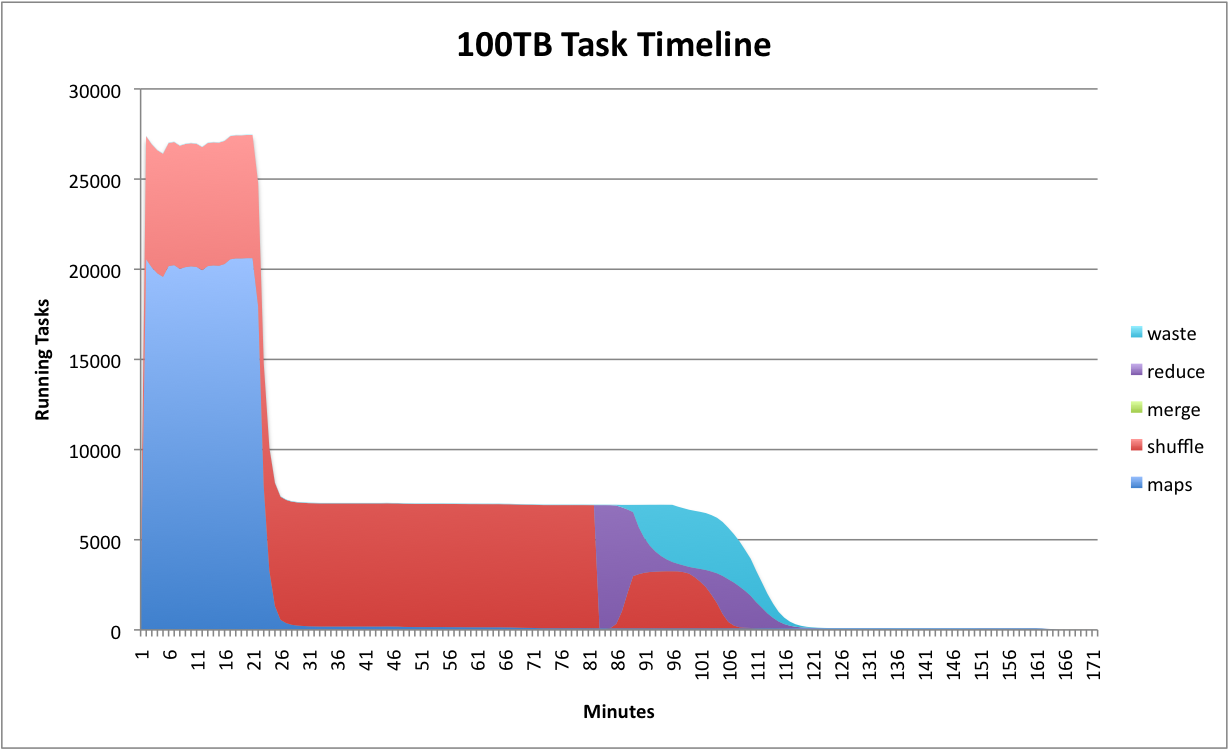
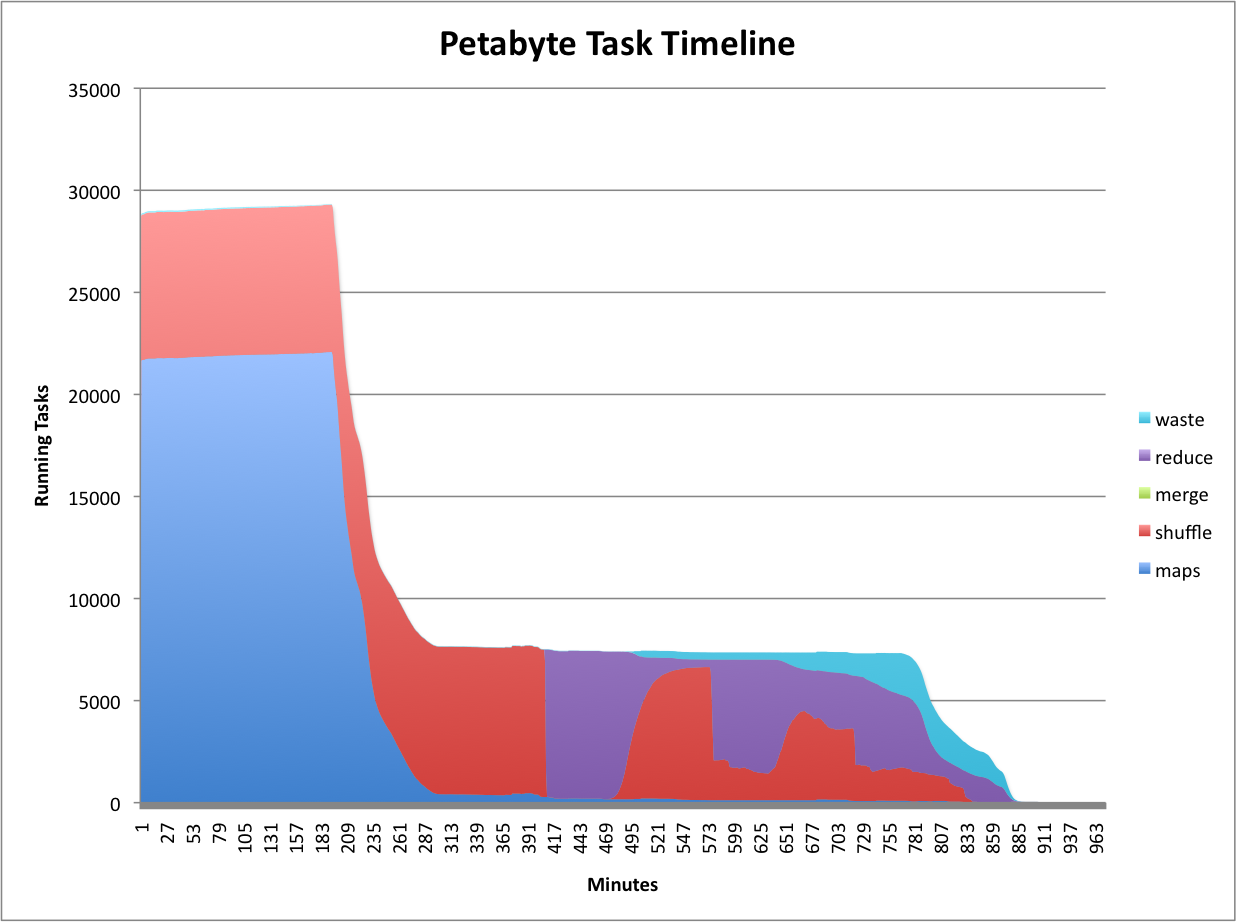
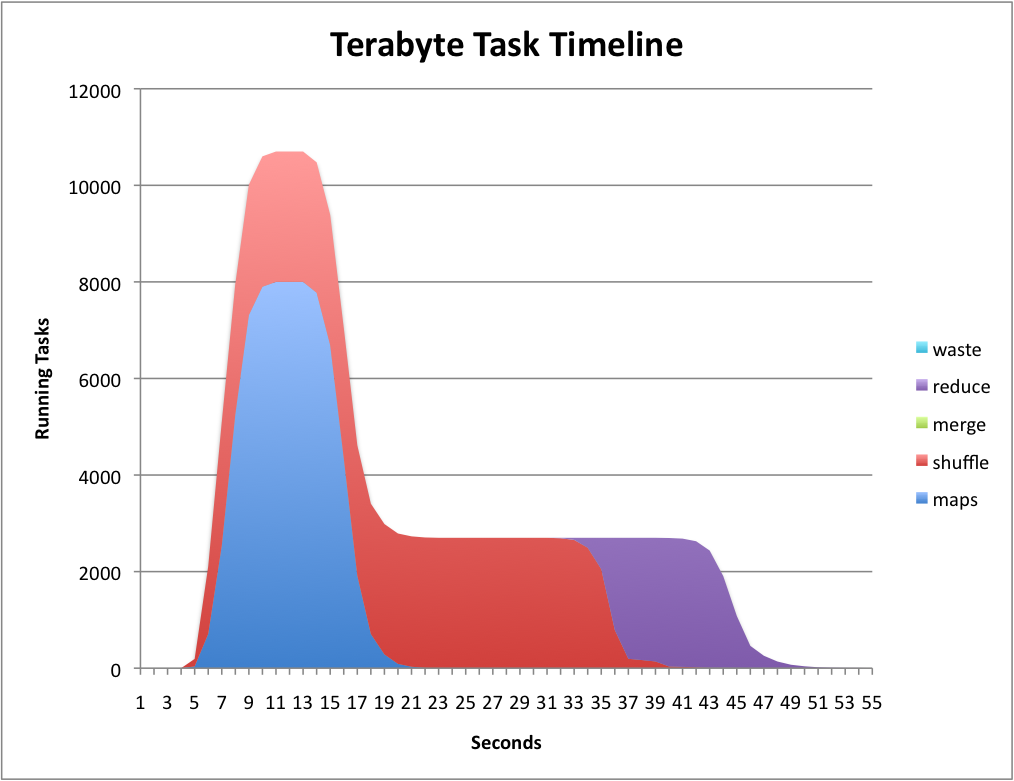
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/hadoop-mapreduce-examples/src/main/java/org/apache/hadoop/examples/terasort/2009-write-up/100TBTaskTime.png**



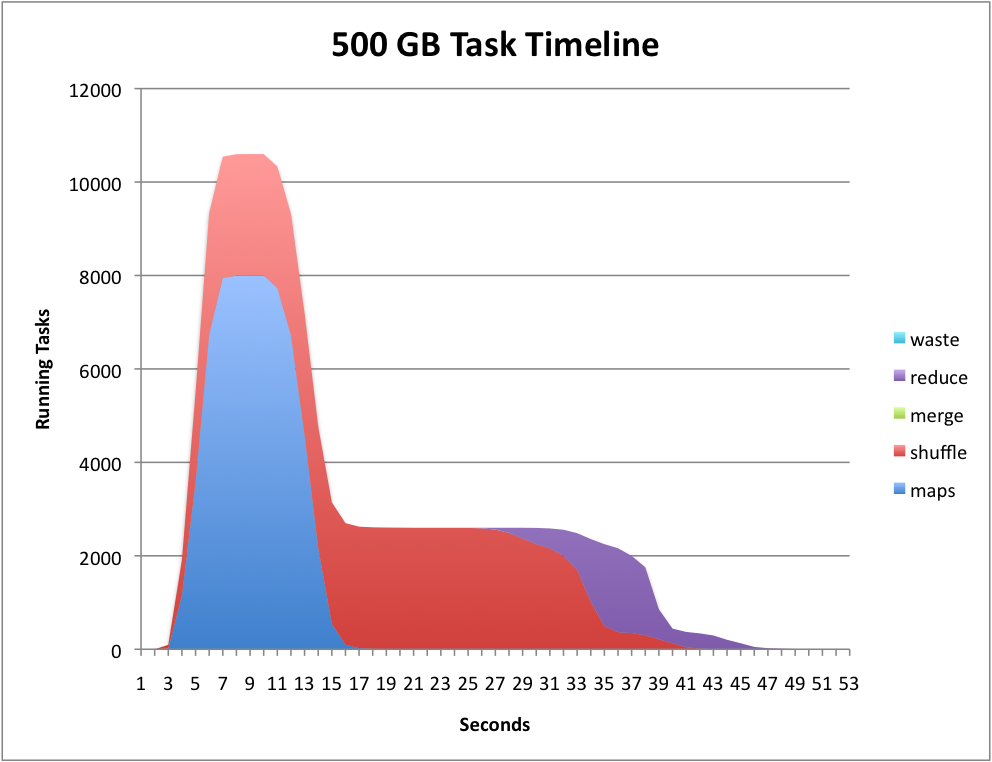
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/hadoop-mapreduce-examples/src/main/java/org/apache/hadoop/examples/terasort/2009-write-up/1PBTaskTime.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/hadoop-mapreduce-examples/src/main/java/org/apache/hadoop/examples/terasort/2009-write-up/1TBTaskTime.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/hadoop-mapreduce-examples/src/main/java/org/apache/hadoop/examples/terasort/2009-write-up/500GBTaskTime.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-common-project/hadoop-auth/BUILDING.txt**

Build instructions for Hadoop Auth

Same as for Hadoop.

