

Environment and Development Language



TRIPOS GW language

- High level language
- Conforming the EN611131-3 (ST) norm
- Special version for the programming of the GWxxxxx controllers
- Multitasking operating system
- Full control of all hardware resources
- Management of diverse priority tasks
- Management of complete and real numerical values
- Easy to learn!

TRIPOS GW Syntax

- Comments:
 - (* Comment *)
- Object allocations or object bit allocations:
 - Object := value , RESETBIT (Object , bit) , SETBIT (Object , bit)
- Arithmetic operands:
 - + * /
- Logics / bolean functions:
 - AND, OR, NOT, NEG, COM, SHL, SHR, XOR...
- Trigonometric functions:
 - COS, SIN, LOG, TAN, SQRT...
- Compaison functions:
 - IF...THEN..ELSE / IF_BITSET ... THEN..ELSE / IF_BITRESET ... THEN..ELSE
- Loop functions:
 - WHILE..DO..END_WHILE
 - FOR..DO..END_FOR
- Subroutines calls:
 - CAL, RET



Language extension of Ever

- Interrupt management functions:
 - DEFINE_INT, INT, INT_VAR, RET_INT
- CAM and notch search management functions:
 - CAM_SELECTED, CAM_FORCE_NICK_FIND
- Management functions multitasking system:
 - TASK_CREATE , TASK_WAIT , TASK_KILL , TASK_PRIORITY
- Management functions of the motor movement:
 - MOVE_REMOTE_MOTOR, STOP_REMOTE_MOTOR
- Error management functions:
 - ON_ERROR, RESUME

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Language extension of Ever

- Management functions of the CANopen bus:
 - READ_OBJ, WRITE_OBJ, READ_SDO, WRITE_SDO, SEND_PDO
- Management functions of the Profibus bus:
 - WRITE_PROFI_OUT, READ_PROFI_IN
- Management functions of the DeviceNET bus:
 - WRITE_DEVICENET_OUT, READ_DEVICENET_IN
- Management functions of the Modbus bus:
 - WRITE_MODBUS_REG , READ_MODBUS_REG

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TRIPOS GW language example

- To set the encoder position connected to the GW controller:
 - Encoder_Actual_Value[0] := 1000;
- To switch on a digital output of the GW controller:
 - B0_Digital_Out[0] := close;
- To check the state of a digital input of the GW controller:
 - IF B0_Digital_In[0] = open THEN



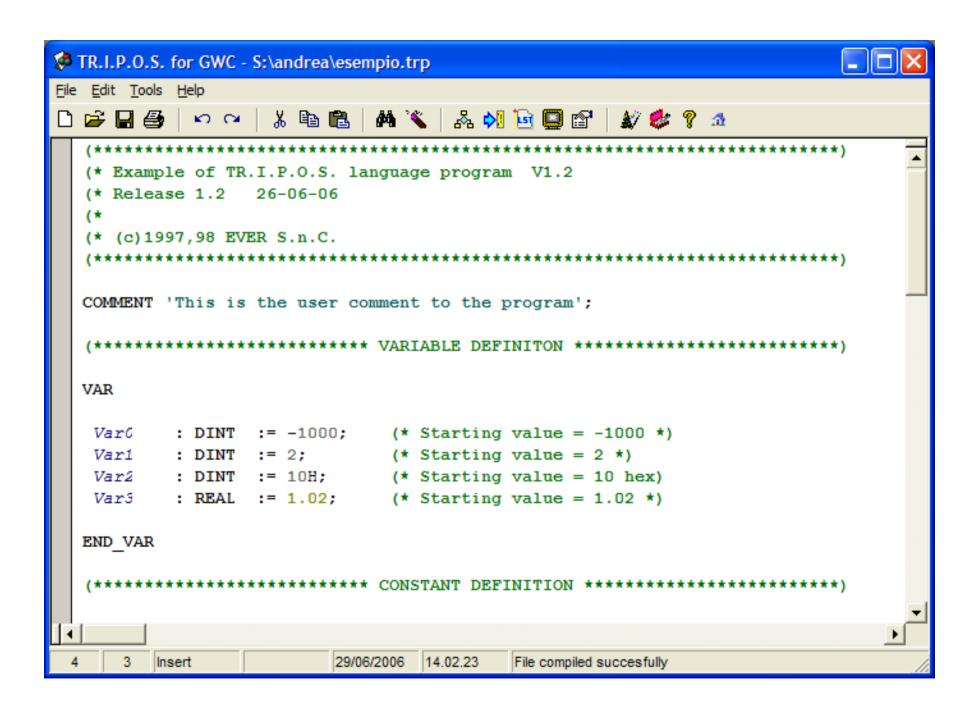
TRIPOS GW I.D.E. (Integrated Develop Environement)

