

Hadoop2.4.0 重新编译 64 位本地库

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环境：虚拟机 VirtualBox，操作系统 64 位 CentOS 6.4

下载重新编译需要的软件包

apache-ant-1.9.4-bin.tar.gz

findbugs-3.0.0.tar.gz

protobuf-2.5.0.tar.gz

apache-maven-3.0.5-bin.tar.gz

下载 hadoop2.4.0 的源码包

hadoop-2.4.0-src.tar.gz

解压源码包

```
[grid@hadoopMaster01 ~]$ tar -zxvf hadoop-2.4.0-src.tar.gz
```

```
[grid@hadoopMaster01 ~]$ ls -lt
总用量 209436
-rwxr-xr-x 1 root root 15353709 7月 28 11:26 hadoop-2.4.0-src.tar.gz
-rwxr-xr-x 1 root root 138943699 7月 28 11:26 hadoop-2.4.0.tar.gz
-rwxr-xr-x 1 root root 5564593 7月 28 11:26 apache-ant-1.9.4-bin.tar.gz
-rwxr-xr-x 1 root root 8893609 7月 28 11:26 findbugs-3.0.0.tar.gz
-rwxr-xr-x 1 root root 2401901 7月 28 11:26 protobuf-2.5.0.tar.gz
-rwxr-xr-x 1 root root 5144659 7月 28 11:26 apache-maven-3.0.5-bin.tar.gz
drwxr-xr-x 16 grid grid 4096 7月 27 23:05 hadoop-1.2.1
-rwxr-xr-x 1 root root 38096663 7月 27 22:22 hadoop-1.2.1-bin.tar.gz
drwxr-xr-x 2 grid grid 4096 7月 27 15:54 桌面
drwxr-xr-x 2 grid grid 4096 7月 27 15:39 公共的
drwxr-xr-x 2 grid grid 4096 7月 27 15:39 模板
drwxr-xr-x 2 grid grid 4096 7月 27 15:39 视频
drwxr-xr-x 2 grid grid 4096 7月 27 15:39 图片
drwxr-xr-x 2 grid grid 4096 7月 27 15:39 文档
drwxr-xr-x 2 grid grid 4096 7月 27 15:39 下载
drwxr-xr-x 9 grid grid 4096 3月 31 17:15 hadoop-2.4.0
drwxr-xr-x 15 grid grid 4096 3月 31 17:07 hadoop-2.4.0-src
[grid@hadoopMaster01 ~]$
```

安装编译所需软件

安装 MAVEN

解压 apache-maven-3.0.5-bin.tar.gz 到/opt/目录

```
[root@hadoopMaster01 grid]# tar -zxvf apache-maven-3.0.5-bin.tar.gz -C /opt/
```

```
[root@hadoopMaster01 grid]# cd /opt/
[root@hadoopMaster01 opt]# ls
apache-maven-3.0.5  rh  VBoxGuestAdditions-4.3.12
[root@hadoopMaster01 opt]# cd apache-maven-3.0.5/
[root@hadoopMaster01 apache-maven-3.0.5]# ls
bin  boot  conf  lib  LICENSE.txt  NOTICE.txt  README.txt
[root@hadoopMaster01 apache-maven-3.0.5]# pwd
/opt/apache-maven-3.0.5
```

修改/etc/profile 配置，增加 MAVEN 环境配置

```

HOSTNAME=`/bin/hostname 2>/dev/null`
HISTSIZE=1000
if [ "$HISTCONTROL" = "ignoreboth" ] ; then
    export HISTCONTROL=ignoreboth
else
    export HISTCONTROL=ignoredups
fi

export PATH USER LOGNAME MAIL HOSTNAME HISTSIZE HISTCONTROL

export JAVA_HOME=/usr/java/jdk1.7.0_60
export CLASSPATH=.:$JAVA_HOME/lib:$JAVA_HOME/jre/lib:$JAVA_HOME/lib/tools.jar
export PATH=$JAVA_HOME/bin:$PATH

export MAVEN_HOME=/opt/apache-maven-3.0.5
export PATH=$PATH:$MAVEN_HOME/bin

# By default, we want umask to get set. This sets it for login shell
# Current threshold for system reserved uid/gids is 200
# You could check uidgid reservation validity in
# /usr/share/doc/setup-*/uidgid file
"/etc/profile" 85L, 2024C written