For more details refer to the Hadoop Auth documentation pages.

-----------------------------------------------------------------------------

Caveats:

\* Hadoop Auth has profile to enable Kerberos testcases (testKerberos)

To run Kerberos testcases a KDC, 2 kerberos principals and a keytab file

are required (refer to the Hadoop Auth documentation pages for details).

\* Hadoop Auth does not have a distribution profile (dist)

\* Hadoop Auth does not have a native code profile (native)

-----------------------------------------------------------------------------

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/BUILDING.txt**

Build instructions for Hadoop

----------------------------------------------------------------------------------

Requirements:

\* Unix System

\* JDK 1.6+

\* Maven 3.0 or later

\* Findbugs 1.3.9 (if running findbugs)

\* ProtocolBuffer 2.5.0

\* CMake 2.6 or newer (if compiling native code), must be 3.0 or newer on Mac

\* Zlib devel (if compiling native code)

\* openssl devel ( if compiling native hadoop-pipes )

\* Internet connection for first build (to fetch all Maven and Hadoop dependencies)

----------------------------------------------------------------------------------

Maven main modules:

hadoop (Main Hadoop project)

- hadoop-project (Parent POM for all Hadoop Maven modules. )

(All plugins & dependencies versions are defined here.)

- hadoop-project-dist (Parent POM for modules that generate distributions.)

- hadoop-annotations (Generates the Hadoop doclet used to generated the Javadocs)

- hadoop-assemblies (Maven assemblies used by the different modules)

- hadoop-common-project (Hadoop Common)

- hadoop-hdfs-project (Hadoop HDFS)

- hadoop-mapreduce-project (Hadoop MapReduce)

- hadoop-tools (Hadoop tools like Streaming, Distcp, etc.)

- hadoop-dist (Hadoop distribution assembler)

----------------------------------------------------------------------------------

Where to run Maven from?

It can be run from any module. The only catch is that if not run from utrunk

all modules that are not part of the build run must be installed in the local

Maven cache or available in a Maven repository.

----------------------------------------------------------------------------------

Maven build goals:

\* Clean : mvn clean

\* Compile : mvn compile [-Pnative]

\* Run tests : mvn test [-Pnative]

\* Create JAR : mvn package

\* Run findbugs : mvn compile findbugs:findbugs

\* Run checkstyle : mvn compile checkstyle:checkstyle

\* Install JAR in M2 cache : mvn install

\* Deploy JAR to Maven repo : mvn deploy

\* Run clover : mvn test -Pclover [-DcloverLicenseLocation=${user.name}/.clover.license]

\* Run Rat : mvn apache-rat:check

\* Build javadocs : mvn javadoc:javadoc

\* Build distribution : mvn package [-Pdist][-Pdocs][-Psrc][-Pnative][-Dtar]

\* Change Hadoop version : mvn versions:set -DnewVersion=NEWVERSION

Build options:

\* Use -Pnative to compile/bundle native code

\* Use -Pdocs to generate & bundle the documentation in the distribution (using -Pdist)

\* Use -Psrc to create a project source TAR.GZ

\* Use -Dtar to create a TAR with the distribution (using -Pdist)

Snappy build options:

Snappy is a compression library that can be utilized by the native code.

It is currently an optional component, meaning that Hadoop can be built with

or without this dependency.

\* Use -Drequire.snappy to fail the build if libsnappy.so is not found.

If this option is not specified and the snappy library is missing,

we silently build a version of libhadoop.so that cannot make use of snappy.

This option is recommended if you plan on making use of snappy and want

to get more repeatable builds.

\* Use -Dsnappy.prefix to specify a nonstandard location for the libsnappy

header files and library files. You do not need this option if you have

installed snappy using a package manager.

\* Use -Dsnappy.lib to specify a nonstandard location for the libsnappy library

files. Similarly to snappy.prefix, you do not need this option if you have

installed snappy using a package manager.

\* Use -Dbundle.snappy to copy the contents of the snappy.lib directory into

the final tar file. This option requires that -Dsnappy.lib is also given,

and it ignores the -Dsnappy.prefix option.

OpenSSL build options:

OpenSSL includes a crypto library that can be utilized by the native code.

It is currently an optional component, meaning that Hadoop can be built with

or without this dependency.

\* Use -Drequire.openssl to fail the build if libcrypto.so is not found.

If this option is not specified and the openssl library is missing,

we silently build a version of libhadoop.so that cannot make use of

openssl. This option is recommended if you plan on making use of openssl

and want to get more repeatable builds.

\* Use -Dopenssl.prefix to specify a nonstandard location for the libcrypto

header files and library files. You do not need this option if you have

installed openssl using a package manager.

\* Use -Dopenssl.lib to specify a nonstandard location for the libcrypto library

files. Similarly to openssl.prefix, you do not need this option if you have

installed openssl using a package manager.

\* Use -Dbundle.openssl to copy the contents of the openssl.lib directory into

the final tar file. This option requires that -Dopenssl.lib is also given,

and it ignores the -Dopenssl.prefix option.

Tests options:

\* Use -DskipTests to skip tests when running the following Maven goals:

'package', 'install', 'deploy' or 'verify'

\* -Dtest=<TESTCLASSNAME>,<TESTCLASSNAME#METHODNAME>,....

\* -Dtest.exclude=<TESTCLASSNAME>

\* -Dtest.exclude.pattern=\*\*/<TESTCLASSNAME1>.java,\*\*/<TESTCLASSNAME2>.java

----------------------------------------------------------------------------------

Building components separately

If you are building a submodule directory, all the hadoop dependencies this

submodule has will be resolved as all other 3rd party dependencies. This is,

from the Maven cache or from a Maven repository (if not available in the cache

or the SNAPSHOT 'timed out').

An alternative is to run 'mvn install -DskipTests' from Hadoop source top

level once; and then work from the submodule. Keep in mind that SNAPSHOTs

time out after a while, using the Maven '-nsu' will stop Maven from trying

to update SNAPSHOTs from external repos.

----------------------------------------------------------------------------------

Protocol Buffer compiler

The version of Protocol Buffer compiler, protoc, must match the version of the

protobuf JAR.

If you have multiple versions of protoc in your system, you can set in your

build shell the HADOOP\_PROTOC\_PATH environment variable to point to the one you

want to use for the Hadoop build. If you don't define this environment variable,

protoc is looked up in the PATH.

----------------------------------------------------------------------------------

Importing projects to eclipse

When you import the project to eclipse, install hadoop-maven-plugins at first.

$ cd hadoop-maven-plugins

$ mvn install

Then, generate eclipse project files.

$ mvn eclipse:eclipse -DskipTests

At last, import to eclipse by specifying the root directory of the project via

[File] > [Import] > [Existing Projects into Workspace].

----------------------------------------------------------------------------------

Building distributions:

Create binary distribution without native code and without documentation:

$ mvn package -Pdist -DskipTests -Dtar

Create binary distribution with native code and with documentation:

$ mvn package -Pdist,native,docs -DskipTests -Dtar

Create source distribution:

$ mvn package -Psrc -DskipTests

Create source and binary distributions with native code and documentation:

$ mvn package -Pdist,native,docs,src -DskipTests -Dtar

Create a local staging version of the website (in /tmp/hadoop-site)

$ mvn clean site; mvn site:stage -DstagingDirectory=/tmp/hadoop-site

----------------------------------------------------------------------------------

Installing Hadoop

Look for these HTML files after you build the document by the above commands.

\* Single Node Setup:

hadoop-project-dist/hadoop-common/SingleCluster.html

\* Cluster Setup:

hadoop-project-dist/hadoop-common/ClusterSetup.html

----------------------------------------------------------------------------------

Handling out of memory errors in builds

----------------------------------------------------------------------------------

If the build process fails with an out of memory error, you should be able to fix

it by increasing the memory used by maven -which can be done via the environment

variable MAVEN\_OPTS.

Here is an example setting to allocate between 256 and 512 MB of heap space to

Maven

export MAVEN\_OPTS="-Xms256m -Xmx512m"

----------------------------------------------------------------------------------

Building on OS/X

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A one-time manual step is required to enable building Hadoop OS X with Java 7

every time the JDK is updated.

see: https://issues.apache.org/jira/browse/HADOOP-9350

$ sudo mkdir `/usr/libexec/java\_home`/Classes

$ sudo ln -s `/usr/libexec/java\_home`/lib/tools.jar `/usr/libexec/java\_home`/Classes/classes.jar

----------------------------------------------------------------------------------

Building on Windows

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Requirements:

\* Windows System

\* JDK 1.6+

\* Maven 3.0 or later

\* Findbugs 1.3.9 (if running findbugs)

\* ProtocolBuffer 2.5.0

\* CMake 2.6 or newer

\* Windows SDK or Visual Studio 2010 Professional

\* Unix command-line tools from GnuWin32 or Cygwin: sh, mkdir, rm, cp, tar, gzip

\* zlib headers (if building native code bindings for zlib)

\* Internet connection for first build (to fetch all Maven and Hadoop dependencies)

If using Visual Studio, it must be Visual Studio 2010 Professional (not 2012).

Do not use Visual Studio Express. It does not support compiling for 64-bit,

which is problematic if running a 64-bit system. The Windows SDK is free to

download here:

http://www.microsoft.com/en-us/download/details.aspx?id=8279

----------------------------------------------------------------------------------

Building:

Keep the source code tree in a short path to avoid running into problems related

to Windows maximum path length limitation. (For example, C:\hdc).

Run builds from a Windows SDK Command Prompt. (Start, All Programs,

Microsoft Windows SDK v7.1, Windows SDK 7.1 Command Prompt.)

JAVA\_HOME must be set, and the path must not contain spaces. If the full path

would contain spaces, then use the Windows short path instead.