- Syntax editor with highlighter
- Fast compiler
- Terminal window
- Fcontrol window (inputs, cycle time of tasks)
- Custom client window
- Program load and upload
- RS232/485 connection support
- User interface window
- Tested on Windows 9x/NT4/2000/XP



TRIPOS GW I.D.E. (Editing interface)

- Mapping CUA keys
- No file dimension limits
- Find and replace function
- Undo cancel/repeat function
- Change vertical and horizontal view
- Printer function

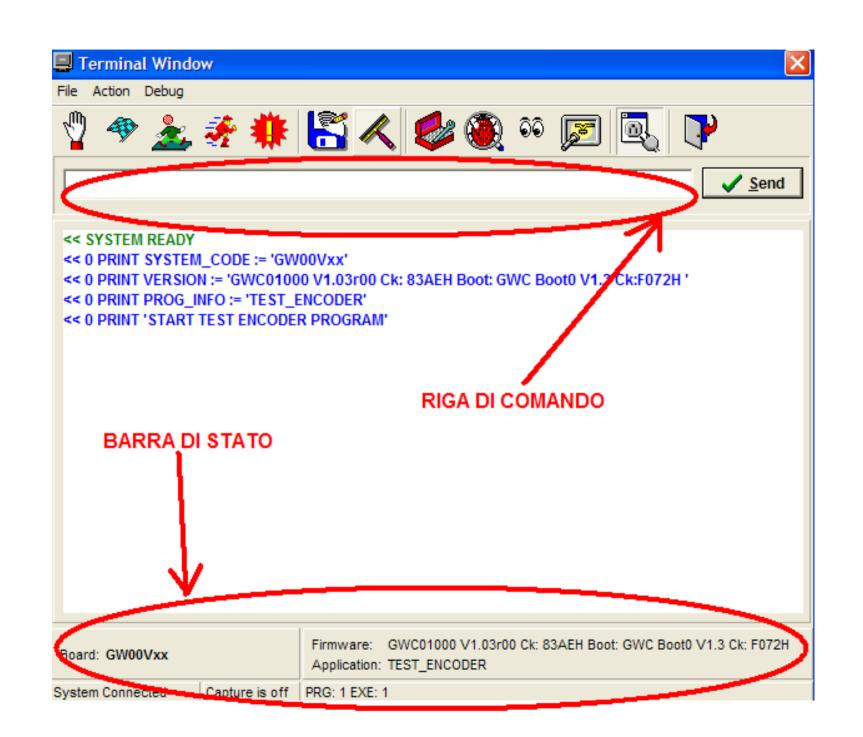


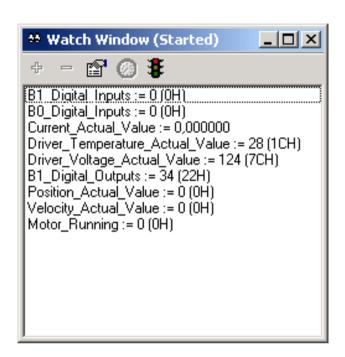


TRIPOS GW terminal window

Used to:

- Open a direct communication path to the web administrated by the GW controller
- Verify and/or change the objects and/or the variables of the drive connected to the network
- Debug the user application
- Start/stop the motor



