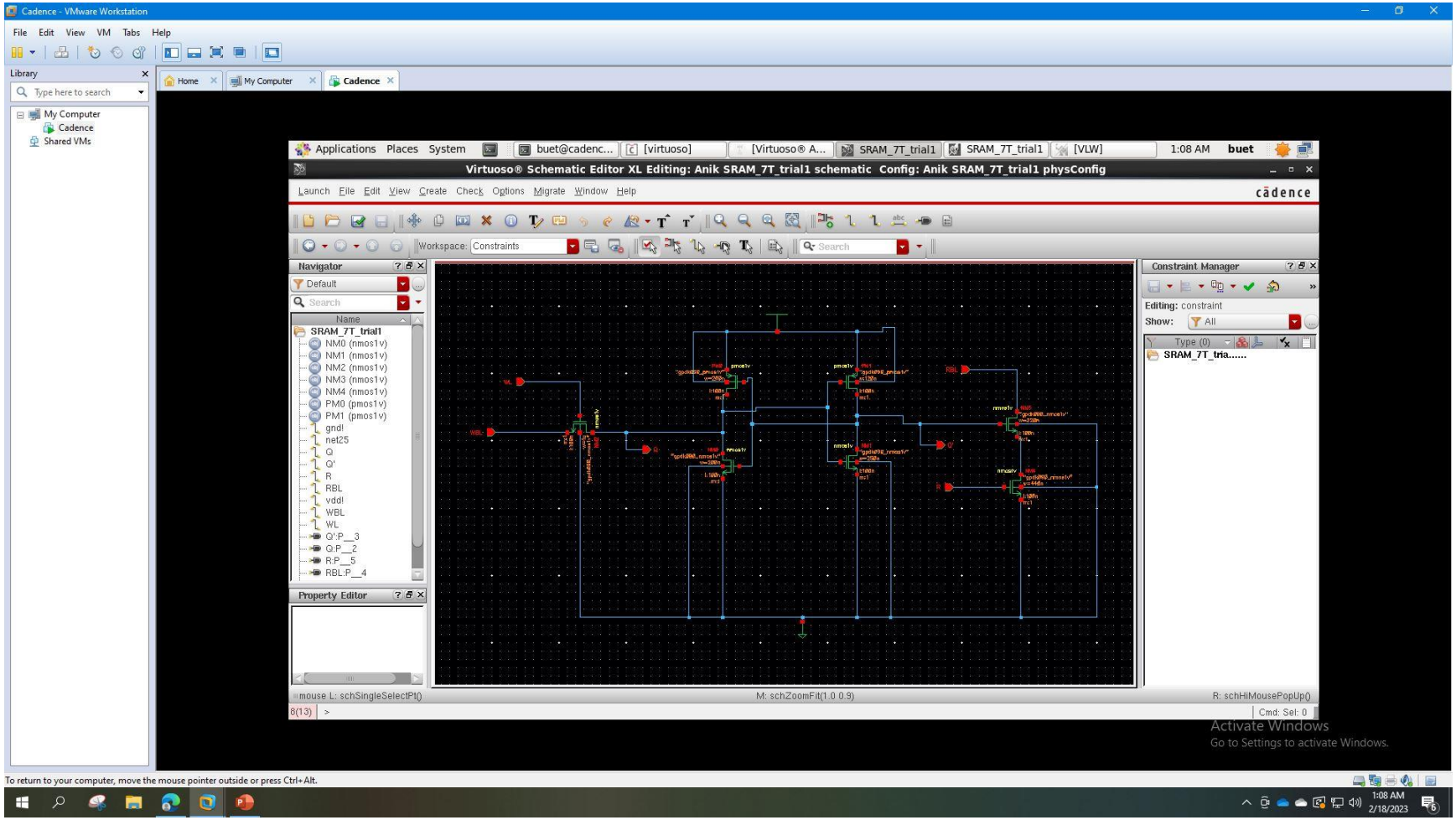
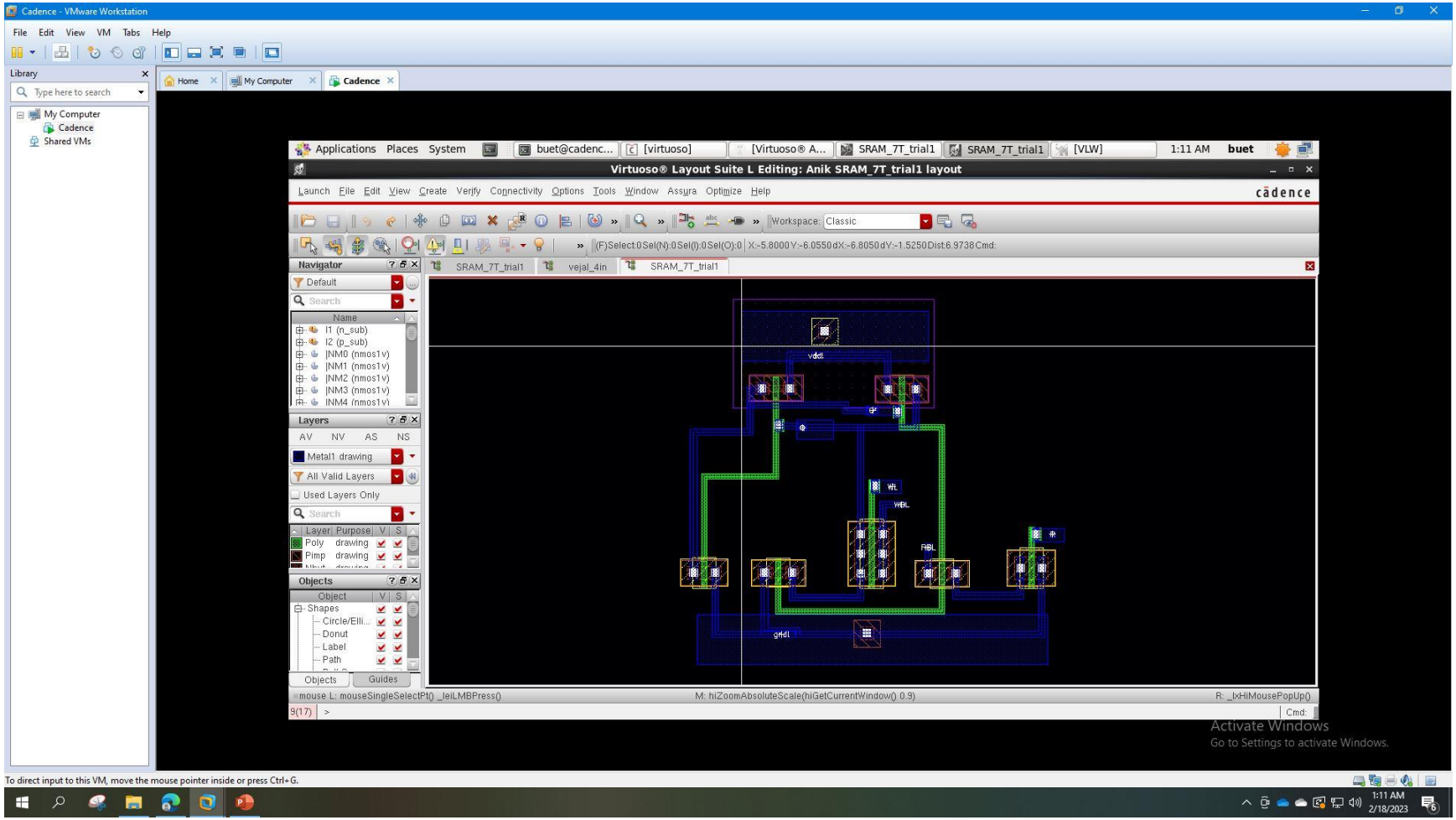
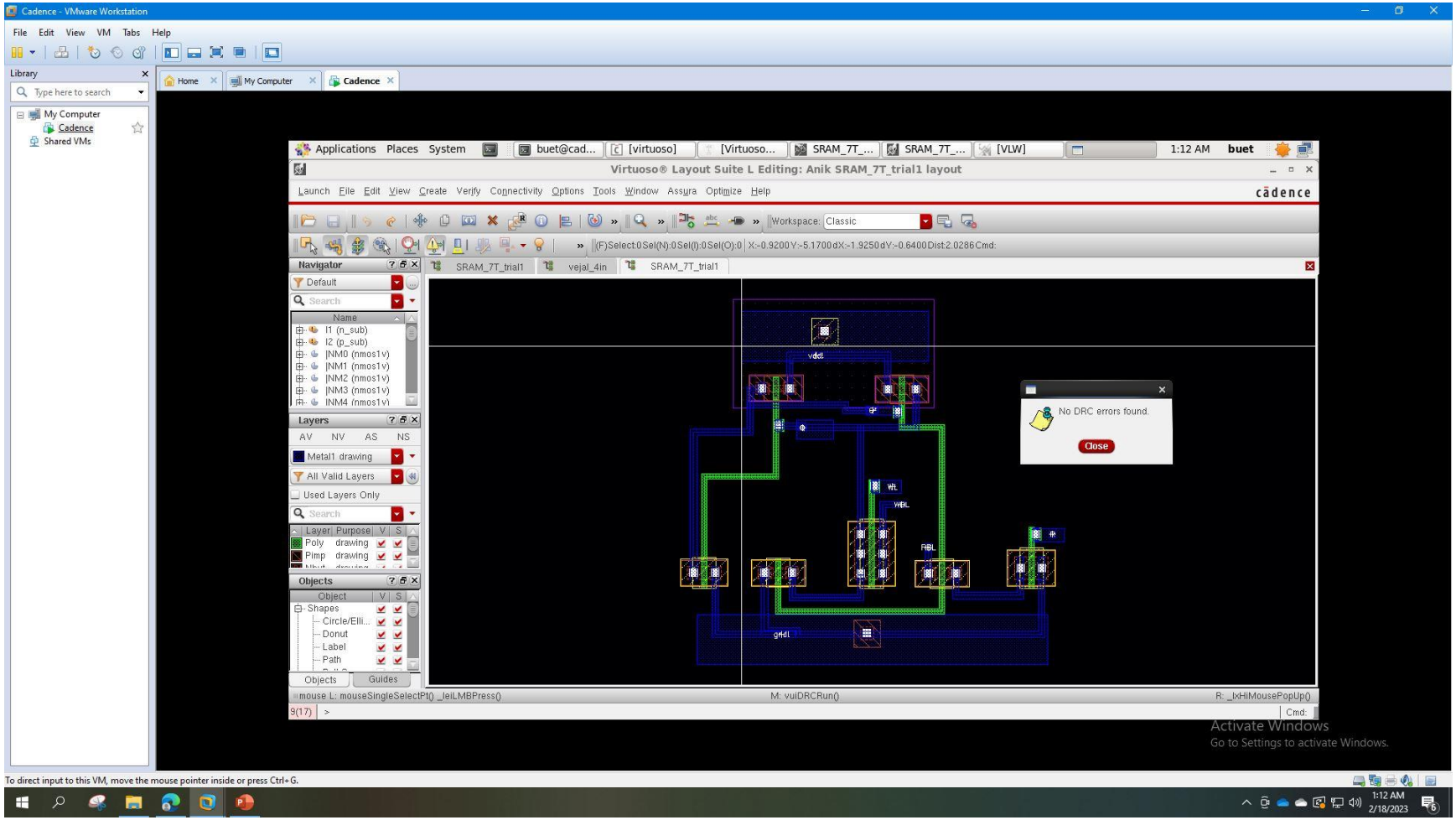
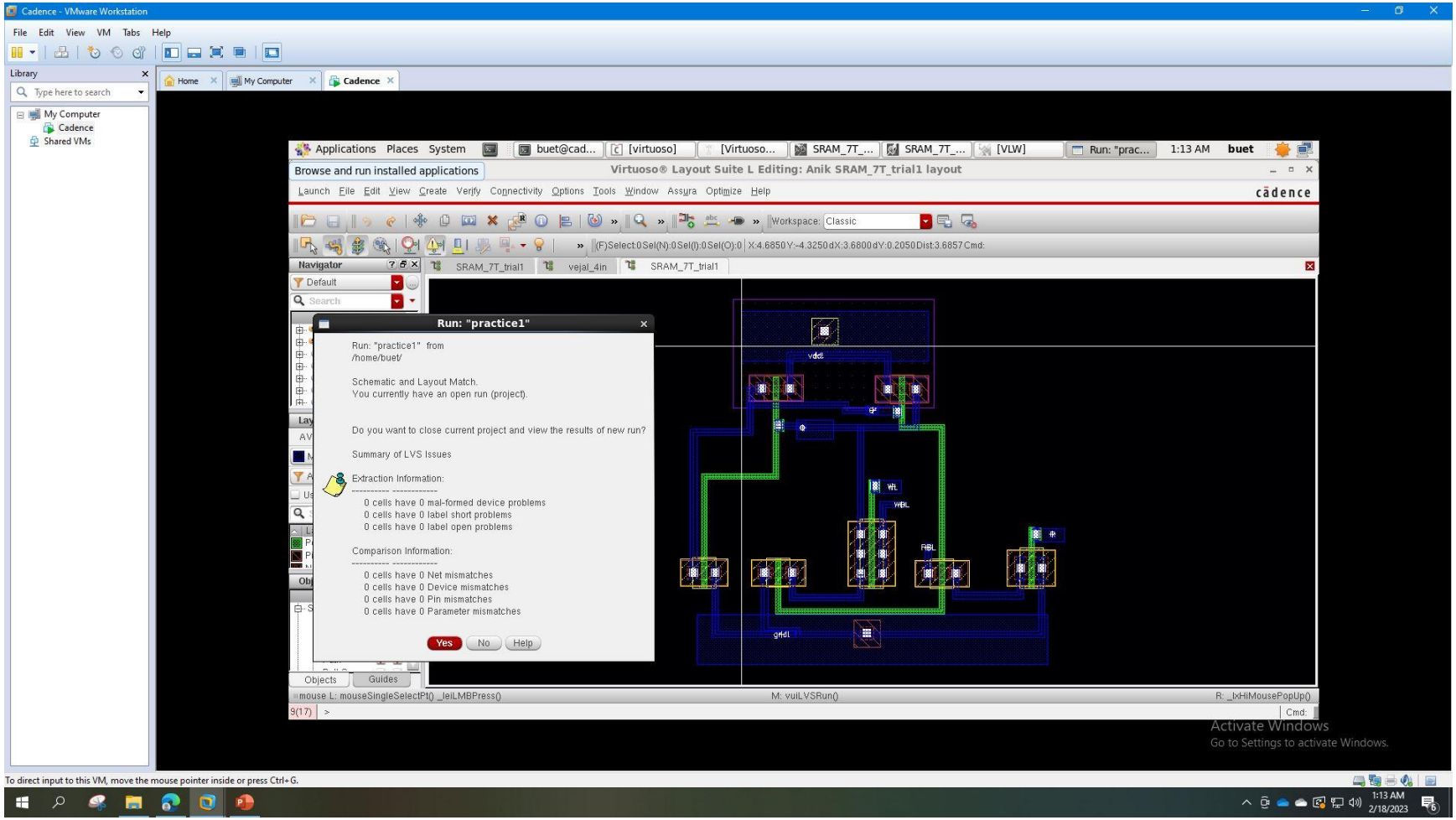