You must set the Platform environment variable to either x64 or Win32 depending

on whether you're running a 64-bit or 32-bit system. Note that this is

case-sensitive. It must be "Platform", not "PLATFORM" or "platform".

Environment variables on Windows are usually case-insensitive, but Maven treats

them as case-sensitive. Failure to set this environment variable correctly will

cause msbuild to fail while building the native code in hadoop-common.

set Platform=x64 (when building on a 64-bit system)

set Platform=Win32 (when building on a 32-bit system)

Several tests require that the user must have the Create Symbolic Links

privilege.

All Maven goals are the same as described above with the exception that

native code is built by enabling the 'native-win' Maven profile. -Pnative-win

is enabled by default when building on Windows since the native components

are required (not optional) on Windows.

If native code bindings for zlib are required, then the zlib headers must be

deployed on the build machine. Set the ZLIB\_HOME environment variable to the

directory containing the headers.

set ZLIB\_HOME=C:\zlib-1.2.7

At runtime, zlib1.dll must be accessible on the PATH. Hadoop has been tested

with zlib 1.2.7, built using Visual Studio 2010 out of contrib\vstudio\vc10 in

the zlib 1.2.7 source tree.

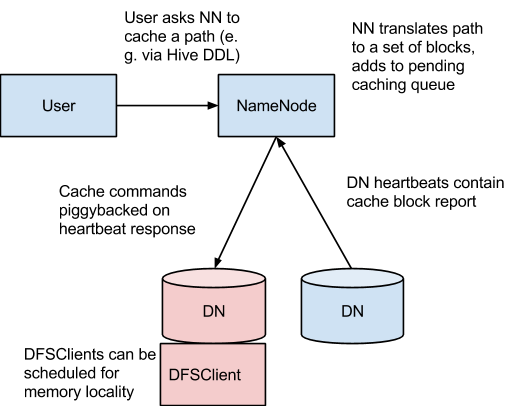
http://www.zlib.net/

----------------------------------------------------------------------------------

Building distributions:

\* Build distribution with native code : mvn package [-Pdist][-Pdocs][-Psrc][-Dtar]

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/site/resources/images/caching.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/CHANGES.txt**

Hadoop YARN Change Log

Release 2.6.5 - 2016-10-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

YARN-4690. Skip object allocation in FSAppAttempt#getResourceUsage when

possible (Ming Ma via sjlee)

YARN-5262. Optimize sending RMNodeFinishedContainersPulledByAMEvent for

every AM heartbeat (Rohith Sharma K S via jlowe)

YARN-5483. Optimize RMAppAttempt#pullJustFinishedContainers (sandflee via

jlowe)

YARN-5009. NMLeveldbStateStoreService database can grow substantially

leading to longer recovery times (jlowe)

BUG FIXES

YARN-2046. Out of band heartbeats are sent only on container kill and

possibly too early (Ming Ma via jlowe)

YARN-4722. AsyncDispatcher logs redundant event queue sizes (Jason Lowe via

sjlee)

YARN-4761. NMs reconnecting with changed capabilities can lead to wrong cluster

resource calculations on fair scheduler. (Sangjin Lee via zxu)

YARN-4785. inconsistent value type of the "type" field for LeafQueueInfo in

response of RM REST API. (Varun Vasudev via junping-du)

YARN-4773. Log aggregation performs extraneous filesystem operations when

rolling log aggregation is disabled (Jun Gong via jlowe)

YARN-4459. container-executor should only kill process groups (Jun Gong

via jlowe)

YARN-5206. RegistrySecurity includes id:pass in exception text if

considered invalid (Steve Loughran via jlowe)

YARN-5197. RM leaks containers if running container disappears from

node update. Contributed by Jason Lowe.

YARN-4393. Fix intermittent test failure for TestResourceLocalizationService

#testFailedDirsResourceRelease (Varun Saxana via rohithsharmaks)

YARN-5353. ResourceManager can leak delegation tokens when they are shared across

apps. (Jason Lowe via Varun Saxena)

YARN-5462. TestNodeStatusUpdater.testNodeStatusUpdaterRetryAndNMShutdown

fails intermittently (Eric Badger via jlowe)

YARN-4573. Fix test failure in TestRMAppTransitions#testAppRunningKill and

testAppKilledKilled. (Takashi Ohnishi via rohithsharmaks)

YARN-4794. Deadlock in NMClientImpl (Jian He via Rohith Sharma K S)

Release 2.6.4 - 2016-02-11

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

YARN-2975. FSLeafQueue app lists are accessed without required locks. (kasha)

YARN-3857. Memory leak in ResourceManager with SIMPLE mode. (mujunchao via zxu)

YARN-3535. Scheduler must re-request container resources when RMContainer transitions

from ALLOCATED to KILLED. (rohithsharma and peng.zhang via asuresh)

YARN-4452. NPE when submit Unmanaged application. (Naganarasimha G R

via junping\_du)

YARN-3893. Both RM in active state when Admin#transitionToActive failure

from refeshAll() (Bibin A Chundatt via rohithsharmaks)

YARN-3697. FairScheduler: ContinuousSchedulingThread can fail to shutdown.

(Zhihai Xu via kasha)

YARN-4546. ResourceManager crash due to scheduling opportunity overflow.

(Jason Lowe via junping\_du)

YARN-2902. Killing a container that is localizing can orphan resources in

the DOWNLOADING state (Varun Saxena via jlowe)

YARN-4354. Public resource localization fails with NPE. (Jason Lowe via

junping\_du)

YARN-4380. TestResourceLocalizationService.testDownloadingResourcesOnContainerKill

fails intermittently. (Varun Saxena via ozawa)

YARN-4180. AMLauncher does not retry on failures when talking to NM.

(adhoot)

YARN-3849. Too much of preemption activity causing continuos killing of

containers across queues. (Sunil G via wangda)

YARN-3842. NMProxy should retry on NMNotYetReadyException.

(Robert Kanter via kasha)

YARN-3695. ServerProxy (NMProxy, etc.) shouldn't retry forever for non

network exception. (Raju Bairishetti via jianhe)

YARN-4414. Nodemanager connection errors are retried at multiple levels

(Chang Li via jlowe)

YARN-4581. AHS writer thread leak makes RM crash while RM is recovering.

(sandflee via junping\_du)

YARN-4598. Invalid event: RESOURCE\_FAILED at

CONTAINER\_CLEANEDUP\_AFTER\_KILL (tangshangwen via jlowe)

Release 2.6.3 - 2015-12-17

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

YARN-2859. ApplicationHistoryServer binds to default port 8188 in MiniYARNCluster.

(Vinod Kumar Vavilapalli via xgong)

YARN-4312. TestSubmitApplicationWithRMHA fails on branch-2.7 and branch-2.6

as some of the test cases time out. (Varun Saxena via ozawa)

YARN-4320. TestJobHistoryEventHandler fails as AHS in MiniYarnCluster no longer

binds to default port 8188. (Varun Saxena via ozawa)

YARN-4326. Fix TestDistributedShell timeout as AHS in MiniYarnCluster no longer

binds to default port 8188. (Meng Ding via wangda)

YARN-4241. Fix typo of property name in yarn-default.xml.

(Anthony Rojas via aajisaka)

YARN-4344. NMs reconnecting with changed capabilities can lead to wrong

cluster resource calculations (Varun Vasudev via jlowe)

YARN-3925. ContainerLogsUtils#getContainerLogFile fails to read container

log files from full disks. (zhihai xu via jlowe)

YARN-3878. AsyncDispatcher can hang while stopping if it is configured for

draining events on stop. (Varun Saxena via kasha)

YARN-4365. FileSystemNodeLabelStore should check for root dir existence on

startup (Kuhu Shukla via jlowe)

YARN-4348. ZKRMStateStore.syncInternal shouldn't wait for sync completion for

avoiding blocking ZK's event thread. (ozawa)

YARN-4424. Fix deadlock in RMAppImpl. (Jian he via wangda)

YARN-4434. NodeManager Disk Checker parameter documentation is not correct.

(Weiwei Yang via aajisaka)

Release 2.6.2 - 2015-10-28

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

YARN-3727. For better error recovery, check if the directory exists before

using it for localization. (Zhihai Xu via jlowe)

YARN-4092. Fixed UI redirection to print useful messages when both RMs are

in standby mode. (Xuan Gong via jianhe)

YARN-4101. RM should print alert messages if Zookeeper and Resourcemanager

gets connection issue. (Xuan Gong via jianhe)

OPTIMIZATIONS

BUG FIXES

YARN-2019. Retrospect on decision of making RM crashed if any exception throw

in ZKRMStateStore. (Jian He via junping\_du)

YARN-4087. Followup fixes after YARN-2019 regarding RM behavior when

state-store error occurs. (Jian He via xgong)

YARN-3554. Default value for maximum nodemanager connect wait time is too

high (Naganarasimha G R via jlowe)

YARN-4005. Completed container whose app is finished is possibly not

removed from NMStateStore. (Jun Gong via jianhe)

YARN-3780. Should use equals when compare Resource in RMNodeImpl#ReconnectNodeTransition.

(zhihai xu via devaraj)

YARN-3802. Two RMNodes for the same NodeId are used in RM sometimes

after NM is reconnected. (zhihai xu via xgong)

YARN-3194. RM should handle NMContainerStatuses sent by NM while

registering if NM is Reconnected node (Rohith via jlowe)

YARN-3896. RMNode transitioned from RUNNING to REBOOTED because its response id

has not been reset synchronously. (Jun Gong via rohithsharmaks)

YARN-3798. ZKRMStateStore shouldn't create new session without occurrance of

SESSIONEXPIED. (ozawa and Varun Saxena)

Release 2.6.1 - 2015-09-23

INCOMPATIBLE CHANGES

NEW FEATURES

YARN-3249. Add a 'kill application' button to Resource Manager's Web UI.

(Ryu Kobayashi via ozawa)

IMPROVEMENTS

YARN-3230. Clarify application states on the web UI. (Jian He via wangda)

YARN-1809. Synchronize RM and TimeLineServer Web-UIs. (Zhijie Shen and

Xuan Gong via jianhe)

YARN-3092. Created a common ResourceUsage class to track labeled resource

usages in Capacity Scheduler. (Wangda Tan via jianhe)

YARN-3098. Created common QueueCapacities class in Capacity Scheduler to

track capacities-by-labels of queues. (Wangda Tan via jianhe)

YARN-2301. Improved yarn container command. (Naganarasimha G R via jianhe)

YARN-3978. Configurably turn off the saving of container info in Generic AHS

(Eric Payne via jeagles)

YARN-3248. Display count of nodes blacklisted by apps in the web UI.

(Varun Vasudev via xgong)

OPTIMIZATIONS

BUG FIXES

YARN-2856. Fixed RMAppImpl to handle ATTEMPT\_KILLED event at ACCEPTED state

on app recovery. (Rohith Sharmaks via jianhe)

YARN-2816. NM fail to start with NPE during container recovery (Zhihai Xu

via jlowe)

YARN-2414. RM web UI: app page will crash if app is failed before any

attempt has been created (Wangda Tan via jlowe)

YARN-2865. Fixed RM to always create a new RMContext when transtions from

StandBy to Active. (Rohith Sharmaks via jianhe)

YARN-2906. CapacitySchedulerPage shows HTML tags for a queue's Active Users.

