

Exercise - View the M580 State from Unity Pro

Learning Outcomes

By the completion of this exercise the student will:

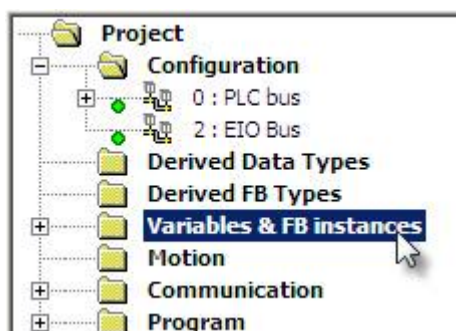
- Be able to monitor the **M580 CPU** from **Unity Pro**

Connect to the PLC.

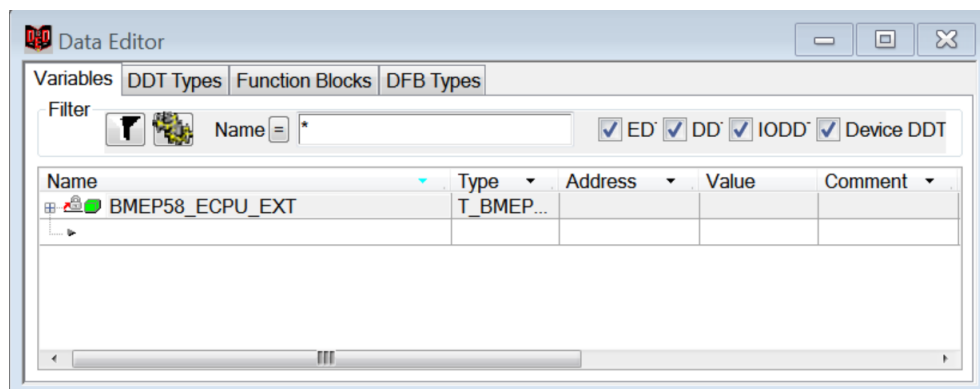
- Via USB, Ethernet or Simulation Mode.

View data from the Device DDT.

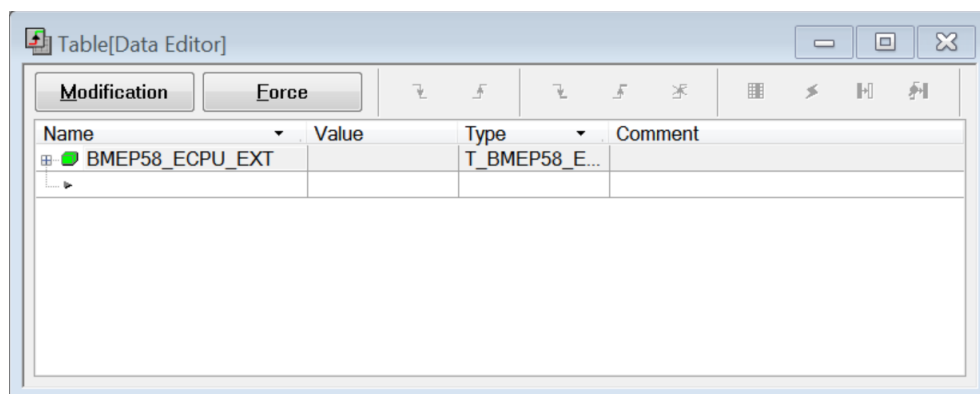
- From the **Project Browser**, double-click the **Variables & FB Instances** item.



The **Data Editor** opens and shows the **BMEP58_ECPU** variable.



- Select the **BMEP58_ECPU** variable. Press **CTRL + T** on the keyboard, this will open an **Animation Table** and add the **BMEP58_ECPU** variable to it.



Exercise - View the M580 State from Unity Pro (cont.)

- iii. Expand the variable, and inspect the available properties. The picture below has been taken in simulation mode; if connected to a PLC different values would be shown.

Name	Value	Type	Comment
BMEP58_ECPU_EXT		T_BMEP58_E...	
ETH_STATUS	0	WORD	Ethernet status
PORT1_LINK	0	BOOL	Link up/down for Ethernet port 1
PORT2_LINK	0	BOOL	Link up/down for Ethernet port 2
PORT3_LINK	0	BOOL	Link up/down for Ethernet port 3
ETH_BKP_PORT_LI...	0	BOOL	Link up/down for Ethernet bac...
REDUNDANCY_ST...	0	BOOL	Redundancy status / backup p...
SCANNER_OK	0	BOOL	Scanner OK and scanning at l...
GLOBAL_STATUS	0	BOOL	0: one or more services not op...
SERVICE_STATUS	0	WORD	One bit for each user-observa...
RSTP_SERVICE	0	BOOL	0: service not operating normal...
PORT502_SERVICE	0	BOOL	0: service not operating normal...
SNMP_SERVICE	0	BOOL	0: service not operating normal...
MAIN_IP_ADDRES...	0	BOOL	Main IP address status (0 in c...
ETH_BKP_FAILURE	0	BOOL	Ethernet backplane hardware ...
ETH_BKP_ERROR	0	BOOL	Ethernet backplane error (0: er...
EIP_SCANNER	0	BOOL	0: service not operating normal...
MODBUS_SCANNER	0	BOOL	0: service not operating normal...
NTP_SERVER	0	BOOL	0: service not operating normal...
SNTP_CLIENT	0	BOOL	0: service not operating normal...
WEB_SERVER	0	BOOL	0: service not operating normal...
FIRMWARE_UPGR...	0	BOOL	0: service not operating normal...
FTP	0	BOOL	0: service not operating normal...
FDR_SERVER	0	BOOL	0: service not operating normal...
EIP_ADAPTER	0	BOOL	EIP adapter (server) service 0: ...
SERVICE_STATUS2	0	WORD	One bit for each user-observa...
A_B_IP_ADDRESS...	0	BOOL	IP address A/B status (0 in ca...
LLDP_SERVICE	0	BOOL	LLDP service status
EVENT_LOG_STAT...	0	BOOL	0: event log service not operati...
LOG_SERVER_NO...	0	BOOL	1: No acknowledgement receiv...
ETH_PORT_1_2_S...	0	BYTE	Ethernet port 1 and 2 status
ETH_PORT3_BKP...	0	BYTE	Ethernet port 3 and backplane...
FDR_USAGE	0	BYTE	% of FDR server usage
IN_PACKETS	0	UINT	Number of packets received o...
IN_ERRORS	0	UINT	Number of inbound packets th...
OUT_PACKETS	0	UINT	Number of packets sent on int...
OUT_ERRORS	0	UINT	Number of outbound packets t...
CONF_SIG	0	UDINT	Signature of all files on local m...
DROP_HEALTH		ARRAY[1..31]...	DROP health bits (Drop 1 to 31)
RIO_HEALTH		ARRAY[257.....	RIO health bits (1 bit per RIO ...
LS_HEALTH		ARRAY[1..3] ...	Local Slave health bits (Local ...
DIO_HEALTH		ARRAY[513.....	DIO health bits (1 bit per DIO ...
DROP_CTRL		ARRAY[1..31]...	DROP control bits (Drop 1 to 3...
RIO_CTRL		ARRAY[257.....	RIO control bits (1 bit per RIO ...
DIO_CTRL		ARRAY[513.....	DIO control bits (1 bit per DIO ...

- iv. For more information about the information displayed by the **M580 Device DDT**, have a look at the **M580** documentation.
- v. **Save** the project.