Cadence - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Cadence
Shared VMs
Home
My Computer
Cadence
Applications Places System
buet@cadenc...
[virtuoso]
[Virtuoso® A...
SRAM_7T_trial1
SRAM_7T_trial1
[VLW]
1:08 AM
buet
Virtuoso® Schematic Editor XL Editing: Anik SRAM_7T_trial1 schematic Config: Anik SRAM_7T_trial1 physConfig
Launch File Edit View Create Check Options Migrate Window Help
cadence
Workspace: Constraints
Search
Navigator
Default
Search
Name
SRAM_7T_trial1
NM0 (nmos1v)
NM1 (nmos1v)
NM2 (nmos1v)
NM3 (nmos1v)
NM4 (nmos1v)
PM0 (pmos1v)
PM1 (pmos1v)
gnd!
net25
Q
Q'
R
RBL
vdd!
WBL
WL
Q':P__3
Q:P__2
R:P__5
RBL:P__4
Property Editor
Constraint Manager
Editing: constraint
Show: All
Type (0)
SRAM_7T_tria.....
mouse L: schSingleSelectPt()
M: schZoomFit(1.0 0.9)
R: schHiMousePopUp()
8(13)
Cmd: Sel: 0
Activate Windows
Go to Settings to activate Windows.
To return to your computer, move the mouse pointer outside or press Ctrl+Alt.
1:08 AM
2/18/2023