```

保存后使用 `source /etc/profile` 使修改配置即时生效

`[root@hadoopMaster01 apache-maven-3.0.5]# source /etc/profile`

使用 `mvn -v` 命令进行验证，如图所示表示安装配置成功

```

[root@hadoopMaster01 apache-maven-3.0.5]# mvn -v
Apache Maven 3.0.5 (r01de14724cdef164cd33c7c8c2fe155faf9602da; 2013-02-19 21:51:28+0800)
Maven home: /opt/apache-maven-3.0.5
Java version: 1.7.0_60, vendor: Oracle Corporation
Java home: /usr/java/jdk1.7.0_60/jre
Default locale: zh_CN, platform encoding: UTF-8
OS name: "linux", version: "2.6.32-358.el6.x86_64", arch: "amd64", family: "unix"
[root@hadoopMaster01 apache-maven-3.0.5]#

```

安装 ANT

解压 `apache-ant-1.9.4-bin.tar.gz` 到 `/opt/` 目录

`[root@hadoopMaster01 grid]# tar -zxvf apache-ant-1.9.4-bin.tar.gz -C /opt/`

```

[root@hadoopMaster01 grid]# cd /opt/
[root@hadoopMaster01 opt]# ls
apache-ant-1.9.4  apache-maven-3.0.5  rh  VBoxGuestAdditions-4.3.12
[root@hadoopMaster01 opt]# cd apache-ant-1.9.4/
[root@hadoopMaster01 apache-ant-1.9.4]# ls
bin  etc  fetch.xml  get-m2.xml  INSTALL  KEYS  lib  LICENSE  manual  NOTICE  README  WHATSNEW
[root@hadoopMaster01 apache-ant-1.9.4]# pwd
/opt/apache-ant-1.9.4
[root@hadoopMaster01 apache-ant-1.9.4]#

```

修改 `/etc/profile` 配置，增加 ANT 环境配置

```

HOSTNAME=`/bin/hostname 2>/dev/null`
HISTSIZE=1000
if [ "$HISTCONTROL" = "ignorespace" ] ; then
    export HISTCONTROL=ignoreboth
else
    export HISTCONTROL=ignoredups
fi

export PATH USER LOGNAME MAIL HOSTNAME HISTSIZE HISTCONTROL

export JAVA_HOME=/usr/java/jdk1.7.0_60
export CLASSPATH=.:$JAVA_HOME/lib:$JAVA_HOME/jre/lib:$JAVA_HOME/lib/tools.jar
export PATH=$JAVA_HOME/bin:$PATH

export MAVEN_HOME=/opt/apache-maven-3.0.5
export PATH=$PATH:$MAVEN_HOME/bin

export ANT_HOME=/opt/apache-ant-1.9.4
export PATH=$PATH:$ANT_HOME/bin

# By default, we want umask to get set. This sets it for login shell
# Current threshold for system reserved uid/gids is 200
# You could check uidgid reservation validity in
# /usr/share/doc/setup-*/uidgid file
if [ $UID -gt 199 ] && [ "`id -gn`" = "`id -un`" ]; then
    umask 002
else
    umask 022
fi

for i in /etc/profile.d/*.sh ; do
    if [ -r "$i" ] ; then
        if [ "${-#*i}" != "$-" ] ; then
            . "$i"
        else
            . "$i" >/dev/null 2>&1
        fi
    fi
done

unset i
unset -f pathmunge
[root@hadoopMaster01 apache-ant-1.9.4]#

```

保存后使用 `source /etc/profile` 使修改配置即时生效

```
[root@hadoopMaster01 apache-ant-1.9.4]# source /etc/profile
```

使用 `ant -version` 命令进行验证，如图所示表示安装配置成功

```

[root@hadoopMaster01 apache-ant-1.9.4]# ant -version
Apache Ant(TM) version 1.9.4 compiled on April 29 2014
[root@hadoopMaster01 apache-ant-1.9.4]#