(Jason Lowe via jianhe)

YARN-2905. AggregatedLogsBlock page can infinitely loop if the aggregated

log file is corrupted (Varun Saxena via jlowe)

YARN-2894. Fixed a bug regarding application view acl when RM fails over.

(Rohith Sharmaks via jianhe)

YARN-2874. Dead lock in "DelegationTokenRenewer" which blocks RM to execute

any further apps. (Naganarasimha G R via kasha)

YARN-2910. FSLeafQueue can throw ConcurrentModificationException.

(Wilfred Spiegelenburg via kasha)

YARN-2917. Fixed potential deadlock when system.exit is called in AsyncDispatcher

(Rohith Sharmaks via jianhe)

YARN-2964. RM prematurely cancels tokens for jobs that submit jobs (oozie)

(Jian He via jlowe)

YARN-1984. LeveldbTimelineStore does not handle db exceptions properly

(Varun Saxena via jlowe)

YARN-2952. Fixed incorrect version check in StateStore. (Rohith Sharmaks

via jianhe)

YARN-2340. Fixed NPE when queue is stopped during RM restart.

(Rohith Sharmaks via jianhe)

YARN-2992. ZKRMStateStore crashes due to session expiry. (Karthik Kambatla

via jianhe)

YARN-2922. ConcurrentModificationException in CapacityScheduler's LeafQueue.

(Rohith Sharmaks via ozawa)

YARN-2997. Fixed NodeStatusUpdater to not send alreay-sent completed

container statuses on heartbeat. (Chengbing Liu via jianhe)

YARN-3011. Possible IllegalArgumentException in ResourceLocalizationService

might lead NM to crash. (Varun Saxena via jianhe)

YARN-3103. AMRMClientImpl does not update AMRM token properly. (Jason Lowe

via jianhe)

YARN-3094. Reset timer for liveness monitors after RM recovery. (Jun Gong

via jianhe)

YARN-2246. Made the proxy tracking URL always be

http(s)://proxy addr:port/proxy/<appId> to avoid duplicate sections. (Devaraj

K via zjshen)

YARN-3207. Secondary filter matches entites which do not have the key being

filtered for. (Zhijie Shen via xgong)

YARN-3238. Connection timeouts to nodemanagers are retried at

multiple levels (Jason Lowe via xgong)

YARN-3239. WebAppProxy does not support a final tracking url which has

query fragments and params (Jian He via jlowe)

YARN-3222. Fixed RMNode to send scheduler events in sequential order when a

node reconnects. (Rohith Sharma K S via jianhe)

YARN-3231. FairScheduler: Changing queueMaxRunningApps interferes with pending

jobs. (Siqi Li via kasha)

YARN-3242. Asynchrony in ZK-close can lead to ZKRMStateStore watcher receiving

events for old client. (Zhihai Xu via kasha)

YARN-3227. Timeline renew delegation token fails when RM user's TGT is expired

(Zhijie Shen via xgong)

YARN-3287. Made TimelineClient put methods do as the correct login context.

(Daryn Sharp and Jonathan Eagles via zjshen)

YARN-3267. Timelineserver applies the ACL rules after applying the limit on

the number of records (Chang Li via jeagles)

YARN-3369. Missing NullPointer check in AppSchedulingInfo causes RM to die.

(Brahma Reddy Battula via wangda)

YARN-3393. Getting application(s) goes wrong when app finishes before

starting the attempt. (Zhijie Shen via xgong)

YARN-3055. Fixed ResourceManager's DelegationTokenRenewer to not stop token

renewal of applications part of a bigger workflow. (Daryn Sharp via vinodkv)

YARN-3493. RM fails to come up with error "Failed to load/recover state"

when mem settings are changed. (Jian He via wangda)

YARN-3487. CapacityScheduler scheduler lock obtained unnecessarily when

calling getQueue (Jason Lowe via wangda)

YARN-3024. LocalizerRunner should give DIE action when all resources are

localized. (Chengbing Liu via xgong)

YARN-3464. Race condition in LocalizerRunner kills localizer before

localizing all resources. (Zhihai Xu via kasha)

YARN-3641. NodeManager: stopRecoveryStore() shouldn't be skipped when

exceptions happen in stopping NM's sub-services. (Junping Du via jlowe)

YARN-3526. ApplicationMaster tracking URL is incorrectly redirected

on a QJM cluster. (Weiwei Yang via xgong)

YARN-2766. Made ApplicationHistoryManager return a sorted list of apps,

attempts and containers. (Robert Kanter via zjshen)

YARN-3700. Made generic history service load a number of latest applications

according to the parameter or the configuration. (Xuan Gong via zjshen)

YARN-2900. Application (Attempt and Container) Not Found in AHS results

in InternalServer Error (500). (Zhijie Shen and Mit Desai via xgong)

YARN-3725. App submission via REST API is broken in secure mode due to

Timeline DT service address is empty. (Zhijie Shen via wangda)

YARN-3585. NodeManager cannot exit on SHUTDOWN event triggered and NM

recovery is enabled (Rohith Sharmaks via jlowe)

YARN-3832. Resource Localization fails on a cluster due to existing cache

directories (Brahma Reddy Battula via jlowe)

YARN-3850. NM fails to read files from full disks which can lead to

container logs being lost and other issues (Varun Saxena via jlowe)

YARN-3990. AsyncDispatcher may overloaded with RMAppNodeUpdateEvent when

Node is connected/disconnected (Bibin A Chundatt via jlowe)

YARN-2637. Fixed max-am-resource-percent calculation in CapacityScheduler

when activating applications. (Craig Welch via jianhe)

YARN-3733. Fix DominantRC#compare() does not work as expected if

cluster resource is empty. (Rohith Sharmaks via wangda)

YARN-2920. Changed CapacityScheduler to kill containers on nodes where

node labels are changed. (Wangda Tan via jianhe)

YARN-2978. Fixed potential NPE while getting queue info. (Varun Saxena via

jianhe)

YARN-3099. Capacity Scheduler LeafQueue/ParentQueue should use ResourceUsage

to track used-resources-by-label.(Wangda Tan via jianhe)

YARN-2694. Ensure only single node label specified in ResourceRequest.

(Wangda Tan via jianhe)

YARN-3124. Fixed CS LeafQueue/ParentQueue to use QueueCapacities to track

capacities-by-label. (Wangda Tan via jianhe)

YARN-2918. RM should not fail on startup if queue's configured labels do

not exist in cluster-node-labels. (Wangda Tan via jianhe)

YARN-3999. RM hangs on draing events. (Jian He via xgong)

YARN-4047. ClientRMService getApplications has high scheduler lock contention.

(Jason Lowe via jianhe)

YARN-1884. Added nodeHttpAddress into ContainerReport and fixed the link to NM

web page. (Xuan Gong via zjshen)

YARN-3171. Sort by Application id, AppAttempt and ContainerID doesn't work

in ATS / RM web ui. (Naganarasimha G R via xgong)

YARN-3740. Fixed the typo in the configuration name:

APPLICATION\_HISTORY\_PREFIX\_MAX\_APPS. (Xuan Gong via zjshen)

YARN-3544. Got back AM logs link on the RM web UI for a completed app.

(Xuan Gong via zjshen)

YARN-2890. MiniYarnCluster should turn on timeline service if

configured to do so. (Mit Desai via hitesh)

YARN-3154. Added additional APIs in LogAggregationContext to avoid aggregating

running logs of application when rolling is enabled. (Xuan Gong via vinodkv)

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INCOMPATIBLE CHANGES

NEW FEATURES

YARN-1964. Create Docker analog of the LinuxContainerExecutor in YARN. (Abin

Shahab via raviprak)

YARN-2131. Add a way to format the RMStateStore. (Robert Kanter via kasha)

YARN-1367. Changed NM to not kill containers on NM resync if RM work-preserving

restart is enabled. (Anubhav Dhoot via jianhe)

YARN-1366. Changed AMRMClient to re-register with RM and send outstanding requests

back to RM on work-preserving RM restart. (Rohith via jianhe)

YARN-2181. Added preemption info to logs and RM web UI. (Wangda Tan via

jianhe)

YARN-1354. Recover applications upon nodemanager restart. (Jason Lowe via

junping\_du)

YARN-1337. Recover containers upon nodemanager restart. (Jason Lowe via

junping\_du)

YARN-2277. Added cross-origin support for the timeline server web services.

(Jonathan Eagles via zjshen)

YARN-2378. Added support for moving applications across queues in

CapacityScheduler. (Subramaniam Venkatraman Krishnan via jianhe)

YARN-2411. Support simple user and group mappings to queues. (Ram Venkatesh

via jianhe)

YARN-2174. Enable HTTPs for the writer REST API of TimelineServer.

(Zhijie Shen via jianhe)

YARN-2393. FairScheduler: Add the notion of steady fair share.

(Wei Yan via kasha)

YARN-2395. FairScheduler: Preemption timeout should be configurable per

queue. (Wei Yan via kasha)

YARN-2394. FairScheduler: Configure fairSharePreemptionThreshold per queue.

(Wei Yan via kasha)

YARN-415. Capture aggregate memory allocation at the app-level for chargeback.

(Eric Payne & Andrey Klochkov via jianhe)

YARN-2440. Enabled Nodemanagers to limit the aggregate cpu usage across all

containers to a preconfigured limit. (Varun Vasudev via vinodkv)

YARN-2033. Merging generic-history into the Timeline Store

(Zhijie Shen via junping\_du)

YARN-611. Added an API to let apps specify an interval beyond which AM

failures should be ignored towards counting max-attempts. (Xuan Gong via

vinodkv)

YARN-2531. Added a configuration for admins to be able to override app-configs

and enforce/not-enforce strict control of per-container cpu usage. (Varun

Vasudev via vinodkv)

YARN-1250. Generic history service should support application-acls. (Zhijie Shen

via junping\_du)

YARN-2569. Added the log handling APIs for the long running services. (Xuan

Gong via zjshen)

YARN-2102. Added the concept of a Timeline Domain to handle read/write ACLs

on Timeline service event data. (Zhijie Shen via vinodkv)

YARN-2581. Passed LogAggregationContext to NM via ContainerTokenIdentifier.

(Xuan Gong via zjshen)

YARN-2613. Support retry in NMClient for rolling-upgrades. (Jian He via

junping\_du)

YARN-1063. Augmented Hadoop common winutils to have the ability to create

containers as domain users. (Remus Rusanu via vinodkv)

YARN-2446. Augmented Timeline service APIs to start taking in domains as a

parameter while posting entities and events. (Zhijie Shen via vinodkv)

YARN-2468. Enhanced NodeManager to support log handling APIs (YARN-2569) for

use by long running services. (Xuan Gong via vinodkv)

YARN-1051. Add a system for creating reservations of cluster capacity.

