

C-AD Controls

John Morris Time Meeting 2/5/13

Some things you should know about our Linux OS upgrade and working at Controls consoles in the field

- Some background
- Info about field consoles
- Summary slide (all you REALLY need to know)

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Some background

Most Controls Linux computers (servers and consoles) are now running

*Red Hat Enterprise Linux Workstation release **6.3** (Linux WS 6)*

Some of our computers are still running an older version like

*Red Hat Enterprise Linux Client release **5.7** (Linux WS 5)*

because

- they have some special hardware or software that complicates the upgrade process
- they are older machines that have compatibility problems with the new OS
- we haven't gotten the upgrade scheduled yet

Type ***WSversion*** at a command prompt and you should see either

WS6 : Red Hat Enterprise Linux Workstation release 6.3 (Santiago)

or

WS5 : Red Hat Enterprise Linux Client release 5.7 (Tikanga)

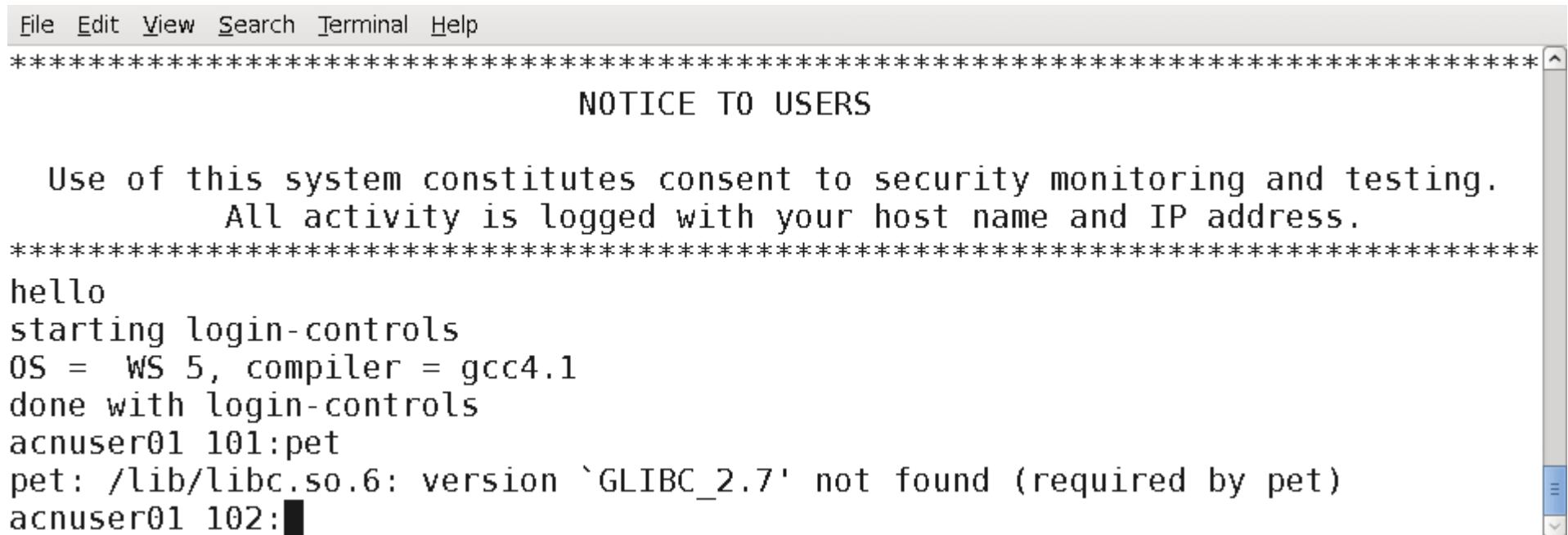
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C++ Programs built on WS5 machines run on
WS6 BUT...