```

安装 FINDBUGS

解压 `findbugs-3.0.0.tar.gz` 到 `/opt/` 目录

```
[root@hadoopMaster01 grid]# tar -zxvf findbugs-3.0.0.tar.gz -C /opt/
```

```

[root@hadoopMaster01 grid]# cd /opt/
[root@hadoopMaster01 opt]# ls
apache-ant-1.9.4  apache-maven-3.0.5  findbugs-3.0.0  rh  VBoxGuestAdditions-4.3.12
[root@hadoopMaster01 opt]# cd findbugs-3.0.0/
[root@hadoopMaster01 findbugs-3.0.0]# ls
bin  doc  lib  optionalPlugin  plugin  README.txt  src
[root@hadoopMaster01 findbugs-3.0.0]# pwd
/opt/findbugs-3.0.0
[root@hadoopMaster01 findbugs-3.0.0]#

```

修改 `/etc/profile` 配置，增加 FINDBUGS 环境配置


```

HOSTNAME=`/bin/hostname 2>/dev/null`
HISTSIZE=1000
if [ "$HISTCONTROL" = "ignorespace" ] ; then
    export HISTCONTROL=ignoreboth
else
    export HISTCONTROL=ignoredups
fi

export PATH USER LOGNAME MAIL HOSTNAME HISTSIZE HISTCONTROL

export JAVA_HOME=/usr/java/jdk1.7.0_60
export CLASSPATH=.:$JAVA_HOME/lib:$JAVA_HOME/jre/lib:$JAVA_HOME/lib/tools.jar
export PATH=$JAVA_HOME/bin:$PATH

export MAVEN_HOME=/opt/apache-maven-3.0.5
export PATH=$PATH:$MAVEN_HOME/bin

export ANT_HOME=/opt/apache-ant-1.9.4
export PATH=$PATH:$ANT_HOME/bin

export FINDBUGS_HOME=/opt/findbugs-3.0.0
export PATH=$PATH:$FINDBUGS_HOME/bin

# By default, we want umask to get set. This sets it for login shell
# Current threshold for system reserved uid/gids is 200
# You could check uidgid reservation validity in
# /usr/share/doc/setup-*/uidgid file
if [ $UID -gt 199 ] && [ "`id -gn`" = "`id -un`" ]; then
    umask 002
else
    umask 022
fi

for i in /etc/profile.d/*.sh ; do
    if [ -r "$i" ]; then
        if [ "${-#*i}" != "$-" ]; then
            . "$i"
        else
            . "$i" >/dev/null 2>&1
        fi
    fi
done

```

保存后使用 `source /etc/profile` 使修改配置即时生效

`[root@hadoopMaster01 apache-ant-1.9.4]# source /etc/profile`

使用 `findbugs -version` 命令进行验证，如图所示表示安装配置成功

```

[root@hadoopMaster01 ~]# findbugs -version
3.0.0
[root@hadoopMaster01 ~]# █

```

安装 PROTOBUF

编译 Hadoop 2.4.0，需要 `protobuf` 的编译器 `protoc`，一定要是 `protobuf 2.5.0` 以上
直接解压 `protobuf-2.5.0.tar.gz`

`[root@hadoopMaster01 grid]# tar -zxvf protobuf-2.5.0.tar.gz`

```

[root@hadoopMaster01 grid]# cd protobuf-2.5.0
[root@hadoopMaster01 protobuf-2.5.0]# ls
aclocal.m4  config.guess  configure  COPYING.txt  examples  install-sh  ltmain.sh  Makefile.in  protobuf.pc.in  src
autogen.sh  config.h.in  configure.ac  depcomp  generate_descriptor_proto.sh  install.txt  m4  missing  python  vsprojects
CHANGES.txt  config.sub  CONTRIBUTORS.txt  editors  gtest  java  Makefile.am  protobuf-lite.pc.in  README.txt
[root@hadoopMaster01 protobuf-2.5.0]# pwd
/home/grid/protobuf-2.5.0
[root@hadoopMaster01 protobuf-2.5.0]# █

```

安装 `protobuf`，依次执行如下命令

`[root@hadoopMaster01 grid]# cd protobuf-2.5.0`

`[root@hadoopMaster01 protobuf-2.5.0]# ls`

```

aclocal.m4      config.guess    configure      COPYING.txt    examples
install-sh     ltmain.sh      Makefile.in   protobuf.pc.in  src

```

```

autogen.sh    config.h.in    configure.ac    depcomp        generate_descriptor_proto.sh
INSTALL.txt   m4              missing         python          vsprojects
CHANGES.txt  config.sub      CONTRIBUTORS.txt editors          gtest
java          Makefile.am     protobuf-lite.pc.in README.txt