(see breakdown below)

YARN-913. Add a way to register long-lived services in a YARN cluster.

(stevel)

YARN-2493. Added user-APIs for using node-labels. (Wangda Tan via vinodkv)

YARN-2544. Added admin-API objects for using node-labels. (Wangda Tan via

vinodkv)

YARN-2494. Added NodeLabels Manager internal API and implementation. (Wangda

Tan via vinodkv)

YARN-2501. Enhanced AMRMClient library to support requests against node

labels. (Wangda Tan via vinodkv)

YARN-2656. Made RM web services authentication filter support proxy user.

(Varun Vasudev and Zhijie Shen via zjshen)

YARN-2496. Enhanced Capacity Scheduler to have basic support for allocating

resources based on node-labels. (Wangda Tan via vinodkv)

YARN-2500. Enhaced ResourceManager to support schedulers allocating resources

based on node-labels. (Wangda Tan via vinodkv)

YARN-2504. Enhanced RM Admin CLI to support management of node-labels.

(Wangda Tan via vinodkv)

YARN-1972. Added a secure container-executor for Windows. (Remus Rusanu via

vinodkv)

YARN-2198. Remove the need to run NodeManager as privileged account for

Windows Secure Container Executor. (Remus Rusanu via jianhe)

YARN-2647. Added a queue CLI for getting queue information. (Sunil Govind via

vinodkv)

YARN-2632. Document NM Restart feature. (Junping Du and Vinod Kumar

Vavilapalli via jlowe)

YARN-2505. Supported get/add/remove/change labels in RM REST API. (Craig Welch

via zjshen)

IMPROVEMENTS

YARN-2242. Improve exception information on AM launch crashes. (Li Lu

via junping\_du)

YARN-2274. FairScheduler: Add debug information about cluster capacity,

availability and reservations. (kasha)

YARN-2228. Augmented TimelineServer to load pseudo authentication filter when

authentication = simple. (Zhijie Shen via vinodkv)

YARN-1341. Recover NMTokens upon nodemanager restart. (Jason Lowe via

junping\_du)

YARN-2208. AMRMTokenManager need to have a way to roll over AMRMToken. (xgong)

YARN-2323. FairShareComparator creates too many Resource objects (Hong Zhiguo

via Sandy Ryza)

YARN-2045. Data persisted in NM should be versioned (Junping Du via jlowe)

YARN-2013. The diagnostics is always the ExitCodeException stack when the container

crashes. (Tsuyoshi OZAWA via junping\_du)

YARN-2295. Refactored DistributedShell to use public APIs of protocol records.

(Li Lu via jianhe)

YARN-1342. Recover container tokens upon nodemanager restart. (Jason Lowe via

devaraj)

YARN-2214. FairScheduler: preemptContainerPreCheck() in FSParentQueue delays

convergence towards fairness. (Ashwin Shankar via kasha)

YARN-2211. Persist AMRMToken master key in RMStateStore for RM recovery.

(Xuan Gong via jianhe)

YARN-2328. FairScheduler: Verify update and continuous scheduling threads are

stopped when the scheduler is stopped. (kasha)

YARN-2347. Consolidated RMStateVersion and NMDBSchemaVersion into Version in

yarn-server-common. (Junping Du via zjshen)

YARN-1994. Expose YARN/MR endpoints on multiple interfaces. (Craig Welch,

Milan Potocnik, Arpit Agarwal via xgong)

YARN-2343. Improve NMToken expire exception message. (Li Lu via jianhe)

YARN-2370. Fix comment in o.a.h.y.server.resourcemanager.schedulerAppSchedulingInfo

(Wenwu Peng via junping\_du)

YARN-2298. Move TimelineClient to yarn-common project (Zhijie Shen via

junping\_du)

YARN-2288. Made persisted data in LevelDB timeline store be versioned. (Junping Du

via zjshen)

YARN-2352. FairScheduler: Collect metrics on duration of critical methods that

affect performance. (kasha)

YARN-2212. ApplicationMaster needs to find a way to update the AMRMToken

periodically. (xgong)

YARN-2026. Fair scheduler: Consider only active queues for computing fairshare.

(Ashwin Shankar via kasha)

YARN-1954. Added waitFor to AMRMClient(Async). (Tsuyoshi Ozawa via zjshen)

YARN-2302. Refactor TimelineWebServices. (Zhijie Shen via junping\_du)

YARN-2337. ResourceManager sets ClientRMService in RMContext multiple times.

(Zhihai Xu via kasha)

YARN-2138. Cleaned up notifyDone\* APIs in RMStateStore. (Varun Saxena via

jianhe)

YARN-2373. Changed WebAppUtils to use Configuration#getPassword for

accessing SSL passwords. (Larry McCay via jianhe)

YARN-2317. Updated the document about how to write YARN applications. (Li Lu via

zjshen)

YARN-2399. FairScheduler: Merge AppSchedulable and FSSchedulerApp into

FSAppAttempt. (kasha)

YARN-1370. Fair scheduler to re-populate container allocation state.

(Anubhav Dhoot via kasha)

YARN-2197. Add a link to YARN CHANGES.txt in the left side of doc

(Akira AJISAKA via aw)

YARN-1918. Typo in description and error message for

'yarn.resourcemanager.cluster-id' (Anandha L Ranganathan via aw)

YARN-2389. Added functionality for schedulers to kill all applications in a

queue. (Subramaniam Venkatraman Krishnan via jianhe)

YARN-1326. RM should log using RMStore at startup time.

(Tsuyoshi Ozawa via kasha)

YARN-2182. Updated ContainerId#toString() to append RM Epoch number.

(Tsuyoshi OZAWA via jianhe)

YARN-2406. Move RM recovery related proto to

yarn\_server\_resourcemanager\_recovery.proto. (Tsuyoshi Ozawa via jianhe)

YARN-1506. Changed RMNode/SchedulerNode to update resource with event

notification. (Junping Du via jianhe)

YARN-2509. Enable Cross Origin Filter for timeline server only and not all

Yarn servers (Mit Desai via jeagles)

YARN-2511. Allowed all origins by default when CrossOriginFilter is

enabled. (Jonathan Eagles via zjshen)

YARN-2508. Cross Origin configuration parameters prefix are not honored

(Mit Desai via jeagles)

YARN-2512. Allowed pattern matching for origins in CrossOriginFilter.

(Jonathan Eagles via zjshen)

YARN-2507. Documented CrossOriginFilter configurations for the timeline

server. (Jonathan Eagles via zjshen)

YARN-2515. Updated ConverterUtils#toContainerId to parse epoch.

(Tsuyoshi OZAWA via jianhe)

YARN-2448. Changed ApplicationMasterProtocol to expose RM-recognized resource

types to the AMs. (Varun Vasudev via vinodkv)

YARN-2538. Added logs when RM sends roll-overed AMRMToken to AM. (Xuan Gong

via zjshen)

YARN-2229. Changed the integer field of ContainerId to be long type.

(Tsuyoshi OZAWA via jianhe)

YARN-2547. Cross Origin Filter throws UnsupportedOperationException upon

destroy (Mit Desai via jeagles)

YARN-2557. Add a parameter "attempt\_Failures\_Validity\_Interval" into

DistributedShell. (xgong)

YARN-2001. Added a time threshold for RM to wait before starting container

allocations after restart/failover. (Jian He via vinodkv)

YARN-1372. Ensure all completed containers are reported to the AMs across

RM restart. (Anubhav Dhoot via jianhe)

YARN-2539. FairScheduler: Set the default value for maxAMShare to 0.5.

(Wei Yan via kasha)

YARN-1959. Fix headroom calculation in FairScheduler.

(Anubhav Dhoot via kasha)

YARN-2577. Clarify ACL delimiter and how to configure ACL groups only

(Miklos Christine via aw)

YARN-2372. There are Chinese Characters in the FairScheduler's document

(Fengdong Yu via aw)

YARN-668. Changed NMTokenIdentifier/AMRMTokenIdentifier/ContainerTokenIdentifier

to use protobuf object as the payload. (Junping Du via jianhe)

YARN-1769. CapacityScheduler: Improve reservations (Thomas Graves via

jlowe)

YARN-2627. Added the info logs of attemptFailuresValidityInterval and number

of previous failed attempts. (Xuan Gong via zjshen)

YARN-2562. Changed ContainerId#toString() to be more readable. (Tsuyoshi

OZAWA via jianhe)

YARN-2615. Changed ClientToAMTokenIdentifier/RM(Timeline)DelegationTokenIdentifier

to use protobuf as payload. (Junping Du via jianhe)

YARN-2629. Made the distributed shell use the domain-based timeline ACLs.

(zjshen)

YARN-2583. Modified AggregatedLogDeletionService to be able to delete rolling

aggregated logs. (Xuan Gong via zjshen)

YARN-2312. Deprecated old ContainerId#getId API and updated MapReduce to

use ContainerId#getContainerId instead. (Tsuyoshi OZAWA via jianhe)

YARN-2621. Simplify the output when the user doesn't have the access for

getDomain(s). (Zhijie Shen via jianhe)

YARN-1879. Marked Idempotent/AtMostOnce annotations to ApplicationMasterProtocol

for RM fail over. (Tsuyoshi OZAWA via jianhe)

YARN-2676. Enhanced Timeline auth-filter to support proxy users. (Zhijie Shen

via vinodkv)

YARN-2673. Made timeline client put APIs retry if ConnectException happens.

(Li Lu via zjshen)

YARN-2582. Fixed Log CLI and Web UI for showing aggregated logs of LRS. (Xuan

Gong via zjshen)

YARN-90. NodeManager should identify failed disks becoming good again

(Varun Vasudev via jlowe)

YARN-2709. Made timeline client getDelegationToken API retry if ConnectException

happens. (Li Lu via zjshen)

YARN-2682. Updated WindowsSecureContainerExecutor to not use

DefaultContainerExecutor#getFirstApplicationDir and use getWorkingDir()

instead. (Zhihai Xu via jianhe)

YARN-2209. Replaced AM resync/shutdown command with corresponding exceptions and

made related MR changes. (Jian He via zjshen)

YARN-2703. Added logUploadedTime into LogValue for better display. (Xuan Gong

via zjshen)

YARN-2704. Changed ResourceManager to optionally obtain tokens itself for the

sake of localization and log-aggregation for long-running services. (Jian He

via vinodkv)

YARN-2502. Changed DistributedShell to support node labels. (Wangda Tan via

jianhe)

YARN-2760. Remove 'experimental' from FairScheduler docs. (Harsh J via kasha)

YARN-2503. Added node lablels in web UI. (Wangda Tan via jianhe)

YARN-2779. Fixed ResourceManager to not require delegation tokens for

communicating with Timeline Service. (Zhijie Shen via vinodkv)

YARN-2778. Moved node-lables' reports to the yarn nodes CLI from the admin

CLI. (Wangda Tan via vinodkv)

YARN-2770. Added functionality to renew/cancel TimeLineDelegationToken.

