

Manual de programas creados en LabVIEW

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Resumen—En el presente reporte se mostrará el resultado de aprendizaje sobre el uso de LabVIEW y su programación correcta.

Palabras clave: Controles, funciones y bloques.

I. Objetivo

- Mostrar el funcionamiento del programa en el dispositivo asignado.
- Realizar la documentación correcta del programa que ejecute distintas funciones.

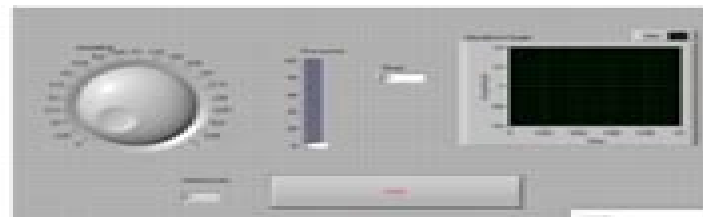
II. Introducción

En el presente manual se mostrará el desarrollo de nuestros programas elaborados con la aplicación de LabVIEW, se explicarán también parte de sus controles y funciones, así como su correcta organización y despliegue de bloques. Todo esto simulando circuitos virtualmente aprendido durante este primer parcial en clases guiado nos de otro manual.

III. Herramientas usadas

- Laptop

IV. Desarrollo



Panel frontal

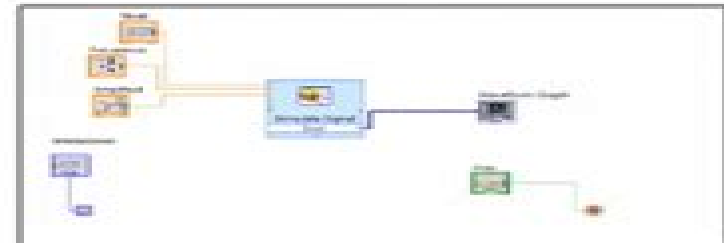


Diagrama de bloques

Para esta que fue la practica I, se observa un diagrama de tipo sine, el cual se puede modificar la frecuencia y amplitud. Para ello nos guiamos de los siguientes pasos:

Nos dirigimos al panel frontal y seleccionamos los botones que se indican en las imágenes, los cuales son: waveform graph, botón de stop, numeric control e indicador, vertical pointer y knob. Después de seleccionar nuestro botones nos dirigimos a la pantalla de bloques damos click derecho y seleccionamos una estructura While loop y después seleccionamos la función Simulate Signal y se ajustara de tal forma que desplegara una grafica en sine, para ello colocamos nuestros bloques de los botones dentro de la estructura While, una vez hecho daremos click derecho sobre el numeric indicator, seleccionamos la opción representation y luego I32 y unimos al bloque i, el botón stop lo unimos al botón rojo y al final unimos los bloques sobrantes al bloque Simulate signal en el siguiente orden, primero al numeric control, vertical pointer y después el knob al tercer triangulo del bloque Simulate. El triángulo negro será unido a waveform.

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National Instruments Corporation

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the National Instruments Corporation text.

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Sistemas de medición electrónica Edward Jhohan Marin Garcia, 2023-12-01 El presente texto producto de las experiencias pedagógicas del autor por más de 15 años como profesor de la Universidad del Valle sede Cartago aborda los temas que permiten la fundamentación para el diseño e implementación de las etapas involucradas en los sistemas de medición electrónica describe todo lo relacionado con el campo de la metrología y la estadística hace una introducción a los sistemas de medida para luego abordar los diferentes sensores empleados a nivel industrial posteriormente se presentan los sistemas electrónicos de acondicionamiento de señal a partir de circuitos puentes AC y DC y por último se tratan los amplificadores de instrumentación Es de indicar que los aparatos de medición y control empleados en los procesos industriales suelen sensar o mensurar características físicas tales como tensión presión fuerza temperatura flujo nivel velocidad peso humedad o químicas como pH y conductividad eléctrica propias de ciertos procesos industriales razón por la cual el estudio de las mediciones electrónicas juega un papel importante en la formación de los futuros profesionales de las carreras afines a la electrónica Cada capítulo incluye una gran variedad de ejercicios para clase con los que el estudiante podrá mejorar las competencias relacionadas con el tema y se propone una serie de ejercicios con varios niveles de complejidad para aumentar la destreza y el desempeño

LabVIEW user manual, 2000 *LabVIEW Core 3* National Instruments Corporation (Estados Unidos), 2010 **LabVIEW Core 1** National Instruments Corporation, 2009 **LabVIEW core 1** National Instruments Corporation (Estados Unidos), 2011 **LabVIEW core 2** National Instruments Corporation (Estados Unidos), 2009 **LabVIEW core 1** National Instruments Corporation (Estados Unidos), 2009 *LabVIEW*. National Instruments (Firm), 2010 **LabVIEW Tutorial Manual**, 1996 **LabVIEW core 2** National Instruments Corporation (Estados Unidos), 2009 **LabVIEW Advanced Course Manual** National Instruments (Firm), 2001 *LabVIEW Real-time Course Manual*, 2001 *LabVIEW Core 2* National Instruments Corporation, 2009 **LabVIEW Core 3 Exercises**, 2013 *LabView Core 2*, 2009 **LabVIEW Basics Course Manual**, 1993 **LabVIEW for Windows**, 1993 *LabVIEW®* National Instruments Corporation, 1994 **LabVIEW Core 3 Exercises** National Instruments (Firm), 2010 **LabVIEW Real-time 1** National instruments, 2012

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