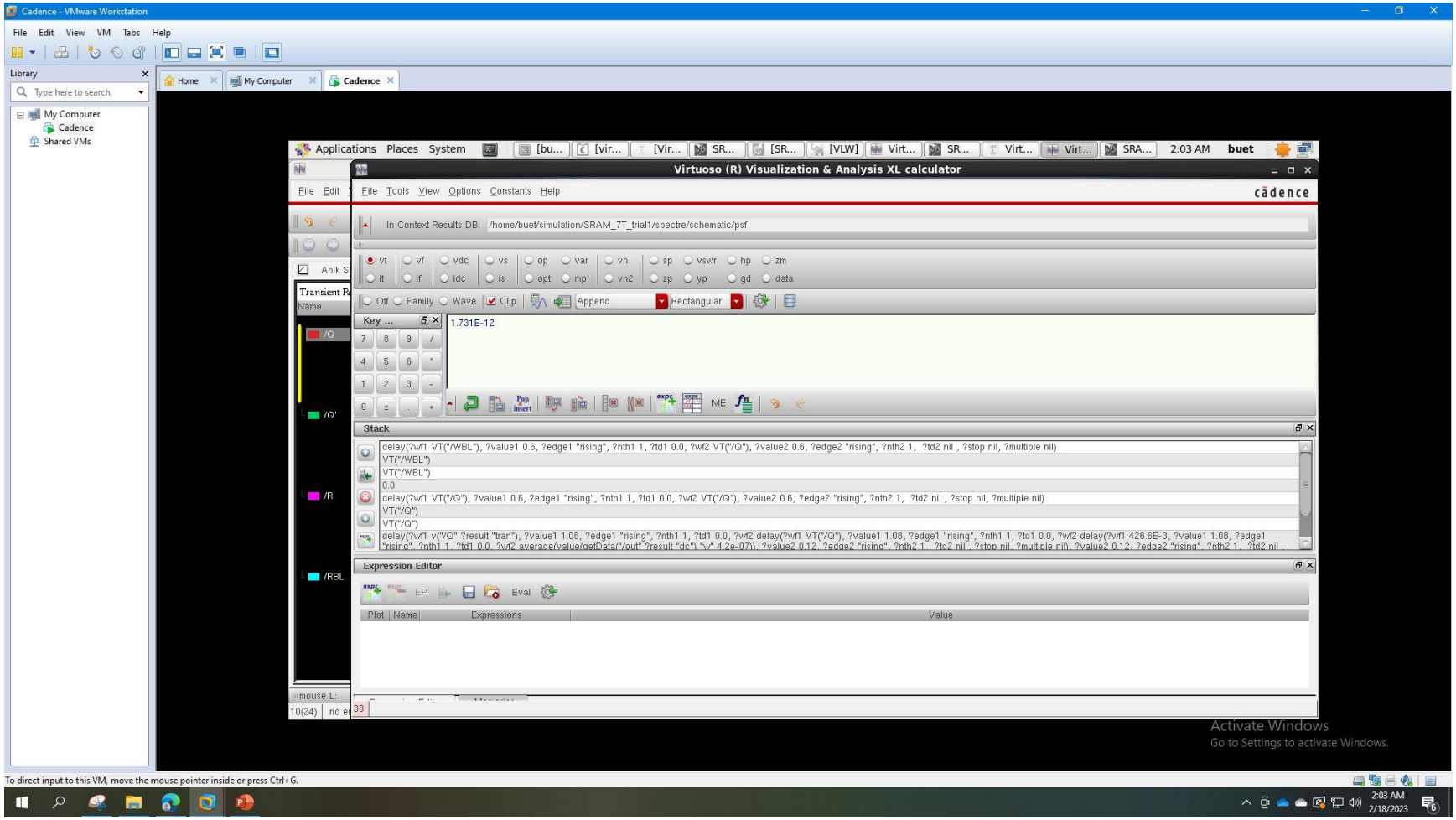
Cadence - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Cadence
Shared VMs
Home
My Computer
Cadence
Applications Places System
buet@cadenc...
[virtuoso]
SRAM_7T_trial1
Virtuoso® An...
[/home/buet/s...
Virtuoso (R) V...
11:28 PM
buet
Browse and run installed applications
Virtuoso (R) Visualization & Analysis XL
File Edit View Graph Axis Trace Marker Measurements Tools Window Browser Help
cadence
Layout Auto
Workspace: Classic
Data Point
family
Anik SRAM_7T_trial1 schematic
Transient Response
Name
Vis
/WL
/WBL
/Q
/Q'
V (V)
time (ns)
0.0
50.0
100.0
150.0
200.0
mouse L:
M:
R:
5(9)
no error
Activate Windows
Go to Settings to activate Windows.
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
11:28 PM
2/17/2023