(Zhijie Shen via jianhe)

YARN-2818. Removed the now unnecessary user entity injection from Timeline

service given we now have domains. (Zhijie Shen via vinodkv)

YARN-2635. TestRM, TestRMRestart, TestClientToAMTokens should run

with both CS and FS. (Wei Yan and kasha via kasha)

YARN-2375. Allow enabling/disabling timeline server per framework.

(Mit Desai via jeagles)

OPTIMIZATIONS

BUG FIXES

YARN-2251. Avoid negative elapsed time in JHS/MRAM web UI and services.

(Zhijie Shen via junping\_du)

YARN-2088. Fixed a bug in GetApplicationsRequestPBImpl#mergeLocalToBuilder.

(Binglin Chang via jianhe)

YARN-2260. Fixed ResourceManager's RMNode to correctly remember containers

when nodes resync during work-preserving RM restart. (Jian He via vinodkv)

YARN-2264. Fixed a race condition in DrainDispatcher which may cause random

test failures. (Li Lu via jianhe)

YARN-2219. Changed ResourceManager to avoid AMs and NMs getting exceptions

after RM recovery but before scheduler learns about apps and app-attempts.

(Jian He via vinodkv)

YARN-2244. FairScheduler missing handling of containers for unknown

application attempts. (Anubhav Dhoot via kasha)

YARN-2321. NodeManager web UI can incorrectly report Pmem enforcement

(Leitao Guo via jlowe)

YARN-2273. NPE in ContinuousScheduling thread when we lose a node.

(Wei Yan via kasha)

YARN-2313. Livelock can occur in FairScheduler when there are lots of

running apps (Tsuyoshi Ozawa via Sandy Ryza)

YARN-2147. client lacks delegation token exception details when

application submit fails (Chen He via jlowe)

YARN-1796. container-executor shouldn't require o-r permissions (atm)

YARN-2354. DistributedShell may allocate more containers than client

specified after AM restarts. (Li Lu via jianhe)

YARN-2051. Fix bug in PBimpls and add more unit tests with reflection.

(Binglin Chang via junping\_du)

YARN-2374. Fixed TestDistributedShell#testDSShell failure due to hostname

dismatch. (Varun Vasudev via jianhe)

YARN-2359. Application hangs when it fails to launch AM container.

(Zhihai Xu via kasha)

YARN-2388. Fixed TestTimelineWebServices failure due to HADOOP-10791. (zjshen)

YARN-2008. Fixed CapacityScheduler to calculate headroom based on max available

capacity instead of configured max capacity. (Craig Welch via jianhe)

YARN-2400. Fixed TestAMRestart fails intermittently. (Jian He via xgong)

YARN-2361. RMAppAttempt state machine entries for KILLED state has duplicate

event entries. (Zhihai Xu via kasha)

YARN-2070. Made DistributedShell publish the short user name to the timeline

server. (Robert Kanter via zjshen)

YARN-2397. Avoided loading two authentication filters for RM and TS web

interfaces. (Varun Vasudev via zjshen)

YARN-2409. RM ActiveToStandBy transition missing stoping previous rmDispatcher.

(Rohith via jianhe)

YARN-2249. Avoided AM release requests being lost on work preserving RM

restart. (Jian He via zjshen)

YARN-2034. Description for yarn.nodemanager.localizer.cache.target-size-mb

is incorrect (Chen He via jlowe)

YARN-1919. Potential NPE in EmbeddedElectorService#stop.

(Tsuyoshi Ozawa via kasha)

YARN-2424. LCE should support non-cgroups, non-secure mode (Chris Douglas

via aw)

YARN-2434. RM should not recover containers from previously failed attempt

when AM restart is not enabled (Jian He via jlowe)

YARN-2035. FileSystemApplicationHistoryStore should not make working dir

when it already exists. (Jonathan Eagles via zjshen)

YARN-2405. NPE in FairSchedulerAppsBlock. (Tsuyoshi Ozawa via kasha)

YARN-2449. Fixed the bug that TimelineAuthenticationFilterInitializer

is not automatically added when hadoop.http.filter.initializers is not

configured. (Varun Vasudev via zjshen)

YARN-2450. Fix typos in log messages. (Ray Chiang via hitesh)

YARN-2447. RM web service app submission doesn't pass secrets correctly.

(Varun Vasudev via jianhe)

YARN-2462. TestNodeManagerResync#testBlockNewContainerRequestsOnStartAndResync

should have a test timeout (Eric Payne via jlowe)

YARN-2431. NM restart: cgroup is not removed for reacquired containers

(jlowe)

YARN-2519. Credential Provider related unit tests failed on Windows.

(Xiaoyu Yao via cnauroth)

YARN-2526. SLS can deadlock when all the threads are taken by AMSimulators.

(Wei Yan via kasha)

YARN-1458. FairScheduler: Zero weight can lead to livelock.

(Zhihai Xu via kasha)

YARN-2459. RM crashes if App gets rejected for any reason

and HA is enabled. (Jian He and Mayank Bansal via xgong)

YARN-2158. Fixed TestRMWebServicesAppsModification#testSingleAppKill test

failure. (Varun Vasudev via jianhe)

YARN-2534. FairScheduler: Potential integer overflow calculating totalMaxShare.

(Zhihai Xu via kasha)

YARN-2541. Fixed ResourceManagerRest.apt.vm table syntax error. (jianhe)

YARN-2484. FileSystemRMStateStore#readFile/writeFile should close

FSData(In|Out)putStream in final block (Tsuyoshi OZAWA via jlowe)

YARN-2456. Possible livelock in CapacityScheduler when RM is recovering apps.

(Jian He via xgong)

YARN-2542. Fixed NPE when retrieving ApplicationReport from TimeLineServer.

(Zhijie Shen via jianhe)

YARN-2528. Relaxed http response split vulnerability protection for the origins

header and made it accept multiple origins in CrossOriginFilter. (Jonathan

Eagles via zjshen)

YARN-2549. TestContainerLaunch fails due to classpath problem with hamcrest

classes. (cnauroth)

YARN-2529. Generic history service RPC interface doesn't work when service

authorization is enabled. (Zhijie Shen via jianhe)

YARN-2558. Updated ContainerTokenIdentifier#read/write to use

ContainerId#getContainerId. (Tsuyoshi OZAWA via jianhe)

YARN-2559. Fixed NPE in SystemMetricsPublisher when retrieving

FinalApplicationStatus. (Zhijie Shen via jianhe)

YARN-1779. Fixed AMRMClient to handle AMRMTokens correctly across

ResourceManager work-preserving-restart or failover. (Jian He via vinodkv)

YARN-2363. Submitted applications occasionally lack a tracking URL (jlowe)

YARN-2561. MR job client cannot reconnect to AM after NM restart. (Junping

Du via jlowe)

YARN-2563. Fixed YarnClient to call getTimeLineDelegationToken only if the

Token is not present. (Zhijie Shen via jianhe)

YARN-2568. Fixed the potential test failures due to race conditions when RM

work-preserving recovery is enabled. (Jian He via zjshen)

YARN-2565. Fixed RM to not use FileSystemApplicationHistoryStore unless

explicitly set. (Zhijie Shen via jianhe)

YARN-2460. Remove obsolete entries from yarn-default.xml (Ray Chiang via

aw)

YARN-2452. TestRMApplicationHistoryWriter fails with FairScheduler.

(Zhihai Xu via kasha)

YARN-2453. TestProportionalCapacityPreemptionPolicy fails with

FairScheduler. (Zhihai Xu via kasha)

YARN-2540. FairScheduler: Queue filters not working on scheduler page in

RM UI. (Ashwin Shankar via kasha)

YARN-2584. TestContainerManagerSecurity fails on trunk. (Jian He via

junping\_du)

YARN-2252. Intermittent failure of

TestFairScheduler.testContinuousScheduling.

(Ratandeep Ratti and kasha via kasha)

YARN-2161. Fix build on macosx: YARN parts (Binglin Chang via aw)

YARN-2596. TestWorkPreservingRMRestart fails with FairScheduler. (kasha)

YARN-2546. Made REST API for application creation/submission use numeric and

boolean types instead of the string of them. (Varun Vasudev via zjshen)

YARN-2523. ResourceManager UI showing negative value for "Decommissioned

Nodes" field (Rohith via jlowe)

YARN-2608. FairScheduler: Potential deadlocks in loading alloc files and

clock access. (Wei Yan via kasha)

YARN-2606. Application History Server tries to access hdfs before doing

secure login (Mit Desai via jeagles)

YARN-2610. Hamlet should close table tags. (Ray Chiang via kasha)

YARN-2387. Resource Manager crashes with NPE due to lack of

synchronization (Mit Desai via jlowe)

YARN-2594. Potential deadlock in RM when querying

ApplicationResourceUsageReport. (Wangda Tan via kasha)

YARN-2602. Fixed possible NPE in ApplicationHistoryManagerOnTimelineStore.

(Zhijie Shen via jianhe)

YARN-2630. Prevented previous AM container status from being acquired by the

current restarted AM. (Jian He via zjshen)

YARN-2617. Fixed NM to not send duplicate container status whose app is not

running. (Jun Gong via jianhe)

YARN-2624. Resource Localization fails on a cluster due to existing cache

directories (Anubhav Dhoot via jlowe)

YARN-2527. Fixed the potential NPE in ApplicationACLsManager and added test

cases for it. (Benoy Antony via zjshen)

YARN-2628. Capacity scheduler with DominantResourceCalculator carries out

reservation even though slots are free. (Varun Vasudev via jianhe)

YARN-2685. Fixed a bug in CommonNodeLabelsManager that caused wrong resource

tracking per label when a host runs multiple node-managers. (Wangda Tan via

vinodkv)

YARN-2699. Fixed a bug in CommonNodeLabelsManager that caused tests to fail

when using ephemeral ports on NodeIDs. (Wangda Tan via vinodkv)

YARN-2705. Fixed bugs in ResourceManager node-label manager that were causing

test-failures: added a dummy in-memory labels-manager. (Wangda Tan via

vinodkv)

YARN-2715. Fixed ResourceManager to respect common configurations for proxy

users/groups beyond just the YARN level config. (Zhijie Shen via vinodkv)

YARN-2743. Fixed a bug in ResourceManager that was causing RMDelegationToken

identifiers to be tampered and thus causing app submission failures in

secure mode. (Jian He via vinodkv)

YARN-3251. Fixed a deadlock in CapacityScheduler when computing

absoluteMaxAvailableCapacity in LeafQueue (Craig Welch via wangda)

BREAKDOWN OF YARN-1051 SUBTASKS AND RELATED JIRAS

YARN-1707. Introduce APIs to add/remove/resize queues in the

CapacityScheduler. (Carlo Curino and Subru Krishnan via curino)

YARN-2475. Logic for responding to capacity drops for the

ReservationSystem. (Carlo Curino and Subru Krishnan via curino)

YARN-1708. Public YARN APIs for creating/updating/deleting

reservations. (Subru Krishnan and Carlo Curino via subru)

YARN-1709. In-memory data structures used to track resources over

time to enable reservations. (Subru Krishnan and Carlo Curino via

subru)

YARN-1710. Logic to find allocations within a Plan that satisfy

user ReservationRequest(s). (Carlo Curino and Subru Krishnan via

curino)

YARN-1711. Policy to enforce instantaneous and over-time quotas

on user reservations. (Carlo Curino and Subru Krishnan via curino)

YARN-1712. Plan follower that synchronizes the current state of reservation

subsystem with the scheduler. (Subru Krishnan and Carlo Curino via subru)

YARN-2080. Integrating reservation system with ResourceManager and

client-RM protocol. (Subru Krishnan and Carlo Curino via subru)

MAPREDUCE-6103. Adding reservation APIs to MR resource manager

delegate. (Subru Krishnan and Carlo Curino via subru)

YARN-2576. Fixing compilation, javadocs and audit issues to pass

test patch in branch. (Subru Krishnan and Carlo Curino via subru)

YARN-2611. Fixing jenkins findbugs warning and TestRMWebServicesCapacitySched

for branch YARN-1051. (Subru Krishnan and Carlo Curino via subru)

YARN-2644. Fixed CapacityScheduler to return up-to-date headroom when

AM allocates. (Craig Welch via jianhe)

YARN-1857. CapacityScheduler headroom doesn't account for other AM's running.