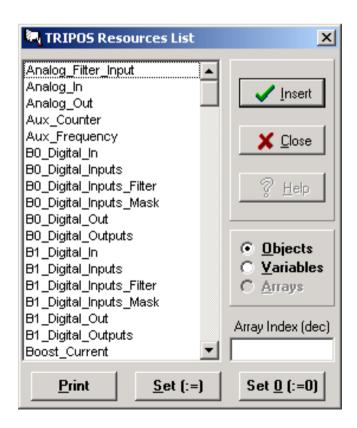


Control window

- Control in real time the objects and the user variables of the controller
- Selectable update frequency
- The values of the observed objects can be edited immediatelly

Window of resources list

- Available in editing and terminal window
- To control the entire objects array available from the controller
- To help editing the user's software application





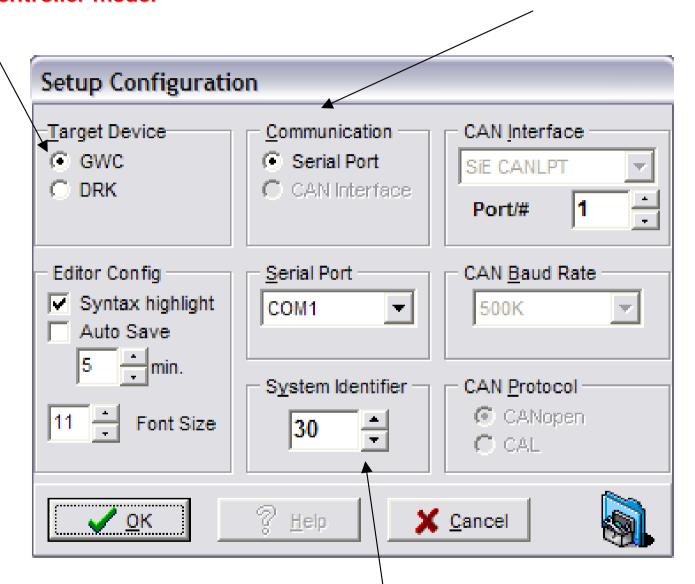
TRIPOS GW I.D.E. configuration

To set:

- the controller version
- the active communication connection
- the principal editor options

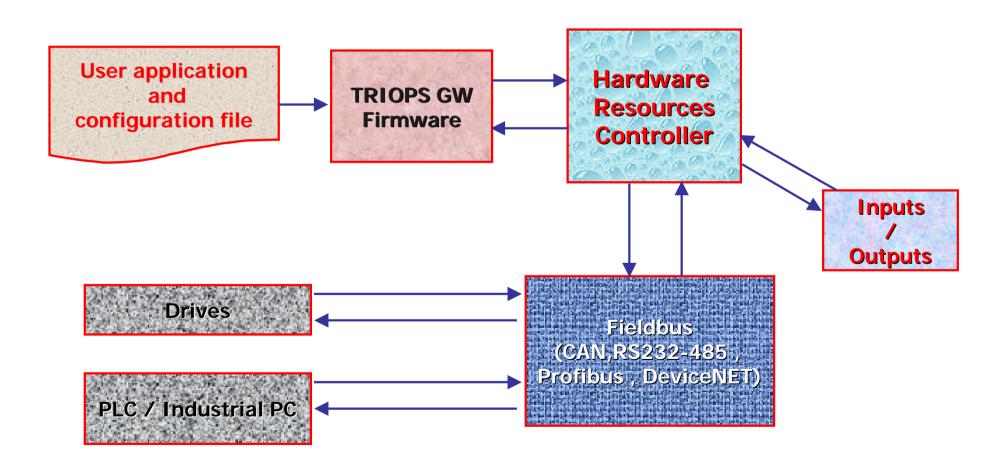
EVER controller model

Selectable comunication interface



Identifier of the selectable drive

TRIPOS GW work diagram





TR.I.P.O.S.GW

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