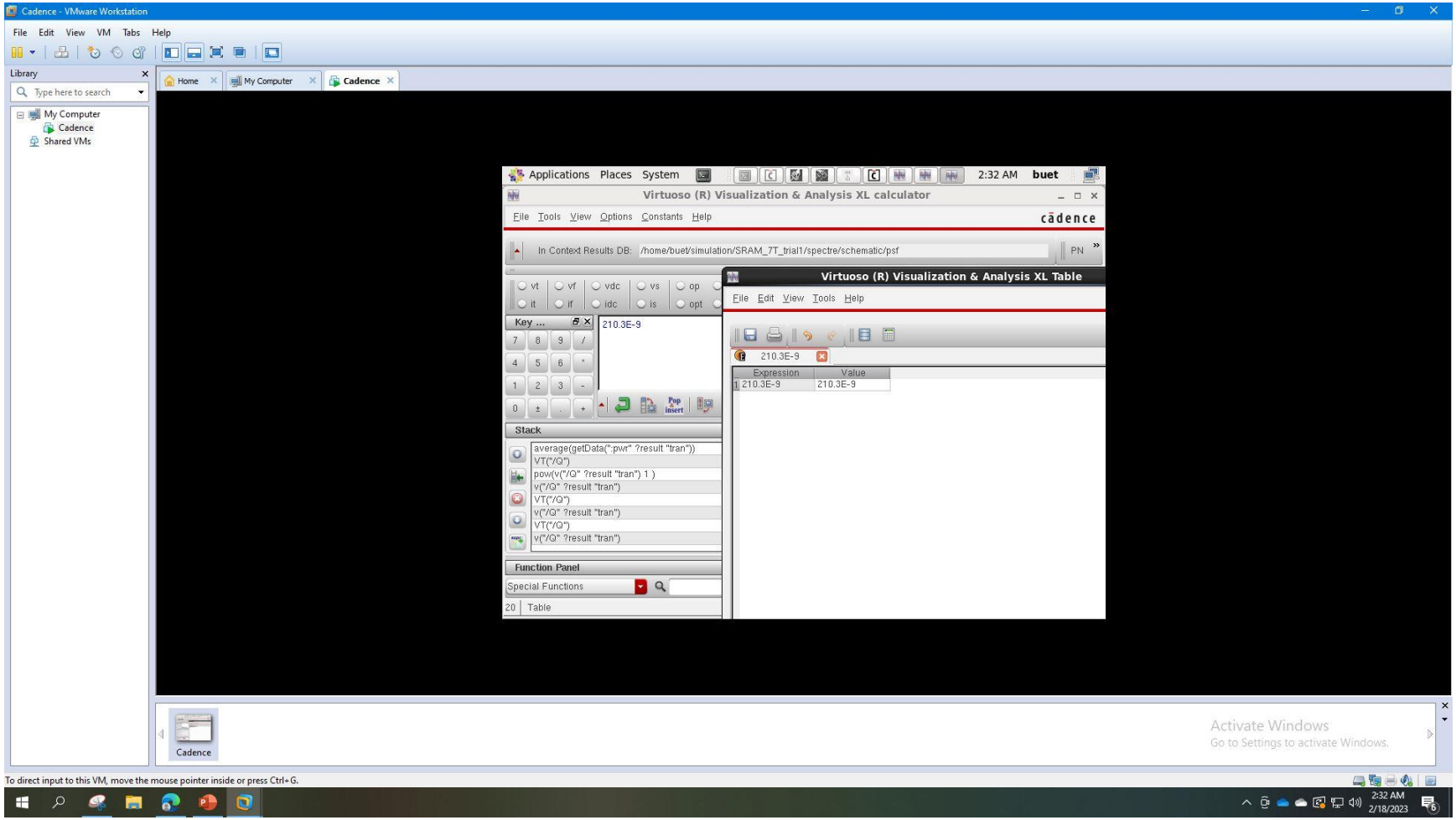
Cadence - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Cadence
Shared VMs
Home
My Computer
Cadence
Applications Places System
buet@cadenc...
[virtuoso]
SRAM_7T_trial1
[Virtuoso® A...
[/home/buet/s...
Virtuoso (R) V...
11:40 PM
buet
Virtuoso (R) Visualization & Analysis XL
File Edit View Graph Axis Trace Marker Measurements Tools Window Browser Help
cadence
Layout Auto
Workspace: Classic
Data Point
family
Anik SRAM_7T_trial1 schematic
Transient Response
Name
Vis
/Q
/Q'
/R
/RBL
V (V)
1.25
.75
.25
-.25
1.5
1.0
0.0
50.0
100.0
150.0
200.0
time (ns)
mouse L:
M:
R:
5(9)
no error
Activate Windows
Go to Settings to activate Windows.
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
11:40 PM
2/17/2023


