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9/08

Register on the OIM. at <http://oim.grid.iu.edu/oim/home>.

Got my certificate to operate on cluster.

Basics command used in Linux

ls: list the files and directories

ls -a: List the all(hidden) files and directories

mkdir: make new directory

rm dir: delete the directory

less: to open any file or directory

chmod: to change the file's or directory's priority

r: readable w: writable x: executable

u: user g: group o: anyone

to add use \$ chmod ugo+rw // + sign used to add the priorities

to remove \$ chmod go-w // - sign to remove the priority

cd: change the directory

cd / .. to go 1 level up

pwd: to see the current path

chown: change the file owner and group

cp: copy the file or directory content.

vdt-conrol: enable and disable VDT services

echo: to check the path of the directory

mv : to move file from one folder to other folder

09/15/2011

Yipeeee Today I got admin authority, I'm root user now.

Today we were started working on Code::Blocks installation

http://wiki.codeblocks.org/index.php?title=Installing_Code::Blocks_from_source_on_RPM_based_distributions

Installation requirements:

1. Code::Blocks requires GTK+2.x version.

step 1: check whether you system has GTK+2 version

```
find / -name "gtk*"      /* after search word to see any version of GTK
Or find / -name "*gtk"  //general search * before the search word
```

we found that we have gtk 2.0pc version, so followed the next step

2. Install Development Tools

The following tools should be install before starting:

- zip
- update-desktop-file(only on SESU)
- make
- gettext
- autoconf>=2.5
- automake>=1.7
- libtool>=1.4
- m4
- intltool
- gcc-c++
- libstdc++-devel

In Fedora /CentOS this can be done with.

```
su -c 'yum groupinstall "Development Tools"'
su -c 'yum install intltool'
```

We are working on CentOS 5 and will have most of the tools, hence

To check whether we have these tools we tried various command

`yum groupinfo "Development Tools"`

```
yum find "development tools"
```

Not find any matches

So we give command

```
yum info intltool
```

we found this tool to be installed in our system, so similary we check for tool

```
yum info zip
yum info make
yum info gettext
yum info autoconf
yum info automake
yum info libtool
yum info m4
yum info intltool
yum info gcc-c++
yum info libstdc++-devel
```

we avoid second tool to check i.e. update-desktop-file as it recommended for SESU and we are working on CentOS

3. we already have CentOS 5 version hence we skip this step to upgrade the CentOS version

4. Setup RPM environment

Before we start, install

- `rmp-build`

To find our RPM top dir, we set variable by

```
RPM_TOPDIR=`rpm --eval %{_topdir}`
echo $RPM_TOPDIR
```

5. Non-root rpmbuild environment

it is recommended not to use root acoount.

to set the minimal user build environment

```
cd
mkdir rpm
echo "%_topdir $HOME/rpm" >> .rpmmacros
mkdir /tmp/$USER/rpm
echo "%_tmppath /tmp/$USER/rpm" >> .rpmmacros
cd rpm
mkdir SPECS SOURCES BUILD RPMS SRPMS
RPM_TOPDIR=`rpm --eval %{_topdir}`
```

During the execution of above command, found error in command 4.

as it is trying to create multiple directories at the same time but it is not happening, so we modified 4 command as follows

so we first creat USER directory

```
mkdir /tmp/$USER
```

then we creat rpm

```
mkdir /tmp/$USER/rpm
```

after this we followed command from 5 onwards.

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5. Install wxWidgets 2.6.x

First check where we have this version or not

```
find / -name "wxGTK*"
```

Unfortunately we didn't find anywhere so stop the process using **Ctrl c** then again we search libwxgtk but no luck.

