGIC
          - HMIx21_TIME
          - HMIx51_LIMITS
          - HMIx61_BITS
            - HMIx61_BYTES
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Devices   POUs   Raspberry Pi

CExASCII | Library Manager

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100 %

TAB61x2

TAB61x2_AS

BINARY TO HEX ASCII

INPUT BYTE   %s   %X
OUTPUT WORD   %s   %X

HEX ASCII TO BINARY

INPUT WORD   %s   %X
OUTPUT BYTE   %s   %X

WORD_AS_STRING

hex: %X   **%s**

100 %

Messages - Total 1 error(s), 0 warning(s), 0 message(s)

Library Manager | 1 error(s)   0 warning(s)   0 message(s)

Description   Project   Object

Properties

Filter   Sort by   Sort order   Advanced

Property	Value
Element name	GenElemInst_428
Type of element	Spin Box
Position	
X	18
Y	244
Width	70
Height	32
Variable	CExASCII.iWord
Number format	
Interval	1
Text properties	
Color variables	
State variables	
Absolute movement	
Input configuration	
OnMouseDown	Configure...
Write Variable	Variable : CExASCII.iWord, InputType : Default, Min :...
Toggle	
Variable	
Tap	
Access rights	Not set. Full rights.

Write a Value to a variable using a editbox for input.

Visualization Toolbox   Properties

Last build: ⊗ 0 ⊙ 0   Precompile ✓   Project user: (nobody)

ENG   9:04 PM

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      - ImagePool

Devices | POUs | Raspberry Pi

CExASCII | Library Manager | **TAB61x2**

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TAB61x2_AS

BINARY TO HEX ASCII

INPUT BYTE   %s   %X
OUTPUT WORD   %s   %X

HEX ASCII TO BINARY

INPUT WORD   %s   %X
OUTPUT BYTE   %s   %X

WORD_AS_STRING

%s

hex: %X

100 %

Properties

Filter | Sort by | Sort order | Advanced

Property	Value
Element name	GenElemInst_430
Type of element	Rectangle
Position	
X	17
Y	288
Width	90
Height	20
Angle	0
Colors	
Use gradient color	☐
Gradient setting	linear, Black, White
Appearance	
Texts	
Text	hex: %X
Tooltip	
Text properties	
Absolute movement	
Relative movement	
Text variables	
Color variables	
State variables	
Input configuration	
OnMouseDown	Configure...
Write Variable	Variable : , InputType : Default, Min : , Max : , Dialog...
Toggle	
Variable	
Tap	
Access rights	Not set. Full rights.

Write a Value to a variable using a editbox for input.

Messages - Total 1 error(s), 0 warning(s), 0 message(s)

Library Manager | 1 error(s) | 0 warning(s) | 0 message(s)

Description   Project   Object

Last build: 0 | 0   Precompile ✔   Project user: (nobody)

ENG 9:05 PM

File Edit View Project Build Online Debug Tools Window Help Visualization

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Devices | POUs | Raspberry Pi

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INPUT BYTE   %s   %X
OUTPUT WORD   %s   %X

HEX ASCII TO BINARY

INPUT WORD   %s   %X
OUTPUT BYTE   %s   %X

WORD_AS_STRING

hex: %X   **%s**

100 %

Properties

Filter | Sort by | Sort order | Advanced

Property	Value
Element name	GenElemInst_414
Type of element	Rectangle
Position	
X	136
Y	267
Width	75
Height	40
Angle	0
Colors	
Use gradient color	☐
Gradient setting	linear, Black, White
Appearance	
Texts	
Text	%s
Tooltip	
Text properties	
Absolute movement	
Relative movement	
Text variables	
Text variable	CExASCII.oString
Tooltip variable	
Color variables	
State variables	
Input configuration	
Access rights	Not set. Full rights.

Variables to be displayed within the text or tooltip of this element

Messages - Total 1 error(s), 0 warning(s), 0 message(s)

Library Manager | 1 error(s) | 0 warning(s) | 0 message(s)

Description | Project | Object

Visualization Toolbox | Properties

Last build: 0 0   Precompile ✓   Project user: (nobody)

WED 9 MAR 2022
21 : 07 : 36
RPi1 44.9 degC

BYTES | HEXASCII

TAB61x2_ASCII

BINARY TO HEX ASCII
0

INPUT BYTE	0	0
OUTPUT WORD	12336	3030

HEX ASCII TO BINARY
0

INPUT WORD	0	0
OUTPUT BYTE	0	0

WORD_AS_STRING
38

&

hex: 26

SYSTEM INFO

Time Since Boot	Time Since Download
☐ dst	ms: 73
sec: 57	sec: 2
min: 17	min: 17
hrs: 0	hrs: 0
days: 0	days: 0

System ▼

6	<<	BITS&BYTES					>>

6.1	

WED 9 MAR 2022
21 : 09 : 27
RPi1 44.9 degC

| BYTES | HEXASCII |

System ▼

TAB61x2_ASCII

| 0 ▲▼ | **BINARY TO HEX ASCII** |

INPUT BYTE   0   0
OUTPUT WORD 12336   3030

| 0 ▲▼ | **HEX ASCII TO BINARY** |

INPUT WORD   0   0
OUTPUT BYTE 0   0

| 42 ▲▼ | **WORD_AS_STRING** |

*

hex: 2A

SYSTEM INFO

Time Since Boot	Time Since Download
☐ dst	ms: 81
sec: 47	sec: 52
min: 19	min: 18
hrs: 0	hrs: 0
days: 0	days: 0

| 6 ▲▼ | << | BITS&BYTES | | | | | >> |

| 6.1 | |