```

```

[root@hadoopMaster01 protobuf-2.5.0]# ./configure
[root@hadoopMaster01 protobuf-2.5.0]# make
[root@hadoopMaster01 protobuf-2.5.0]# make check
[root@hadoopMaster01 protobuf-2.5.0]# make install

```

使用 `protoc --version` 命令进行验证，如图所示表示安装配置成功

```

[root@hadoopMaster01 protobuf-2.5.0]# protoc --version
libprotoc 2.5.0
[root@hadoopMaster01 protobuf-2.5.0]#

```

安装依赖包

安装 `cmake,openssl-devel,ncurses-devel` 依赖包(root 用户且能够连上互联网)

```
[root@hadoopMaster01 ~]# yum install cmake
```

如下图表示安装成功

```

[root@hadoopMaster01 ~]# yum install cmake
Loaded plugins: fastestmirror, refresh-packagekit, security
base                                     3.7 kB  00:00
base/primary_db                         4.4 MB  00:31
extras                                  3.4 kB  00:00
extras/primary_db                       19 kB  00:00
updates                                 3.4 kB  00:00
updates/primary_db                     4.2 MB  00:43
Setting up Install Process
Resolving Dependencies
--> Running transaction check
--> Package cmake.x86_64 0:2.6.4-5.el6 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====================================================================================================================================
 Package Arch Version Repository Size
=====================================================================================================================================
Installing:
 cmake x86_64 2.6.4-5.el6 base 5.2 M
Transaction Summary
-----
Install 1 Package(s)
Total download size: 5.2 M
Installed size: 18 M
Is this ok [y/N]: y
Downloading Packages:
cmake-2.6.4-5.el6.x86_64.rpm | 5.2 MB 00:36
warning: rpmts_HdrFromFdno: Header V3 RSA/SHA256 Signature, key ID c105b9de: NOKEY
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6
Importing GPG key 0x105b9de:
 Userid : CentOS-6 Key (CentOS 6 Official Signing Key) <centos-6-key@centos.org>
 Package: centos-release-6-4.el6.centos.10.x86_64 (@anaconda-CentOS-201303020151.x86_64/6.4)
 From : /etc/pki/rpm-gpg/RPM-GPG-KEY-CentOS-6
Is this ok [y/N]: y
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
warning: RPMDB altered outside of yum.
Installing : cmake-2.6.4-5.el6.x86_64 1/1
Verifying : cmake-2.6.4-5.el6.x86_64 1/1

Installed:
cmake.x86_64 0:2.6.4-5.el6
Complete!
[root@hadoopMaster01 ~]#

```

```
[root@hadoopMaster01 ~]# yum install openssl-devel
```

如下图表示安装成功

```

* extras: mirrors.yun-idc.com
* updates: mirrors.yun-idc.com
Setting up Install Process
Resolving Dependencies
--> Running transaction check
--> Package openssl-devel.x86_64 0:1.0.0-27.e16 will be updated
--> Package openssl-devel.x86_64 0:1.0.1e-16.e16_5.14 will be an update
--> Processing Dependency: openssl = 1.0.1e-16.e16_5.14 for package: openssl-devel-1.0.1e-16.e16_5.14.x86_64
--> Running transaction check
--> Package openssl.x86_64 0:1.0.0-27.e16 will be updated
--> Package openssl.x86_64 0:1.0.1e-16.e16_5.14 will be an update
base/filelists_db                    5.9 MB   00:41
extras/filelists_db                  11 kB   00:00
updates/filelists_db                 2.5 MB   00:17
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
-----
Updating:
openssl-devel.x86_64 1.0.1e-16.e16_5.14 updates 1.2 M
Updating For dependencies:
openssl.x86_64 1.0.1e-16.e16_5.14 updates 1.5 M

Transaction Summary
Upgrade 2 Package(s)

Total download size: 2.7 M
Is this ok [y/n]? y
Downloading Packages:
(1/2): openssl-1.0.1e-16.e16_5.14.x86_64.rpm | 1.5 MB 00:10
(2/2): openssl-devel-1.0.1e-16.e16_5.14.x86_64.rpm | 1.2 MB 00:08
-----
Total | 114 kB/s | 2.7 MB 00:24
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Updating : openssl-1.0.1e-16.e16_5.14.x86_64 1/4
  Updating : openssl-devel-1.0.1e-16.e16_5.14.x86_64 2/4
  Cleanup : openssl-devel-1.0.0-27.e16.x86_64 3/4
  Cleanup : openssl-1.0.0-27.e16.x86_64 4/4
  Verifying : openssl-devel-1.0.1e-16.e16_5.14.x86_64 1/4
  Verifying : openssl-1.0.1e-16.e16_5.14.x86_64 2/4
  Verifying : openssl-devel-1.0.0-27.e16.x86_64 3/4
  Verifying : openssl-1.0.0-27.e16.x86_64 4/4

Updated:
  openssl-devel.x86_64 0:1.0.1e-16.e16_5.14

Dependency Updated:
  openssl.x86_64 0:1.0.1e-16.e16_5.14

Complete!
[root@hadoopMaster01 ~]#