Cadence - VMware Workstation
Virtuoso® Layout Suite L Editing: Anik SRAM_7T_trial1 layout
SRAM_7T_trial1
vdd!
WL
WBL
RBL
gnd!
Activate Windows
Go to Settings to activate Windows.


Cadence - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Cadence
Shared VMs
Home
My Computer
Cadence
Applications Places System
buet@cad...
[virtuoso]
[Virtuoso...
SRAM_7T_...
SRAM_7T_...
[VLW]
1:12 AM
buet
Virtuoso® Layout Suite L Editing: Anik SRAM_7T_trial1 layout
Launch File Edit View Create Verify Connectivity Options Tools Window Assura Optimize Help
cadence
Workspace: Classic
Navigator
Default
Search
Name
I1 (n_sub)
I2 (p_sub)
INM0 (nmos1v)
INM1 (nmos1v)
INM2 (nmos1v)
INM3 (nmos1v)
INM4 (nmos1v)
Layers
AV NV AS NS
Metal1 drawing
All Valid Layers
Used Layers Only
Search
Layer Purpose V S
Poly drawing
Pimp drawing
Objects
Object V S
Shapes
Circle/Elli...
Donut
Label
Path
Objects
Guides
SRAM_7T_trial1
vejal_4in
SRAM_7T_trial1
vdd!
WL
WBL
RBL
gnd!
No DRC errors found.
Close
mouse L: mouseSingleSelectPt() _leiLMBPress()
M: vuiDRCRun()
R: _lxHiMousePopUp()
9(17)
Cmd:
Activate Windows
Go to Settings to activate Windows.
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
1:12 AM
2/18/2023

