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PLC210 Lab Exercise 11: Event Tasks

Upon completion of this lab, the student should be able to:

1. Explain various tasks found in the controller organizer window
2. Explain how to change the parameters for a continuous task
3. Explain how to create a new event task
4. Explain how to change the parameters for a event task
5. Explain how a Trigger Event Task instruction works.

Download the project Compact_Module_5_Ex2_Event_Task.ACD, go Online and put the CompactLogix into the Run mode to do the following lab.

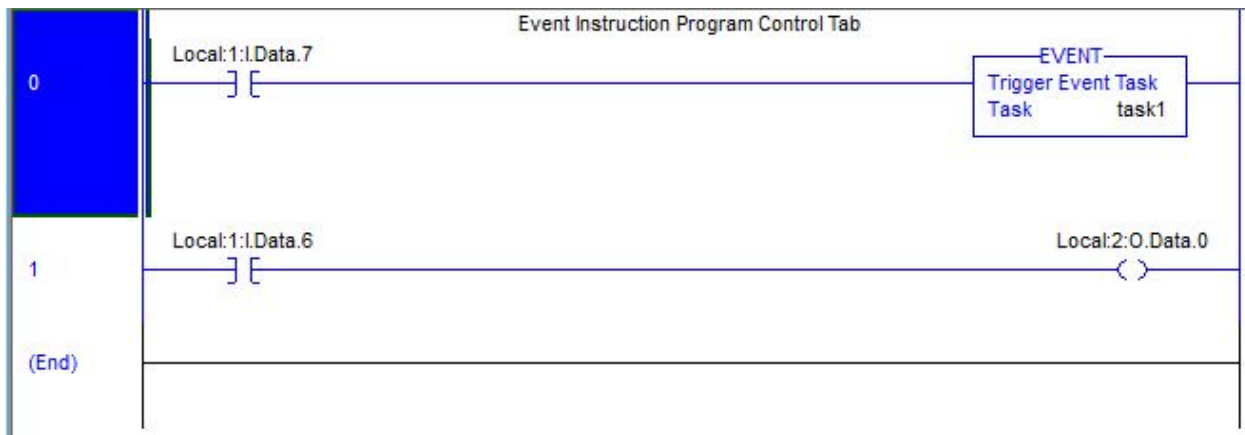The I/O tag names in this lab may need to be changed to match the addresses on your hardware trainer.

Figure 1. The EVENT instruction.

1.   Monitor the MainRoutine

Does SS6 turn ON PL0 on the demo board?_____

Is the logic running in the MainRoutine?_____

2.   What type of Task is the MainTask? _____.

Hint: Right Mouse Click on the Properties selection for MainTask.
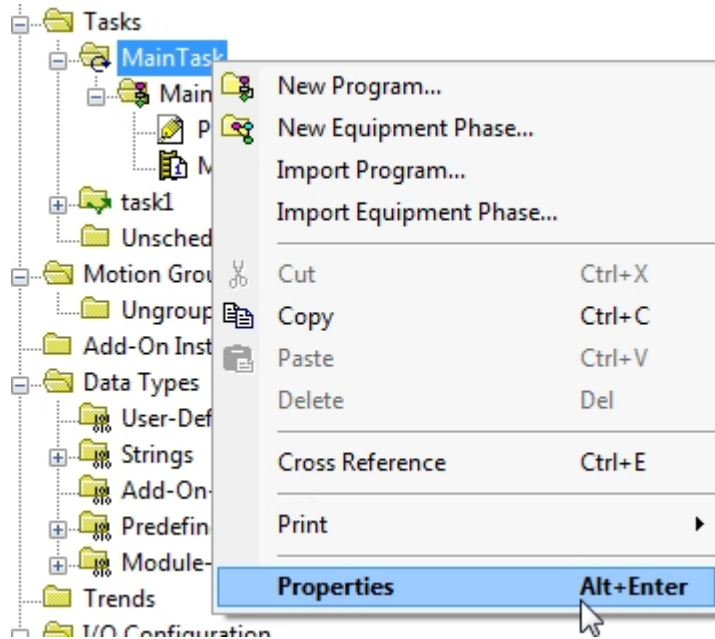
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Figure 2. The Icon for MainTask.

