Sommario

VC10Cr32Init

V = *Variable*

C = *Calculation*

The VC10Cr32Init function is part of a collection of functions to calculate the CRC of a sequence of data. The VC10Cr32Init function need to initialize data and data structures are involved in the calculation. Other functions that are part of the collection are:

VC10Cr32Beg Beginning of the procedure

VC10Cr32Udt Update of the procedure

VC10Cr32Calc Calculation procedure

IMPLEMENTATIONS

VC10Cr32Init (crc32arTab, crc32Value)

Initializes the array of at least 256 elements that contains the parameters for the calculation of the CRC and the CRC value.

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
OUT	ARRGBL	crc32arTab	L	Array of at least 256 elements containing the table of parameters to calculate the CRC.
OUT	GLOBAL	crc32Value	L	Variable to be initialized to contain the value of the CRC.

VC10Cr32Beg (crc32arTab, crc32Value)

Assign the initial value of the CRC

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	ARRGBL	crc32arTab	L	Array of at least 256 elements containing the table of parameters to calculate the CRC.
OUT	GLOBAL	crc32Value	L	Variable used to hold the value of the CRC.

VC10Cr32Udt (crc32arTab, crc32Value, crc32DataIn)

Updates the value of the CRC for any new acquired datas.

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	ARRGBL	crc32arTab	L	Array of at least 256 elements containing the table of parameters to calculate the CRC.
OUT	GLOBAL	crc32Value	L	Variable used to hold the value of the CRC.
IN	GLOBAL	crc32DataIn	L	New value to update the calculation

VC10Cr32Calc (crc32arTab, crc32Value, crc32DataIn)

CRC calculation concludes once gone are the data.

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	ARRGBL	crc32arTab	L	Array of at least 256 elements containing the table of parameters to calculate the CRC.
OUT	GLOBAL	crc32Value	L	Variable to be initialized to contain the value of the CRC.

Example

```
VC10Cr32Init( ImedCrcTab, LImedCrcC )

MAIN:

IF Start_Calc EQ 1
         VC10Cr32Beg( ImedCrcTab, LImedCrcC )

          FOR (Index = 1, Index LE DIM_ARRAY, 1)
         ;Adds a new data to calculate the CRC taking it from an array
         TmpLong = ArrayLong[Index]
         VC10Cr32Upt( ImedCrcTab, LImedCrcC, TmpLong)
          NEXT

          VC10Cr32Calc ( ImedCrcTab, LImedCrcC ) ;Conclusion of the calculation of the CRC

          Start_Calc = 0
ENDIF
WAIT 1
JUMP MAIN
```

```
END
```