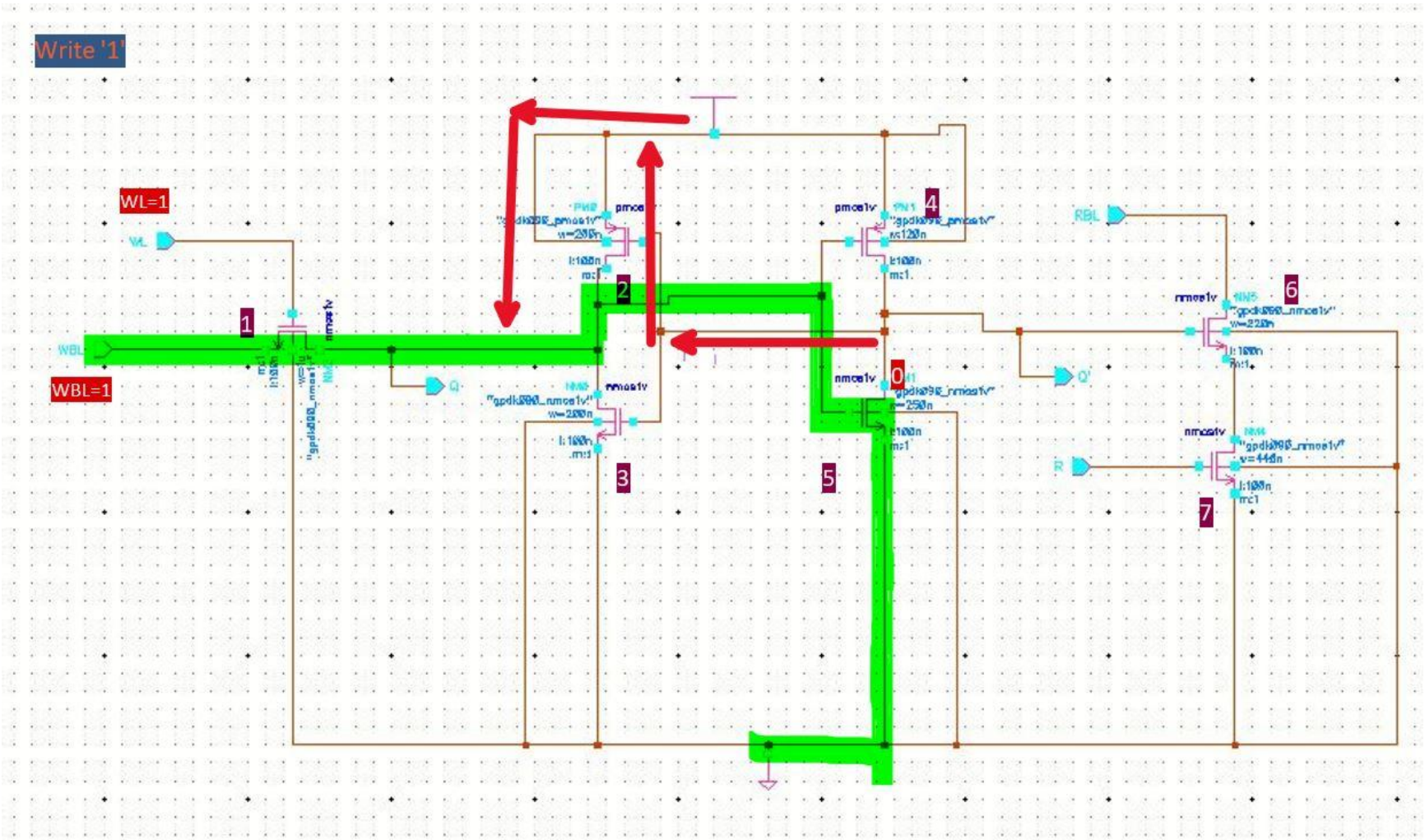

Cadence - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Cadence
Shared VMs
Home
My Computer
Cadence
Applications Places System
buet@cad...
[virtuoso]
[Virtuoso...
SRAM_7T_...
SRAM_7T_...
[VLW]
Run: "prac...
1:13 AM
buet
Browse and run installed applications
Virtuoso® Layout Suite L Editing: Anik SRAM_7T_trial1 layout
Launch File Edit View Create Verify Connectivity Options Tools Window Assura Optimize Help
cadence
Workspace: Classic
Navigator
Default
Search
SRAM_7T_trial1
vejal_4in
SRAM_7T_trial1
Run: "practice1"
Run: "practice1" from
/home/buet/
Schematic and Layout Match.
You currently have an open run (project).
Do you want to close current project and view the results of new run?
Summary of LVS Issues
Extraction Information:
0 cells have 0 mal-formed device problems
0 cells have 0 label short problems
0 cells have 0 label open problems
Comparison Information:
0 cells have 0 Net mismatches
0 cells have 0 Device mismatches
0 cells have 0 Pin mismatches
0 cells have 0 Parameter mismatches
Yes
No
Help
Objects
Guides
mouse L: mouseSingleSelectPt() _leiLMBPress()
M: vuiLVSRun()
R: _lxHiMousePopUp()
Cmd:
Activate Windows
Go to Settings to activate Windows.
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
1:13 AM
2/18/2023

