

- *LabVIEW*
- *LabWindows/CVI Help*
- *NI Measurement Studio Help*

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→

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→ →



monospace

# Windows

- —/
- —
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- —

# Windows

""National Instruments""

\*?prog\*program  
programmaticallyprogress  
1?extnexttext



example AND (program OR VI)example  
programexmaple VI5



- AND—
- OR—
- NOT—2
- NEAR—



- —
- —programprogramsprogrammatically  
progress
- —

# Windows

1.

2.

3.



1

4. **OK**

**PDF**

PDFPDFAdobe Reader

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- \_\_\_\_\_
- \_\_\_\_\_
- I/O \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- I/O \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- RT \_\_\_\_\_



Windows Vista

→ → **National Instruments** → NI

LabVIEW

→ →



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- —
- —
- —
- —
- CPU/
- I/O
- .
- —
- .
- —
- —

# URL



- —
- —
- — .smw
- —




- — NI
- — **NI**
- — NI ACL
- —
-  Windows Vista
- —
-  Windows Vista
- —/IP
- - I/O
- —





- — NI 

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 NI Measurement  
 LabVIEW Studio Help LabWindows/CVI Help
- —



NI

LabVIEW Real-Time



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- —

I/O

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- **I/O** —I/O/O
- —
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I/O

SVE LabVIEW

Measurement StudioLabWindows™/CVI™

I/O

Publish-Subscribe Protocol (NI-PSP)NI-PSP

LabVIEW

Measurement StudioLabWindows/C\



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**I/O**

I/OPLCDAQI/O

I/O

- — . .
- —I/O
- IO —I/O
- IO —I/O

(SVE)NI Publish-Subscribe-Protocol (NI-PSP)

SVE

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SVESVE

          SVE SVE



Windows Vista

→ SVESVELabVIEWLabWindows/CVIMeasurement  
Studio SVE



Windows Vista



NI

## LabVIEW Real-Time

- 1.
- 2.
- 3.

I/O

- 1.
- 2.
- 3.

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- 1.
- 2.
- 3.
- 4.

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1. —
- 2.
- 3.

1. .

2.

3.



4.



5. →

.smw

6. →

.smw



1.

2. →

. smw

3.

→

. smw

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¥system1¥myprocess¥myvariable

¥¥system¥process¥variable ¥  
system1myprocessmyvariable



LabVIEW  
Studio

LabWindows/CVI

NI Measurement

# Windows Vista

Windows Vista                    SVE WindowsSVE  
Vista

WindowsSVE

- 1.
2.            Services
- 3.
4.            **National Instruments Variable Engine**  
y-        SVE

# I/ONI

I/O I/OI/OI/O  
LabVIEW



I/OI/O1I/O

# I/O

NI I/O

1.

2. RT      I/O LED

3. I/O I/O



I/O I/O



**I/O**

I/O

1. I/O

I/OI/O

I/O

2. I/O : I/O

3. I/O

4. I/O



I/O

**I/O**

I/O

- 1.
2. I/O
- 3.

NI

\_\_\_\_\_ NI \_\_\_\_\_

1.

2.

3.

LEDLED



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# RTReal-Time

RT CPU/RTCPU

RTCPU

1. RT

2. **CPU**/CPU

CPUCPUCPUCPUCPU

ISRInterrupt Service routinesCPU

**NI**

NI

1.

2.

3.

LED



NI

1. \_\_\_\_\_
2. :
- 3.
- 4.
- 5.



1.     

2.