```

`[root@hadoopMaster01 ~]# yum install ncurses-devel`

如下图表示依赖包系统中已经安装并且为最新版本

```

[root@hadoopMaster01 ~]# yum install ncurses-devel
Loaded plugins: fastestmirror, refresh-packagekit, security
Loading mirror speeds from cached hostfile
* base: mirrors.yun-idc.com
* extras: mirrors.yun-idc.com
* updates: mirrors.yun-idc.com
Setting up Install Process
Package ncurses-devel-5.7-3.20090208.e16.x86_64 already installed and latest version
Nothing to do
[root@hadoopMaster01 ~]#

```

编译 64 位本地库

进入已解压的 hadoop 源码目录

```
[grid@hadoopMaster01 ~]$ cd hadoop-2.4.0-src
```

```
[grid@hadoopMaster01 hadoop-2.4.0-src]$ pwd
```

```
/home/grid/hadoop-2.4.0-src
```

执行 `mvn clean install -DskipTests` 命令，等待完成(会自动联网下载很多东西)

```
[grid@hadoopMaster01 hadoop-2.4.0-src]$ mvn clean install -DskipTests
```

执行 `mvn package -Pdist,native -DskipTests -Dtar` 命令，开始编译，等待完成

```
grid@hadoopMaster01 hadoop-2.4.0-src]$ mvn package -Pdist,native -DskipTests -Dtar
```

出现如下信息

```

[INFO] -----
[INFO] Reactor Summary:
[INFO]
[INFO] Apache Hadoop Main ..... SUCCESS [6.304s]
[INFO] Apache Hadoop Project POM ..... SUCCESS [26.555s]
[INFO] Apache Hadoop Annotations ..... SUCCESS [2.757s]
[INFO] Apache Hadoop Assemblies ..... SUCCESS [0.216s]
[INFO] Apache Hadoop Project Dist POM ..... SUCCESS [19.592s]