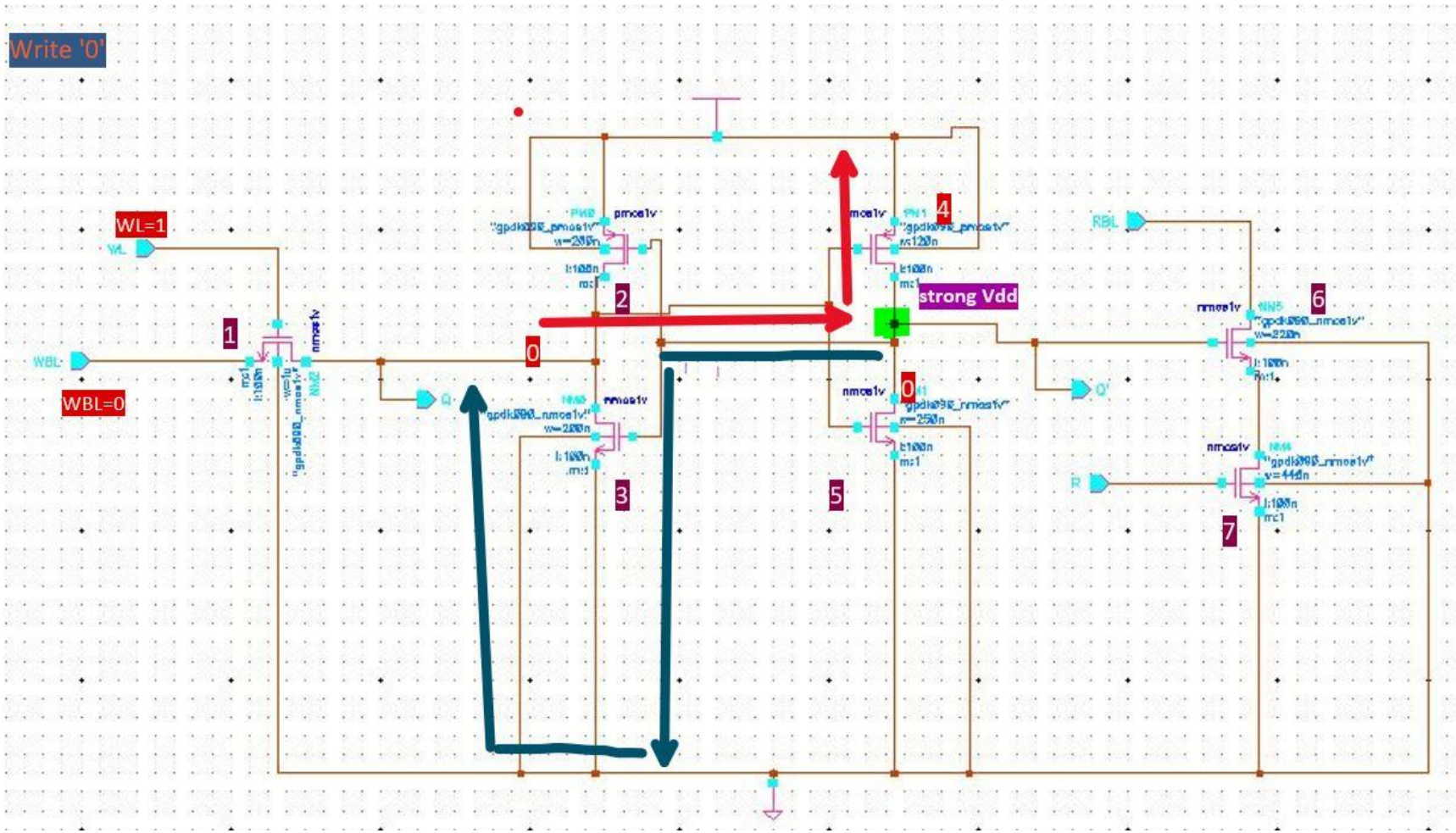

Cadence - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Cadence
Shared VMs
Home
My Computer
Cadence
Applications Places System
2:03 AM buet
Virtuoso (R) Visualization & Analysis XL calculator
File Tools View Options Constants Help
cadence
In Context Results DB: /home/buet/simulation/SRAM_7T_trial1/spectre/schematic/psf
Append
Rectangular
Key ...
1.731E-12
Stack
delay(?wf1 VT("/WBL"), ?value1 0.6, ?edge1 "rising", ?nth1 1, ?td1 0.0, ?wf2 VT("/Q"), ?value2 0.6, ?edge2 "rising", ?nth2 1, ?td2 nil , ?stop nil, ?multiple nil)
VT("/WBL")
VT("/WBL")
0.0
delay(?wf1 VT("/Q"), ?value1 0.6, ?edge1 "rising", ?nth1 1, ?td1 0.0, ?wf2 VT("/Q"), ?value2 0.6, ?edge2 "rising", ?nth2 1, ?td2 nil , ?stop nil, ?multiple nil)
VT("/Q")
VT("/Q")
Expression Editor
Eval
Plot
Name
Expressions
Value
/Q
/Q'
/R
/RBL
Activate Windows
Go to Settings to activate Windows.
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
2:03 AM
2/18/2023


Cadence - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Cadence
Shared VMs
Home
My Computer
Cadence
Applications Places System
2:32 AM buet
Virtuoso (R) Visualization & Analysis XL calculator
File Tools View Options Constants Help
cadence
In Context Results DB: /home/buet/simulation/SRAM_7T_trial1/spectre/schematic/psf
PN
vt vf vdc vs op
it if idc is opt
Key ...
210.3E-9
Stack
average(getData(":pwr" ?result "tran"))
VT("/Q")
pow(v("/Q" ?result "tran") 1)
v("/Q" ?result "tran")
VT("/Q")
v("/Q" ?result "tran")
VT("/Q")
v("/Q" ?result "tran")
Function Panel
Special Functions
20 Table
Virtuoso (R) Visualization & Analysis XL Table
File Edit View Tools Help
210.3E-9
Expression Value
1 210.3E-9 210.3E-9
Cadence
Activate Windows
Go to Settings to activate Windows.
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
2:32 AM
2/18/2023

Truth Table For writing '1':

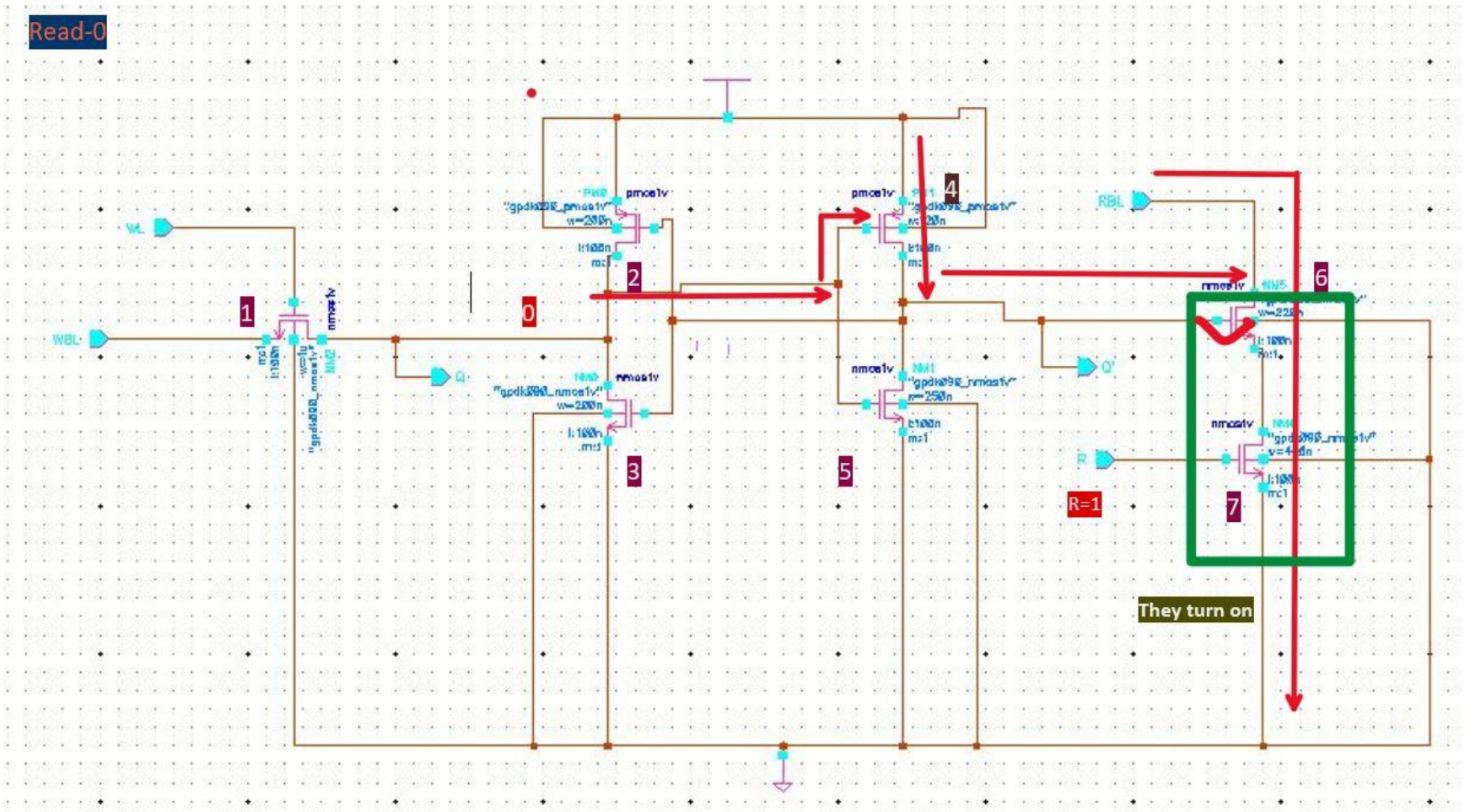
WL	WBL	Q	Q'
0	0	0	1
0	1	0	1
1	0	0	1
1	1	1	0