3. **OK**



National Instruments Corporation



NI90NINI

NI(RMA: Return Material Authorization)NINI

NININI

NI NININI

NI1NININI

National Instruments Corporation

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# National Instruments Corporation

(1) National Instruments CorporationNI

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# Java

HTMLJava

[Windows](#) CDInternet Explorer 4.0JavaScript

Internet Explorer 4.0JavaScript

# NI ACL

: NI Distributed System Manager (Windows)

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- — /
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LabVIEW Data SysMan ACL.acl



: NI Distributed System Manager (Windows)

→ IP DSC I/O

- —IP
- —IP
- —
- —LabVIEW .aliasesLabVIEW
- —

# CPU/

: NI Scan Engine

RT

RT

CPU/

CUP

- CPU N (%) —CPU N
- (MB) —
- CPU N—CPU CPU CPU ISRCPU

- —

- —MB

- —MB

- —MB

- —MB

- —



: NI Distributed System Manager (Windows)

- —
- —
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- —


: NI Scan Engine

NI

• I/O

- - I/O/I/O I/O/I/O

- - TRUE I/O  
- - FALSE I/O

 I/O/I/O

- - I/O/I/O



• —

- - LED

- -  
- - 1  
- -

- —
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- NI

I/O/I/O  
I/O

- -  
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- -  
- I/O—NI I/O  
- -

- —CompactRIO/OI/O  
I/O/O LabVIEW

: NI Distributed System Manager (Windows)

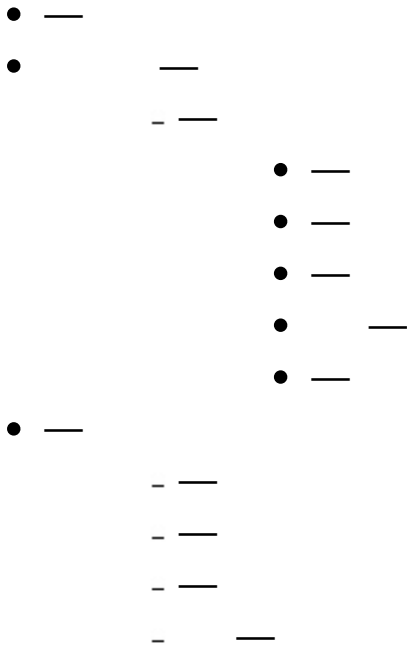


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- —
- —
- —
- —
- —
- —
- —
- — / LabVIEW

: NI Distributed System Manager (Windows)

1

LabVIEW





: NI Distributed System Manager (Windows)

HTTPURL LabVIEW

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- —
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- —
- —
- **URL** —URL
- —URL URL

: NI Distributed System Manager

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- —
- —
- **MXS**—MXS
- —
- —
- —

**NI**

: NI Distributed System Manager (Windows)

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- —
- NI—

: NI Distributed System Manager (Windows)

→

- —\\examplesystem

: NI Distributed System Manager (Windows)

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//SystemName/Process/Variable

: NI Distributed System Manager (Windows)

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: NI Distributed System Manager (Windows)

- —
- —DSC
- —
- —DSC
- —
- Real-Time FIFO—RT      Real-Time FIFO
- —
- —DSC
- —DSC
- —DSC

LabVIEWLabVIEW

# I/O

: NI Distributed System Manager (Windows)

I/O I/O

RT I/O ModbusSlave I/O

- I/O —IO
- **Description—Select IP GeneratorIP**
- —IO



	972 0 3 6393737
	39 02 41309277
	91 80 41190000
	44 (0) 1635 523545
	1800 300 800
	43 662 457990-0
	31 (0) 348 433 466
	800 433 3488
	82 02 3451 3400
	1800 226 5886
	41 56 2005151
	46 (0) 8 587 895 00
	34 91 640 0085
	386 3 425 42 00
	662 278 6777
	886 02 2377 2222
	86 21 5050 9800
	420 224 235 774
	45 45 76 26 00
	49 89 7413130
	90 212 279 3031
	0800 553 322
	0120-527196 / 81 3 5472 2970
	47 (0) 66 90 76 60
	358 (0) 9 725 72511
	33 (0) 1 57 66 24 24
	512 683 0100

	32 (0) 2 757 0020
	55 11 3262 3599
	48 22 3390150
	351 210 311 210
	1800 887710
	27 0 11 805 8197
	01 800 010 0793
	961 (0) 1 33 28 28
	7 495 783 6851