(Chen He and Craig Welch via jianhe)

YARN-2649. Fixed TestAMRMRPCNodeUpdates test failure. (Ming Ma via jianhe)

YARN-2662. TestCgroupsLCEResourcesHandler leaks file descriptors. (cnauroth)

BREAKDOWN OF YARN-913 SUBTASKS AND RELATED JIRAS

YARN-2652 Add hadoop-yarn-registry package under hadoop-yarn. (stevel)

YARN-2668 yarn-registry JAR won't link against ZK 3.4.5. (stevel)

YARN-2689 TestSecureRMRegistryOperations failing on windows:

secure ZK won't start (stevel)

YARN-2692 ktutil test hanging on some machines/ktutil versions (stevel)

YARN-2700 TestSecureRMRegistryOperations failing on windows: auth problems

(stevel)

YARN-2677 registry punycoding of usernames doesn't fix all usernames to be

DNS-valid (stevel)

YARN-2768 Improved Yarn Registry service record structure (stevel)

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YARN-2598 GHS should show N/A instead of null for the inaccessible information

(Zhijie Shen via mayank)

YARN-2671. Fixed ApplicationSubmissionContext to still set resource for

backward compatibility. (Wangda Tan via zjshen)

YARN-2667. Fix the release audit warning caused by hadoop-yarn-registry

(Yi Liu via jlowe)

YARN-2651. Spun off LogRollingInterval from LogAggregationContext. (Xuan Gong

via zjshen)

YARN-2377. Localization exception stack traces are not passed as

diagnostic info (Gera Shegalov via jlowe)

YARN-2308. Changed CapacityScheduler to explicitly throw exception if the

queue to which the apps were submitted is changed across RM restart.

(Craig Welch & Chang Li via jianhe)

YARN-2566. DefaultContainerExecutor should pick a working directory randomly.

(Zhihai Xu via kasha)

YARN-2588. Standby RM fails to transitionToActive if previous

transitionToActive failed with ZK exception. (Rohith Sharmaks via jianhe)

YARN-2701. Potential race condition in startLocalizer when using

LinuxContainerExecutor. (Xuan Gong via jianhe)

YARN-2717. Avoided duplicate logging when container logs are not found. (Xuan

Gong via zjshen)

YARN-2720. Windows: Wildcard classpath variables not expanded against

resources contained in archives. (Craig Welch via cnauroth)

YARN-2721. Suppress NodeExist exception thrown by ZKRMStateStore when it

retries creating znode. (Jian He via zjshen)

YARN-2732. Fixed syntax error in SecureContainer.apt.vm. (Jian He via zjshen)

YARN-2724. Skipped uploading a local log file to HDFS if exception is raised

when opening it. (Xuan Gong via zjshen)

YARN-1915. Fixed a race condition that client could use the ClientToAMToken

to contact with AM before AM actually receives the ClientToAMTokenMasterKey.

(Jason Lowe via jianhe)

YARN-2314. Disable ContainerManagementProtocolProxy cache by default to

prevent creating thousands of threads in a large cluster. (Jason Lowe via

jianhe)

YARN-2723. Fix rmadmin -replaceLabelsOnNode does not correctly parse port.

(Naganarasimha G R via xgong)

YARN-2734. Skipped sub-folders in the local log dir when aggregating logs.

(Xuan Gong via zjshen)

YARN-2726. CapacityScheduler should explicitly log when an accessible

label has no capacity. (Wangda Tan via xgong)

YARN-2591. Fixed AHSWebServices to return FORBIDDEN(403) if the request user

doesn't have access to the history data. (Zhijie Shen via jianhe)

YARN-2279. Add UTs to cover timeline server authentication.

(Zhijie Shen via xgong)

YARN-2758. Update TestApplicationHistoryClientService to use the new generic

history store. (Zhijie Shen via xgong)

YARN-2741. Made NM web UI serve logs on the drive other than C: on Windows. (Craig

Welch via zjshen)

YARN-2747. Fixed the test failure of TestAggregatedLogFormat when native I/O is

enabled. (Xuan Gong via zjshen)

YARN-2769. Fixed the problem that timeline domain is not set in distributed shell

AM when using shell\_command on Windows. (Varun Vasudev via zjshen)

YARN-2755. NM fails to clean up usercache\_DEL\_<timestamp> dirs after

YARN-661 (Siqi Li via jlowe)

YARN-2698. Moved some node label APIs to be correctly placed in client

protocol. (Wangda Tan via vinodkv)

YARN-2789. Re-instated the NodeReport.newInstance private unstable API

modified in YARN-2698 so that tests in YARN frameworks don't break. (Wangda

Tan via vinodkv)

YARN-2707. Potential null dereference in FSDownload (Gera Shegalov via

jlowe)

YARN-2711. Fixed TestDefaultContainerExecutor#testContainerLaunchError failure on

Windows. (Varun Vasudev via zjshen)

YARN-2790. Fixed a NodeManager bug that was causing log-aggregation to fail

beyond HFDS delegation-token expiry even when RM is a proxy-user (YARN-2704).

(Jian He via vinodkv)

YARN-2785. Fixed intermittent TestContainerResourceUsage failure. (Varun Vasudev

via zjshen)

YARN-2730. DefaultContainerExecutor runs only one localizer at a time

(Siqi Li via jlowe)

YARN-2798. Fixed YarnClient to populate the renewer correctly for Timeline

delegation tokens. (Zhijie Shen via vinodkv)

YARN-2788. Fixed backwards compatiblity issues with log-aggregation feature

that were caused when adding log-upload-time via YARN-2703. (Xuan Gong via

vinodkv)

YARN-2795. Fixed ResourceManager to not crash loading node-label data from

HDFS in secure mode. (Wangda Tan via vinodkv)

YARN-1922. Fixed NodeManager to kill process-trees correctly in the presence

of races between the launch and the stop-container call and when root

processes crash. (Billie Rinaldi via vinodkv)

YARN-2752. Made ContainerExecutor append "nice -n" arg only when priority

adjustment flag is set. (Xuan Gong via zjshen)

YARN-2010. Handle app-recovery failures gracefully.

(Jian He and Karthik Kambatla via kasha)

YARN-2804. Fixed Timeline service to not fill the logs with JAXB bindings

exceptions. (Zhijie Shen via vinodkv)

YARN-2767. Added a test case to verify that http static user cannot kill or submit

apps in the secure mode. (Varun Vasudev via zjshen)

YARN-2805. Fixed ResourceManager to load HA configs correctly before kerberos

login. (Wangda Tan via vinodkv)

YARN-2579. Fixed a deadlock issue when EmbeddedElectorService and

FatalEventDispatcher try to transition RM to StandBy at the same time.

(Rohith Sharmaks via jianhe)

YARN-2813. Fixed NPE from MemoryTimelineStore.getDomains. (Zhijie Shen via xgong)

YARN-2812. TestApplicationHistoryServer is likely to fail on less powerful machine.

(Zhijie Shen via xgong)

YARN-2744. Fixed CapacityScheduler to validate node-labels correctly against

queues. (Wangda Tan via vinodkv)

YARN-2823. Fixed ResourceManager app-attempt state machine to inform

schedulers about previous finished attempts of a running appliation to avoid

expectation mismatch w.r.t transferred containers. (Jian He via vinodkv)

YARN-2810. TestRMProxyUsersConf fails on Windows VMs. (Varun Vasudev via xgong)

YARN-2824. Fixed Capacity Scheduler to not crash when some node-labels are

not mapped to queues by making default capacities per label to be zero.

(Wangda Tan via vinodkv)

YARN-2827. Fixed bugs in "yarn queue" CLI. (Wangda Tan via vinodkv).

YARN-2803. MR distributed cache not working correctly on Windows after

NodeManager privileged account changes. (Craig Welch via cnauroth)

YARN-2753. Fixed a bunch of bugs in the NodeLabelsManager classes. (Zhihai xu

via vinodkv)

YARN-2825. Container leak on NM (Jian He via jlowe)

YARN-2819. NPE in ATS Timeline Domains when upgrading from 2.4 to 2.6.

(Zhijie Shen via xgong)

YARN-2826. Fixed user-groups mappings' refresh bug caused by YARN-2826.

(Wangda Tan via vinodkv)

YARN-2607. Fixed issues in TestDistributedShell. (Wangda Tan via vinodkv)

YARN-2830. Add backwords compatible ContainerId.newInstance constructor.

(jeagles via acmurthy)

YARN-2834. Fixed ResourceManager to ignore token-renewal failures on recovery

consistent with the (somewhat incorrect) behaviour in the non-recovery case.

(Jian He via vinodkv)

YARN-2841. RMProxy should retry EOFException. (Jian He via xgong)

YARN-2843. Fixed NodeLabelsManager to trim inputs for hosts and labels so

as to make them work correctly. (Wangda Tan via vinodkv)

YARN-2794. Fixed log messages about distributing system-credentials. (Jian He via

zjshen)

YARN-2846. Incorrect persist exit code for running containers in

reacquireContainer() that interrupted by NodeManager restart. (Junping Du

via jlowe)

YARN-2853. Fixed a bug in ResourceManager causing apps to hang when the user

kill request races with ApplicationMaster finish. (Jian He via vinodkv)

Release 2.5.2 - 2014-11-19

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.5.1 - 2014-09-05

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.5.0 - 2014-08-11

INCOMPATIBLE CHANGES

NEW FEATURES

YARN-1757. NM Recovery. Auxiliary service support. (Jason Lowe via kasha)

YARN-1864. Fair Scheduler Dynamic Hierarchical User Queues (Ashwin Shankar

via Sandy Ryza)

YARN-1362. Distinguish between nodemanager shutdown for decommission vs shutdown

for restart. (Jason Lowe via junping\_du)

YARN-1338. Recover localized resource cache state upon nodemanager restart

(Jason Lowe via junping\_du)

YARN-1368. Added core functionality of recovering container state into

schedulers after ResourceManager Restart so as to preserve running work in

the cluster. (Jian He via vinodkv)

YARN-1702. Added kill app functionality to RM web services. (Varun Vasudev

via vinodkv)

YARN-1339. Recover DeletionService state upon nodemanager restart. (Jason Lowe

via junping\_du)

YARN-1365. Changed ApplicationMasterService to allow an app to re-register

after RM restart. (Anubhav Dhoot via jianhe)

YARN-2052. Embedded an epoch number in container id to ensure the uniqueness

of container id after RM restarts. (Tsuyoshi OZAWA via jianhe)

YARN-1713. Added get-new-app and submit-app functionality to RM web services.

