

VectorCAST_Setup.txt

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Revision History

VV.vv.DOYyy.bb (dd MMM yy) - Initial Creation/Development Update/Maintenance Update

1.00.05018.xx (19 Feb 18) - Initial Creation {J. Laccone}
Added header, added reference data

Reference

The Linux loader

<https://grahamwideman.wordpress.com/2009/02/09/the-linux-loader-and-how-it-finds-libraries/>

Linux secondary library dependencies

<http://www.kaizou.org/2015/01/linux-libraries/>

Linux under-linking library issues

https://wiki.mageia.org/en/Underlinking_issues_in_packaging

Prerequisites - Execute The Following In A Terminal Window As superuser

1. Open a terminal window
2. Login as the superuser (root on CentOS/RHEL)
3. Use yum to install required components

```
yum --noplugins --enablerepo "*" --disablerepo "*media*" install fontconfig.i686 \
  freetype.i686 freetype-devel.i686 fontconfig-devel.i686 libstdc++.i686 \
  libXrender.i686 glib2.i686
```

VectorCAST Program

1. Open a terminal window
2. Make a directory for VectorCAST

```
mkdir ~/vcast
```

3. Change directory to the location the archived program is stored

```
cd <vectorcast-archive-dir>
```

4. Copy the archived program to the program directory

```
cp vcast.linux.64.2.tar.gz ~/vcast
```

5. Expand the archive into a the directory

```
tar -xzvf vcast.linux.64.2.tar.gz
```

VectorCAST Environment Variables

1. In either the .bashrc file or a start up shell script, add the following lines (replace <svn-working-dir-for-trunk> with the necessary path)

```
# ===== Variables For VectorCAST =====  
# Program Operation  
export VECTORCAST_DIR=$HOME/vcast  
export VCAST_DISABLE_TEST_MAINTENANCE=1
```

```
# ----- Licensing -----  
# IRAD FLEXlm server  
#export VECTOR_LICENSE_FILE=7650@172.24.22.167
```

```
# Training License  
export VECTOR_LICENSE_FILE=$VECTORCAST_DIR/vector-DEMO.lic
```

```
# The Target Server (this is the RMG in Herndon)
```

```
export VCAST_ARM_TGT_IPADDR=172.20.30.119
```

```
# Source Files
```

```
export VCAST_VCS21_SRC_BASE=<svn-working-dir-for-trunk>/ccu/base
```

```
export VCAST_SUPPORT_FILES=$VCAST_VCS21_SRC_BASE/tools/vcast/scripts
```

```
export VCAST_VCS21_SRC_DM8168=<svn-working-dir-for-trunk>/ccu/DM8168
```

```
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$VCAST_VCS21_SRC_BASE/third_party/agent++/lib/i386:$VCAST_VCS21_SRC_BASE/third_party/snmp++/lib/i386
```

2. Add the following alias to either the .bashrc or the .bash_aliases file

```
alias vc='cd $VCAST_VCS21_SRC_BASE/tools/vcast; $VECTORCAST_DIR/vcastqt -lc&'
```

trunk Setup

1. Using subversion, pull a copy of the trunk down to a local working directory
2. Build the targets in the trunk, to ensure no build errors
3. Build the i386 shared objects

```
cd <path-to-local-svn-working-dir>/trunk/ccu/base/build/core  
./sharedlibs_build.sh all i386
```

Library Cache Search

1. To determine if there are libraries already installed on your system, execute the following commands

```
ldconfig -p | grep libagent  
ldconfig -p | grep libsnmp
```

Display Dependencies In A Library

1. To display the list of dependency libraries for a specific library, execute the following command

```
ldd -v <library-name>
```

Display Unused Dependencies In A Library

1. To display the list of unused dependency libraries for a specific library, execute the following command

```
ldd -u -r <library-name>
```

Display Under-linking (Direct Case) In A Library

1. To display direct case under-linking (undefined symbols) in a shared library, execute the following command

```
ldd -r <library-name> >/dev/null
```