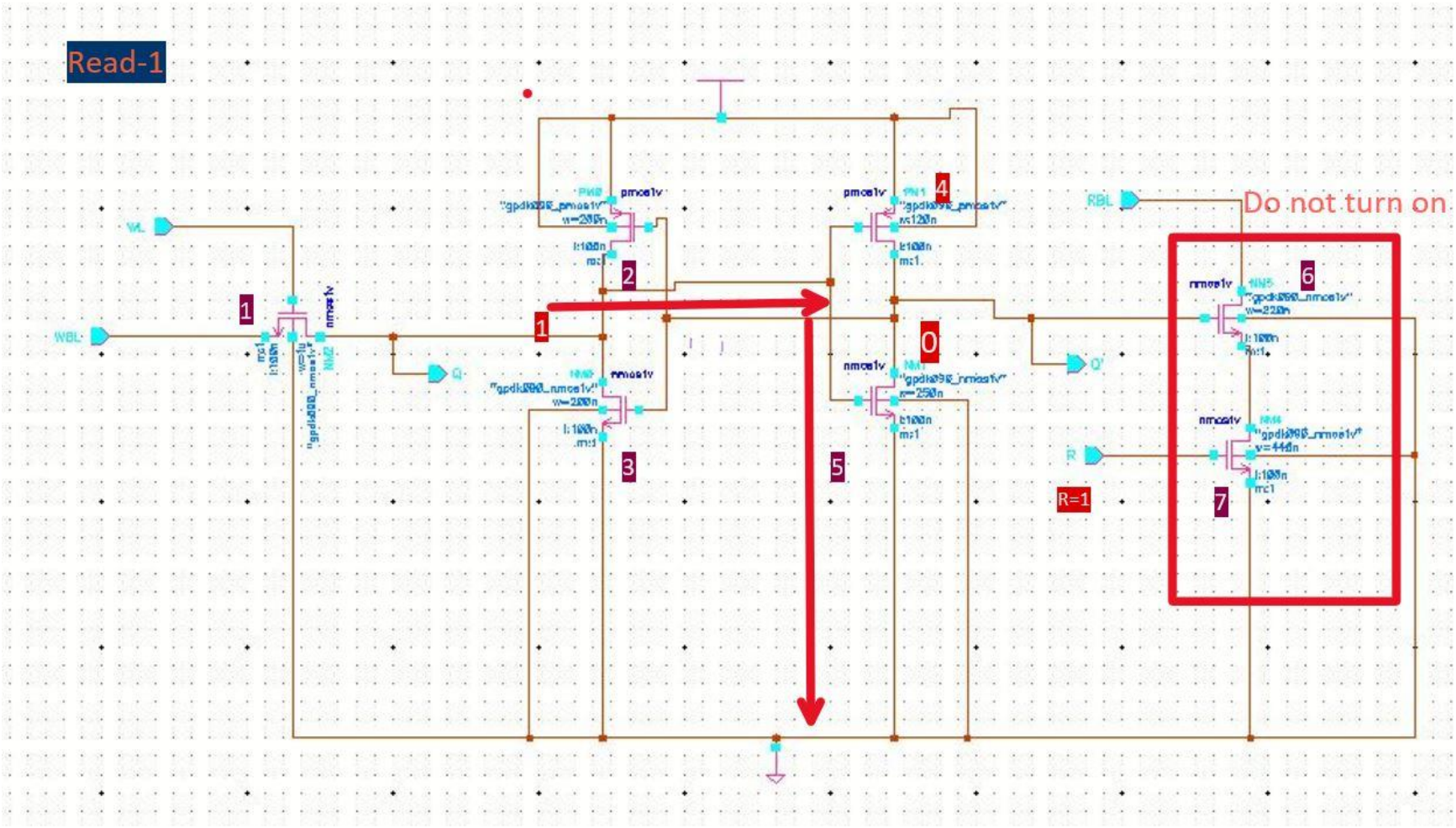

Write '1'
WL=1
WBL=1
WBL
Q
Q'
RBL
R
1
2
3
4
5
6
7
0


Write '0'
WL=1
WBL
WBL=0
strong Vdd
RBL
0
1
2
3
4
5
6
7

Truth Table For Reading '1':

WL	WBL	Q	Q'
0	0	0	1
0	1	0	1
1	0	0	1
1	1	1	0


Read-0
WL
WBL
Q
Q'
RBL
R
R=1
0
1
2
3
4
5
6
7
They turn on


Read-1
Do not turn on
WL
WBL
RBL
Q
Q'
R
R=1
1
2
3
4
5
6
7
0