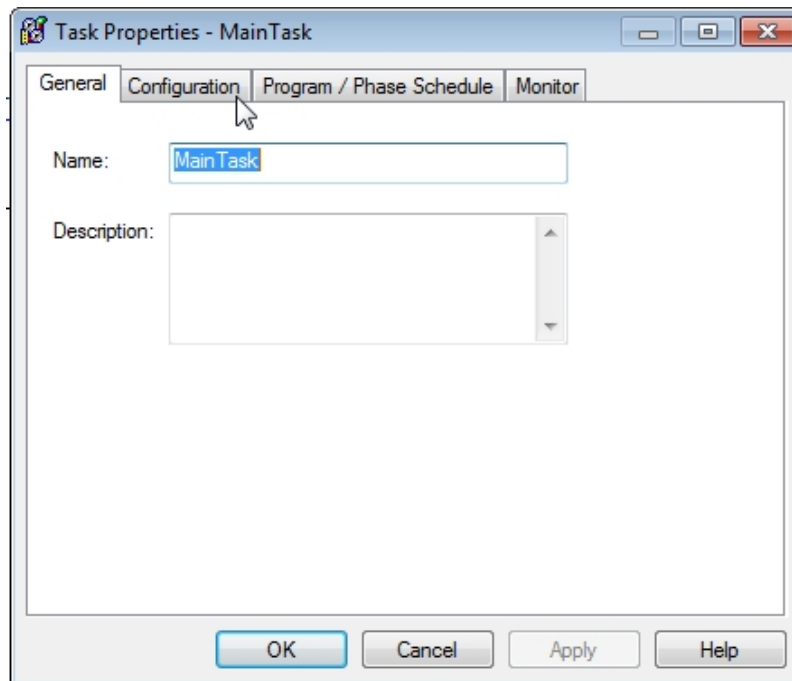Left Mouse Click on the Configuration tab
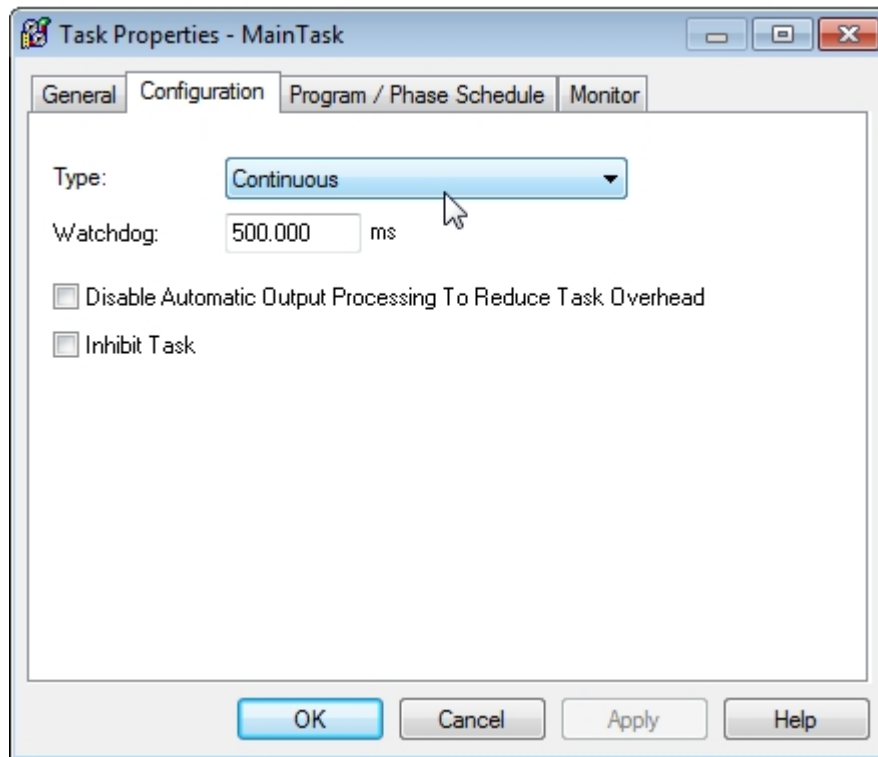

Figure 3. View Type information.