```

[INFO] Apache Hadoop Maven Plugins SUCCESS [2.715s]
[INFO] Apache Hadoop MiniKDC SUCCESS [2.360s]
[INFO] Apache Hadoop Auth SUCCESS [2.950s]
[INFO] Apache Hadoop Auth Examples SUCCESS [2.119s]
[INFO] Apache Hadoop Common SUCCESS [1:22.302s]
[INFO] Apache Hadoop NFS SUCCESS [5.095s]
[INFO] Apache Hadoop Common Project SUCCESS [0.026s]
[INFO] Apache Hadoop HDFS SUCCESS [2:06.178s]
[INFO] Apache Hadoop HttpFS SUCCESS [1:09.142s]
[INFO] Apache Hadoop HDFS BookKeeper Journal SUCCESS [14.457s]
[INFO] Apache Hadoop HDFS-NFS SUCCESS [2.859s]
[INFO] Apache Hadoop HDFS Project SUCCESS [0.030s]
[INFO] hadoop-yarn SUCCESS [0.029s]
[INFO] hadoop-yarn-api SUCCESS [59.010s]
[INFO] hadoop-yarn-common SUCCESS [20.743s]
[INFO] hadoop-yarn-server SUCCESS [0.026s]
[INFO] hadoop-yarn-server-common SUCCESS [7.344s]
[INFO] hadoop-yarn-server-nodemanager SUCCESS [11.726s]
[INFO] hadoop-yarn-server-web-proxy SUCCESS [2.508s]
[INFO] hadoop-yarn-server-applicationhistoryservice SUCCESS [4.041s]
[INFO] hadoop-yarn-server-resourcemanager SUCCESS [10.370s]
[INFO] hadoop-yarn-server-tests SUCCESS [0.374s]
[INFO] hadoop-yarn-client SUCCESS [4.791s]
[INFO] hadoop-yarn-applications SUCCESS [0.025s]
[INFO] hadoop-yarn-applications-distributedshell SUCCESS [2.242s]
[INFO] hadoop-yarn-applications-unmanaged-am-launcher SUCCESS [1.553s]
[INFO] hadoop-yarn-site SUCCESS [0.024s]
[INFO] hadoop-yarn-project SUCCESS [3.261s]
[INFO] hadoop-mapreduce-client SUCCESS [0.082s]
[INFO] hadoop-mapreduce-client-core SUCCESS [18.549s]
[INFO] hadoop-mapreduce-client-common SUCCESS [13.772s]
[INFO] hadoop-mapreduce-client-shuffle SUCCESS [2.441s]
[INFO] hadoop-mapreduce-client-app SUCCESS [6.866s]
[INFO] hadoop-mapreduce-client-hs SUCCESS [6.280s]
[INFO] hadoop-mapreduce-client-jobclient SUCCESS [3.510s]
[INFO] hadoop-mapreduce-client-hs-plugins SUCCESS [1.725s]
[INFO] Apache Hadoop MapReduce Examples SUCCESS [4.641s]
[INFO] hadoop-mapreduce SUCCESS [3.002s]
[INFO] Apache Hadoop MapReduce Streaming SUCCESS [3.497s]
[INFO] Apache Hadoop Distributed Copy SUCCESS [5.847s]
[INFO] Apache Hadoop Archives SUCCESS [1.791s]
[INFO] Apache Hadoop Rumen SUCCESS [4.693s]
[INFO] Apache Hadoop Gridmix SUCCESS [3.235s]
[INFO] Apache Hadoop Data Join SUCCESS [2.349s]

```
[INFO] Apache Hadoop Extras ..... SUCCESS [2.488s]
[INFO] Apache Hadoop Pipes ..... SUCCESS [5.863s]
[INFO] Apache Hadoop OpenStack support ..... SUCCESS [3.776s]
[INFO] Apache Hadoop Client ..... SUCCESS [5.235s]
[INFO] Apache Hadoop Mini-Cluster ..... SUCCESS [0.070s]
[INFO] Apache Hadoop Scheduler Load Simulator ..... SUCCESS [3.935s]
[INFO] Apache Hadoop Tools Dist ..... SUCCESS [4.392s]
[INFO] Apache Hadoop Tools ..... SUCCESS [0.022s]
[INFO] Apache Hadoop Distribution ..... SUCCESS [21.274s]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 10:25.147s
[INFO] Finished at: Mon Jul 28 16:09:56 CST 2014
[INFO] Final Memory: 75M/241M
[INFO] -----
```

表示编译成功

进入/home/grid/hadoop-2.4.0-src/hadoop-dist/target/hadoop-2.4.0/lib/native 检查，使用 file *命令，如下图已经成功将编译 64 本地库

```
[grid@hadoopMaster01 native]$ pwd
/home/grid/hadoop-2.4.0-src/hadoop-dist/target/hadoop-2.4.0/lib/native
[grid@hadoopMaster01 native]$ ls
libhadoop.sc  libhadoop.so.1.0.0  libhadooputils.a  libhdfs.a  libhdfs.sc  libhdfs.so.0.0.0
[grid@hadoopMaster01 native]$ file
libhadoop.a:      current ar archive
libhadooppipes.a: current ar archive
libhadoop.so:    symbolic link to `libhadoop.so.1.0.0'
libhadoop.so.1.0.0: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), dynamically linked, not stripped
libhadooputils.a: current ar archive
libhdfs.a:       current ar archive
libhdfs.so:     symbolic link to `libhdfs.so.0.0.0'
libhdfs.so.0.0.0: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), dynamically linked, not stripped
[grid@hadoopMaster01 native]$
```

将 64 位的 native 文件夹替换原 32 位的文件夹即可