

1. Declare a global variable for package in unixinstall.sh:

```
#global variable for all packages
export dbName
export curlName
export xmlName
export pcreName
export makedependName
```

2. Implement a getXXXName function and put the name of package into the global variable

```
getPcreName()
{
    case "$osType" in
        "$osUbuntu")
            result=`echo $password | sudo -S apt-cache search ^libpcre[0-9]*-dev`
            pcreName=`echo $result | awk '{ print $1; }'`
            export pcreName ;;
        "$osDebian")
            result=`echo $password | sudo -S apt-cache search ^libpcre[0-9]*-dev`
            pcreName=`echo $result | awk '{ print $1; }'`
            export pcreName ;;
        "$osFedora")
            pcreName="pcre-devel"
            export pcreName ;;
        "$osSuse")
            pcreName="pcre-devel"
            export pcreName ;;
        "$osMandriva")
            pcreName="libpcre-devel"
            export pcreName ;;
        esac
    }
}
```

3. Then implement the corresponding function to install the package. Call this function in the script where you need it.

```
installLibpcredev()
{
    getPcreName
    case "$osType" in
        "$osUbuntu")
            if dpkg -l | grep -q $pcreName ; then
                echo "\n$pcreName - package already installed."
```

```

else
    echo $password | sudo -S apt-get install -y $pcreName
fi ;;
"$osDebian")
    if dpkg -l | grep -q $pcreName ; then
        echo "\n$pcreName - package already installed."
    else
        echo $password | sudo -S apt-get install -y $pcreName
    fi ;;
"$osFedora")
    if rpm -q $pcreName ; then
        echo ""
        echo "$pcreName - package already installed."
    else
        echo $password | sudo -S yum install -y $pcreName
    fi ;;
"$osSuse")
    if rpm -q $pcreName | grep "is not installed" ; then
        echo $password | sudo -S zypper install -y $pcreName
    else
        echo "$pcreName - package already installed."
    fi ;;
"$osMandriva")
    echo $password | sudo -S urpmi --auto $pcreName ;;
esac
}

```

For instance, the above is called by the installReg function, which in turn is called by installFeature():

```

installReg()
{
    installLibpcredev
}

#function to install features with arg $1, which is the name of feature
installFeature()
{
    featureName=$1

    if [ "$featureName"x = "db"x ] ; then
        installDB
    fi
}

```

```
if [ "$featureName"x = "http"x ] ; then
    installHTTP
fi

if [ "$featureName"x = "xml"x ] ; then
    installXML
fi

if [ "$featureName"x = "reg"x ] ; then
    installReg
fi
}
```