Figure 4. Verify the Continuous task setting.

3. Ensure SS5 is turned to the left – OFF.
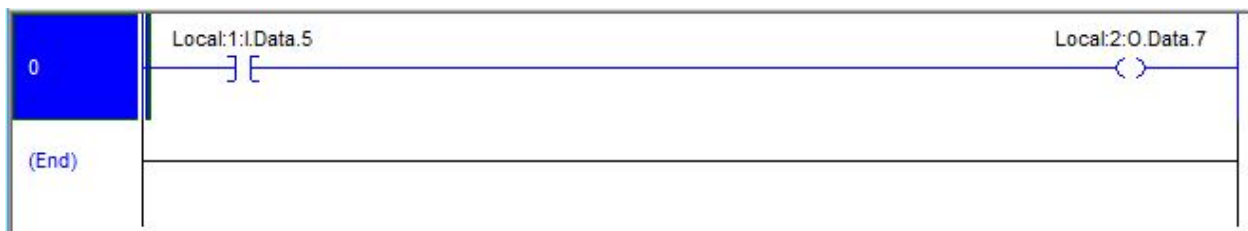
Monitor the R1 routine.

Figure 5. Verify the Continuous task setting.

Toggle SS5 does PL7 change states?_____

Is the logic in R1 being scanned?_____

4. In the MainRoutine, toggle SS7 to the right – ON

In the R1routine, toggle SS5 does PL7 change
states?_____
Is the logic in R1 being scanned?_____

In the MainRoutine, toggle SS7 to the left – OFF
In the R1routine, toggle SS5 does PL7 change states?_____
Is the logic in R1 being scanned?_____

5. What type of Task is task1
   Hint: Right Mouse Click on the Properties selection for T1 task.
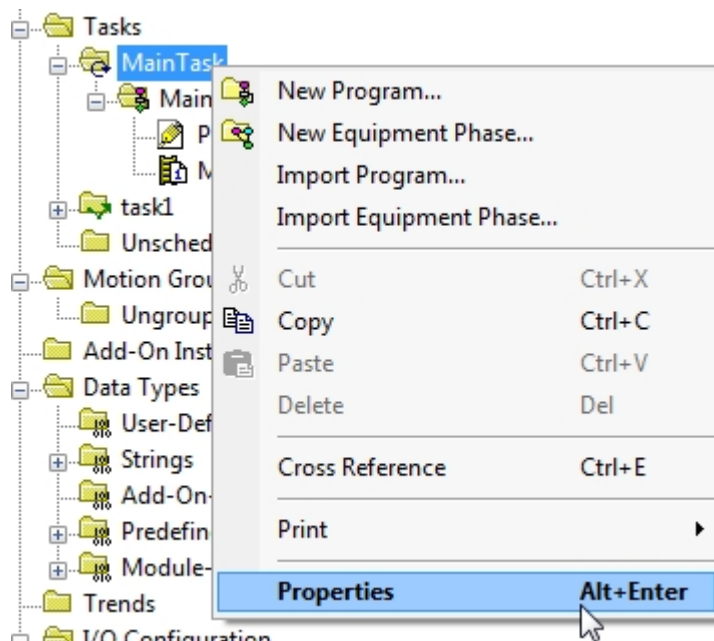

Figure 6. Verify the Properties of MainTask.