So next step is to install wxGTK-2.6.3

click the following link to download wxGTK-2.6.3.tar.gz

<http://prdownloads.sourceforge.net/wxwindows/wxGTK-2.6.3.tar.gz>

Then to upload this on cluster

I use SSH Secure shell (SSH Secure File Transfer Client -SFTC)

- connect to remote host
- brows the file that I want to upload (on left side)
- drag that file on right side(uploading the file)
- File is uploaded in my home directory

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last update is we upload the wxgtk-2.6.3.tar.gz on cluster

But we unable to untar it

so we just removed it from the home directory

The we downloaded the wxgtk-2.6.4

Uploaded the wxgtk-2.6.4 on cluster

then we make the directory devel

```
mkdir ~/devel
```

then

```
cd ~/devel
```

right now I'm at devel, to move wxgtk-2.6.4.tar.gz give co~mmand

mv wxgtk-2.6.4 . // . is use as we are moving file from other location to the location where we are at present.

then to untar the file

```
tar xzf wxGTK-2.6.3.tar.gz
```

when File is untared it created a directory.

check with ls command

as we downloaded the 2.6.4 version we didn't downloaded the patches.

we need to download patches if we are using 2.6.3 version

Then we skip the steps related to patches and move further to build wxWidgets

we have created the new directory so that we can easily rebuild with different options.

we build monolithic library

```
mkdir build_gtk2_shared_monolithic_unicode
```

```
cd build_gtk2_shared_monolithic_unicode
```

```
../configure --prefix=/opt/wx/2.6\
```

```
    --enable-xrc /
```

```
    --enable-monolithic /
```

```
    --enable-unicode
```

after typing this command the error occurs so we try to write all command in one line considering the / as new line character

Bingo!! it works

so we write the command as

```
../configure --prefix=/opt/wx/2.6 --enable-xrc --enable-monolithic --enable unicode
```

Then we type

make

showed error... though the directoty showed the make.file. it say error that make file does not exist.

The error says

```
*** could not run GTK+ test program, check why
```

```
*** the test program failed to compile or link. See the file
config.log for the exact error that occurred. This usually means the
GTK+ is incorrectly in stalled.
```

Configure: error:

The development files for GTK+ were not found. For GTK+ 2, please ensure that pkg-config is in the path and that gtk+-2.0.pc is installed.

Also check that the libraries returned by 'pkg-configure gtk+-2.0 --libs' or 'gtk-config --libs' are in the LD_LIBRARY_PATH or equivalent

to check with LD_LIBRARY_PATH// since its envirmetal user it is always written in caps and to find it \$ is followed by the command echo \$LD_LIBRARY_PATHusing quotes are direct commands

so next to check with libraries

```
pkg-config gtk+-2.0 --libs
```

it shows number of files.. so we started checking or finding each file using

```
>find / -name "    "
```

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Continue with finding lib

checked all filesno luck :(

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du: disk uses

Upload wxGTK-2.6.3.tar.gz again

try to untar but unable to do so

errors:

tar: skipping to next header

tar: archive contains obsolescent base-64 headers

gzip: stdin: invalid compress data--crc error

gzip: stdin: invalid compress data--length error

Finally we did yum command

Use install command to show wxGTK available version and to install it.

but here we required 27M to store

Xenia removed some file to create space to install it.

We install wx GTK

then we find whether we have subversions using

yum find subversion

we have subversion; version 1.6 >=1.4 which is required.

Now to install codebolcks

we prepare SRPM package from SVN

go to trunk

>cd trunk

>./bootstrap

configure.in:80: error: possible undefined macro: AM_PATH_WXCONFIG

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Update root version on cluster

existing version is 5.19

Finally after trying everything, still we are getting errors in config file. DR. Holhmann told us to scrap the code blocks project so Finally we stopped working on it :(:(

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Started working on Amore

Lean basic to use amore for data acquisition and to analyze it.

For specific instructions refer the document on AMORE.

11/01

New NAS01 is beeping like anything.

ME and Xenia are trying to understand what has happened.

Red LED is continuously glowing on Drive 10.

We try to replace it but nothing work out.

11/02

We again went to High Bay.

Today At least we able to confirm that the beeping problem is due to failure of the drive 10. It shows disconnected. We are trying to work on it. Xenia sent mail to silicon mechanics about the problem we faced in High Bay.

error in ana and mc

vdt- control -- off and the on to CE and SE

In CE it was fine

In SE, when it turn off shows an error

ps- ef : processes

ssh dev-0-0 press entre to go to storage element// it is necessary as we on the frontend(CE)

or ssh.uscms1-SE.fltech-grid3.fit.edu

type exit to come out from storage element to frontend

crontab: /etc/cron.d