

Wait (ms) and Wait Until Next ms Multiple Explained

By: EricS. 11-10-2010 10:11 AM Last Edited By: EricS. 01-27-2017 03:50 AM



Products and Environment

To download NI software, including the products shown below, visit ni.com/downloads.

Software

LabVIEW

Code and Documents

Attachment

 Wait vs Wait Until Next LV2010.vi 18 KB  Wait vs Wait Until Next LV82.vi 32 KB

 Wait vs Wait Until Next LV12 - NI Verified.vi 19 KB

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Overview

Coding that demonstrates how the "Wait (ms)" and "Wait until Next ms Multiple" functions work in a different way.

Description

This VI goes through two common wait VIs in LabVIEW: Wait(ms) and Wait Until Next ms Multiple. There is often a questions of when to use each and what the difference is. Exploring this VI will increase your awareness of the difference of the two functions and how they interact with one another.

There are four cases explored in this VI, and each has a designated tab on the front panel:

0. Wait (ms) - This is the most basic wait function, where the VI will wait a specified number of milliseconds.
1. Wait Until Next ms Multiple - This VI will wait until the system clock has reached a multiple of the specified millisecond amount.
2. Wait & Wait Until - This case explores how the two VIs work when used in parallel.

Try this case with different values to see which controls the execution timing.

3. Wait Until Next Explained - This case has a little bit of math that calculates why the Wait Until Next ms Multiple VI waits the amount of time that it does.

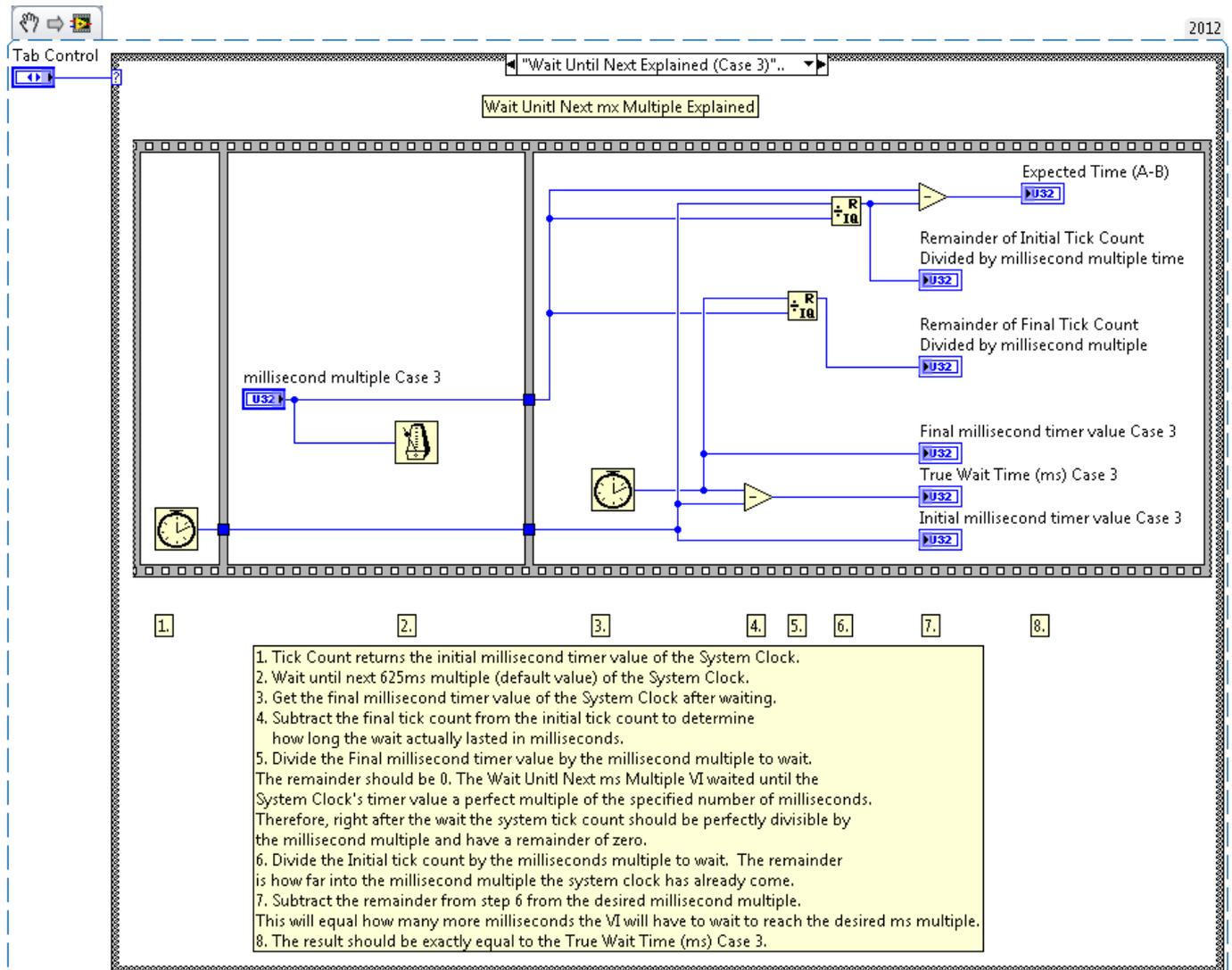
Requirements

LabVIEW 2012 (or compatible)

Steps to Implement or Execute Code

1. Select the tab you would like to run
2. Set the time you would like the functions to wait
3. Run the VI

Additional Information or References



Example code from the Example Code Exchange in the NI Community is licensed with the MIT license.

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COMMENTS



LV_learner MEMBER on 02-02-2011 11:23 AM

02-02-2011 11:23 AM

Excellent example! It helps a lot to understand the REAL functions of these two timing blocks.



1 KUDO



Broken_Arrow 🚧 ACTIVE PARTICIPANT on 02-04-2011 07:15 AM

02-04-2011 07:15 AM

Well done, thanks!



0 KUDOS



sivarama MEMBER on 11-23-2015 04:53 AM

11-23-2015 04:53 AM

Good example and cleared my doubts about these functions



0 KUDOS



sevincom MEMBER on 07-25-2016 06:11 AM

07-25-2016 06:11 AM

Really good example with all questions answered



0 KUDOS



ds28 MEMBER on 05-19-2017 07:27 AM

05-19-2017 07:27 AM

Can any one please tell me, how I can get the specified value to wait(ms) timer as output from it (Supposing 10 is the input to the wait(ms) timer, how I can 10 in the numeric indicator if I wire it to its output.



0 KUDOS



暗藏 MEMBER on 01-07-2021 09:51 PM

01-07-2021 09:51 PM

Thank you very much for sloving the problem that has been confusing me.



0 KUDOS

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