Note: Icon for task1 task
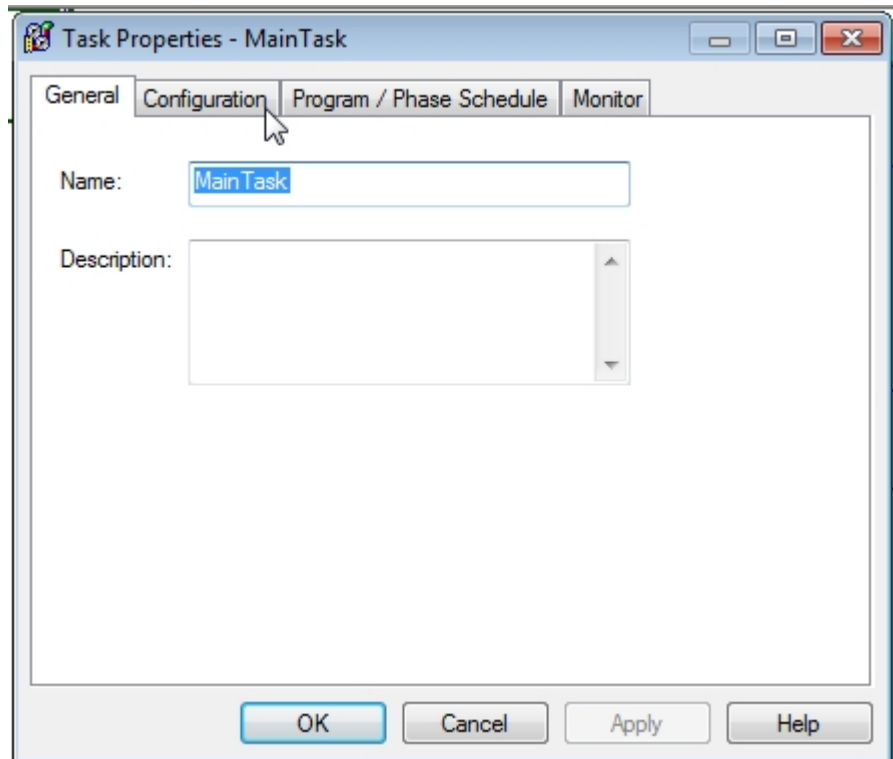

Left Mouse Click on the Configuration tab

Figure 7. Verify the Configuration of MainTask.
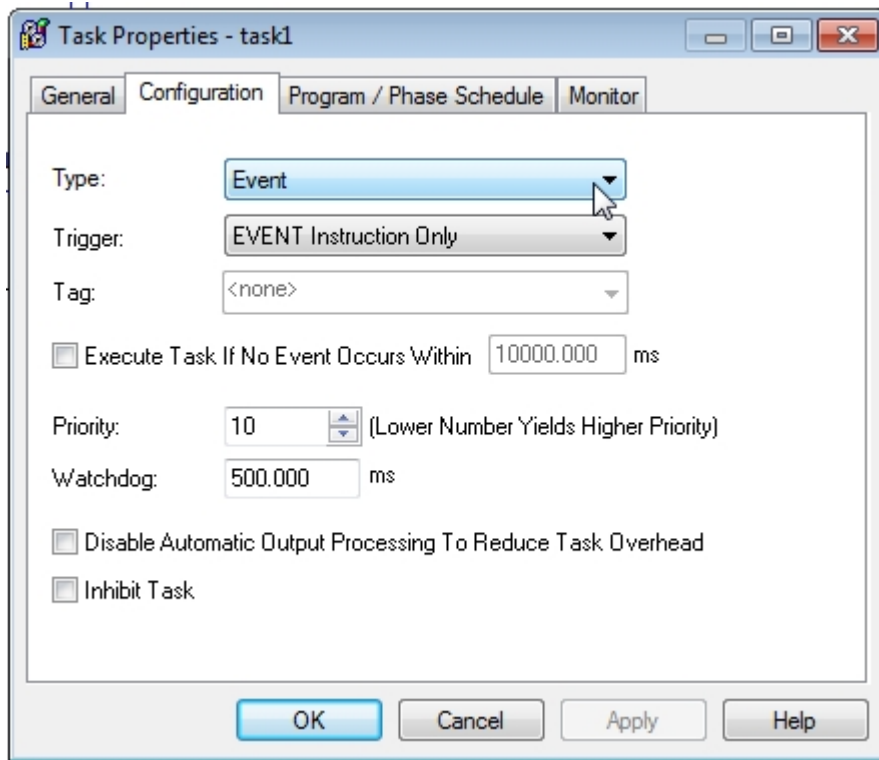

View Type information

Figure 8. Verify the Event setting for task1.

What is the Type setting for the task1 task? _____

What is the Trigger setting for the task1 task?_____

Where is the EVENT instruction located in the project file?_____

What are the other types of triggers?_____

_____

_____

What is the range of the Priority setting?_____

A task with a Priority setting of _____ will be the highest priority task.

6.   Explain when the routines in an Event Tasks are scanned?

_____

_____

_____

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