Programs built on WS6 do NOT run on WS5

They do something like this if you try



```
File Edit View Search Terminal Help
*****
NOTICE TO USERS

Use of this system constitutes consent to security monitoring and testing.
All activity is logged with your host name and IP address.
*****
hello
starting login-controls
OS = WS 5, compiler = gcc4.1
done with login-controls
acnuser01 101:pet
pet: /lib/libc.so.6: version `GLIBC_2.7' not found (required by pet)
acnuser01 102:█
```

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Up until now, we have been

- releasing programs built for WS5
- testing programs built for WS6

We want to get out of this mixed mode

We have a high degree of confidence in apps built for WS6 based on

- test experience so far
- experience in past OS upgrades

Starting Wednesday (2/6) we will begin releasing programs built for WS6

If you work at a WS6 console (like the consoles in MCR), you shouldn't notice the change

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If you are working at a console that is still at the WS 5 level

- Programs will display at your console but run from a WS6 host
- StartUp will do that for you automatically
- Typing StartUp on a command line runs StartUp from a WS6 host

The screenshot shows the C-AD Controls application window. The title bar reads "Application PPM" and "Help". The window is divided into several sections:

- Find:** A search bar with a cursor.
- Console: auxiliary**: A list of menu items including "start ...", "stop ...", "check ...", "diagnostics ...", "read log files ...", "console description", "change console PPM # ...", "choose new console ...", and "exit".
- Message Area**: A large text area displaying the following output:

```
Reading console_file for auxiliary ...

StartUp V3.0 for Linux Workstations
Console Name: auxiliary
Console Directory: /operations/app_store/Consoles/auxiliary/
StartUp Running On: acnlin66.pbn.bnl.gov
X Display: localhost:11.0

*****

                WS6                                WS6

                Red Hat Enterprise Linux Client release 6.3

*****
```
- Display:** A dropdown menu set to "this screen" and a checkbox for "Start in xterm".

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If you are working at a console that is still at the WS 5 level

- Programs will display at your console but run from a WS6 host
- Typing '*run <programName>*' on a command line will do it, too

File Edit View Search Terminal Help

```
cscompute01 115:  
cscompute01 115:run pet  
OS: 5.7  
Running program on acnlin66.
```

File Edit View Search Terminal Help

```
acnlin23 111:run pet &  
[1] 13793  
acnlin23 112:OS: 6.3  
Running program on local host. 'run' command not necessary.
```

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Other things to note

- The remote StartUp and *run* command will also work at our very old Tektronix Xterminals
- NX server acnuser01 is being upgraded to WS6 tonight (2/5/13)
- Wyse terminals need to be reset/configured to work with WS6 hosts (should be complete by the end of the day tomorrow)

The screenshot displays a Linux desktop environment with a blue background. In the top-left corner, there is a sidebar with icons for 'acnline66', 'acnuser02', 'acnuser03', and 'Terminal'. The main window is titled 'General Purpose Monitor' and is split into two panes. The left pane shows a 'GPM Monitor Tree' with a tree view of various monitoring components, including Tandem, Linac, EBIS, Booster, Ags, ATR, RHIC, MCR, Clyde, Jeff, Site_Monitoring, Development, Scratch, DeathRow, FunctionEditor, pet, CellFiles, and Old_monitors. The right pane shows a list of monitoring files, such as '!!!!NewSnapshot.mon', '!!!!tester.mon', '!!LumiDecay394.mon', and '!!LumiDecay39443.mon'. Below the list is a 'Filter: *.mon' field. In the bottom-right corner, there is an 'xterm' terminal window with a yellow background, displaying the following text:

```
hello
starting login-controls
done with login-controls
acnuser02.pbn.bnl.gov 101:PrintUtility &
[1] 2437
acnuser02.pbn.bnl.gov 102:pet &
[2] 2448
acnuser02.pbn.bnl.gov 103:Gpm &
[3] 2450
acnuser02.pbn.bnl.gov 104:StartUp &
[4] 2454
acnuser02.pbn.bnl.gov 105:█
```

In the bottom-right corner of the desktop, there is a logo for 'Linux V6' with a checkered flag and the text 'WYSE' below it. The taskbar at the bottom shows the 'Start' button, an 'xterm' icon, a 'pet' icon, and a 'General Purpose Moni...' icon. The system tray on the right shows the time as '10:59 AM'.

All you REALLY need to know

- Start programs from StartUp and it will “*do the right thing*”
- At some consoles, you may need to type '*run <programName>*' if you want to start programs at a command prompt
- This presentation will be posted in the Controls Wiki *What's New* section
- If you have problems, call for help