(Varun Vasudev via vinodkv)

YARN-2233. Implemented ResourceManager web-services to create, renew and

cancel delegation tokens. (Varun Vasudev via vinodkv)

YARN-2247. Made RM web services authenticate users via kerberos and delegation

token. (Varun Vasudev via zjshen)

IMPROVEMENTS

YARN-1479. Invalid NaN values in Hadoop REST API JSON response (Chen He via

jeagles)

YARN-1736. FS: AppSchedulable.assignContainer's priority argument is

redundant. (Naren Koneru via kasha)

YARN-1678. Fair scheduler gabs incessantly about reservations (Sandy Ryza)

YARN-1561. Fix a generic type warning in FairScheduler. (Chen He via junping\_du)

YARN-1429. \*nix: Allow a way for users to augment classpath of YARN daemons.

(Jarek Jarcec Cecho via kasha)

YARN-1520. update capacity scheduler docs to include necessary parameters

(Chen He via jeagles)

YARN-1845. Elapsed time for failed tasks that never started is wrong

(Rushabh S Shah via jeagles)

YARN-1136. Replace junit.framework.Assert with org.junit.Assert (Chen He

via jeagles)

YARN-1889. In Fair Scheduler, avoid creating objects on each call to

AppSchedulable comparator (Hong Zhiguo via Sandy Ryza)

YARN-1923. Make Fair Scheduler resource ratio calculations terminate faster

(Anubhav Dhoot via Sandy Ryza)

YARN-1870. FileInputStream is not closed in ProcfsBasedProcessTree#constructProcessSMAPInfo.

(Fengdong Yu via junping\_du)

YARN-1970. Prepare YARN codebase for JUnit 4.11. (cnauroth)

YARN-483. Improve documentation on log aggregation in yarn-default.xml

(Akira Ajisaka via Sandy Ryza)

YARN-2036. Document yarn.resourcemanager.hostname in ClusterSetup (Ray

Chiang via Sandy Ryza)

YARN-766. TestNodeManagerShutdown in branch-2 should use Shell to form the output path and a format

issue in trunk. (Contributed by Siddharth Seth)

YARN-1982. Renamed the daemon name to be TimelineServer instead of History

Server and deprecated the old usage. (Zhijie Shen via vinodkv)

YARN-1987. Wrapper for leveldb DBIterator to aid in handling database exceptions.

(Jason Lowe via kasha)

YARN-1751. Improve MiniYarnCluster for log aggregation testing (Ming Ma

via jlowe)

YARN-1981. Nodemanager version is not updated when a node reconnects (Jason

Lowe via jeagles)

YARN-1938. Added kerberos login for the Timeline Server. (Zhijie Shen via

vinodkv)

YARN-2017. Merged some of the common scheduler code. (Jian He via vinodkv)

YARN-2049. Added delegation-token support for the Timeline Server. (Zhijie

Shen via vinodkv)

YARN-1936. Added security support for the Timeline Client. (Zhijie Shen via

vinodkv)

YARN-1937. Added owner-only ACLs support for Timeline Client and server.

(Zhijie Shen via vinodkv)

YARN-2012. Fair Scheduler: allow default queue placement rule to take an

arbitrary queue (Ashwin Shankar via Sandy Ryza)

YARN-2059. Added admin ACLs support to Timeline Server. (Zhijie Shen via

vinodkv)

YARN-2073. Fair Scheduler: Add a utilization threshold to prevent preempting

resources when cluster is free (Karthik Kambatla via Sandy Ryza)

YARN-2071. Modified levelDB store permissions to be readable only by the

server user. (Zhijie Shen via vinodkv)

YARN-2107. Refactored timeline classes into o.a.h.y.s.timeline package. (Vinod

Kumar Vavilapalli via zjshen)

YARN-596. Use scheduling policies throughout the queue hierarchy to decide

which containers to preempt (Wei Yan via Sandy Ryza)

YARN-2054. Better defaults for YARN ZK configs for retries and retry-inteval

when HA is enabled. (kasha)

YARN-1877. Document yarn.resourcemanager.zk-auth and its scope.

(Robert Kanter via kasha)

YARN-2115. Replaced RegisterNodeManagerRequest's ContainerStatus with a new

NMContainerStatus which has more information that is needed for

work-preserving RM-restart. (Jian He via vinodkv)

YARN-1474. Make sechedulers services. (Tsuyoshi Ozawa via kasha)

YARN-1913. With Fair Scheduler, cluster can logjam when all resources are

consumed by AMs (Wei Yan via Sandy Ryza)

YARN-2061. Revisit logging levels in ZKRMStateStore. (Ray Chiang via kasha)

YARN-1977. Add tests on getApplicationRequest with filtering start time range. (junping\_du)

YARN-2122. In AllocationFileLoaderService, the reloadThread should be created

in init() and started in start(). (Robert Kanter via kasha)

YARN-2132. ZKRMStateStore.ZKAction#runWithRetries doesn't log the exception

it encounters. (Vamsee Yarlagadda via kasha)

YARN-2030. Augmented RMStateStore with state machine.(Binglin Chang via jianhe)

YARN-1424. RMAppAttemptImpl should return the

DummyApplicationResourceUsageReport for all invalid accesses.

(Ray Chiang via kasha)

YARN-2091. Add more values to ContainerExitStatus and pass it from NM to

RM and then to app masters (Tsuyoshi OZAWA via bikas)

YARN-2125. Changed ProportionalCapacityPreemptionPolicy to log CSV in debug

level. (Wangda Tan via jianhe)

YARN-2159. Better logging in SchedulerNode#allocateContainer.

(Ray Chiang via kasha)

YARN-2191. Added a new test to ensure NM will clean up completed applications

in the case of RM restart. (Wangda Tan via jianhe)

YARN-2195. Clean a piece of code in ResourceRequest. (Wei Yan via devaraj)

YARN-2074. Changed ResourceManager to not count AM preemptions towards app

failures. (Jian He via vinodkv)

YARN-2192. TestRMHA fails when run with a mix of Schedulers.

(Anubhav Dhoot via kasha)

YARN-2109. Fix TestRM to work with both schedulers. (Anubhav Dhoot via kasha)

YARN-2072. RM/NM UIs and webservices are missing vcore information.

(Nathan Roberts via tgraves)

YARN-2152. Added missing information into ContainerTokenIdentifier so that

NodeManagers can report the same to RM when RM restarts. (Jian He via vinodkv)

YARN-2171. Improved CapacityScheduling to not lock on nodemanager-count when

AMs heartbeat in. (Jason Lowe via vinodkv)

YARN-614. Changed ResourceManager to not count disk failure, node loss and

RM restart towards app failures. (Xuan Gong via jianhe)

YARN-2224. Explicitly enable vmem check in

TestContainersMonitor#testContainerKillOnMemoryOverflow.

(Anubhav Dhoot via kasha)

YARN-2022. Preempting an Application Master container can be kept as least priority

when multiple applications are marked for preemption by

ProportionalCapacityPreemptionPolicy (Sunil G via mayank)

YARN-2241. ZKRMStateStore: On startup, show nicer messages if znodes already

exist. (Robert Kanter via kasha)

YARN-1408 Preemption caused Invalid State Event: ACQUIRED at KILLED and caused

a task timeout for 30mins. (Sunil G via mayank)

YARN-2300. Improved the documentation of the sample requests for RM REST API -

submitting an app. (Varun Vasudev via zjshen)

OPTIMIZATIONS

BUG FIXES

YARN-1718. Fix a couple isTerminals in Fair Scheduler queue placement rules

(Sandy Ryza)

YARN-1790. Fair Scheduler UI not showing apps table (bc Wong via Sandy Ryza)

YARN-1784. TestContainerAllocation assumes CapacityScheduler.

(Robert Kanter via kasha)

YARN-1940. deleteAsUser() terminates early without deleting more files on

error (Rushabh S Shah via jlowe)

YARN-1865. ShellScriptBuilder does not check for some error conditions.

(Remus Rusanu via ivanmi)

YARN-738. TestClientRMTokens is failing irregularly while running all yarn

tests (Ming Ma via jlowe)

YARN-2018. TestClientRMService.testTokenRenewalWrongUser fails after

HADOOP-10562 (Ming Ma via Arpit Agarwal)

YARN-2011. Fix typo and warning in TestLeafQueue (Chen He via junping\_du)

YARN-2042. String shouldn't be compared using == in

QueuePlacementRule#NestedUserQueue#getQueueForApp (Chen He via Sandy Ryza)

YARN-2050. Fix LogCLIHelpers to create the correct FileContext (Ming Ma

via jlowe)

YARN-2089. FairScheduler: QueuePlacementPolicy and QueuePlacementRule

are missing audience annotations. (Zhihai Xu via kasha)

YARN-2096. Race in TestRMRestart#testQueueMetricsOnRMRestart.

(Anubhav Dhoot via kasha)

YARN-2105. Fix TestFairScheduler after YARN-2012. (Ashwin Shankar via

Sandy Ryza)

YARN-2112. Fixed yarn-common's pom.xml to include jackson dependencies so

that both Timeline Server and client can access them. (Zhijie Shen via

vinodkv)

YARN-1868. YARN status web ui does not show correctly in IE 11.

(Chuan Liu via cnauroth)

YARN-2103. Inconsistency between viaProto flag and initial value of

SerializedExceptionProto.Builder (Binglin Chang via junping\_du)

YARN-1550. NPE in FairSchedulerAppsBlock#render. (Anubhav Dhoot via kasha)

YARN-2119. DEFAULT\_PROXY\_ADDRESS should use DEFAULT\_PROXY\_PORT.

(Anubhav Dhoot via kasha)

YARN-2118. Fixed the type mismatch in Map#containsKey check of

TimelineWebServices#injectOwnerInfo. (Ted Yu via zjshen)

YARN-2117. Fixed the issue that secret file reader is potentially not

closed in TimelineAuthenticationFilterInitializer. (Chen He via zjshen)

YARN-2121. Fixed NPE handling in Timeline Server's TimelineAuthenticator.

(Zhijie Shen via vinodkv)

YARN-2128. FairScheduler: Incorrect calculation of amResource usage.

(Wei Yan via kasha)

YARN-2124. Fixed NPE in ProportionalCapacityPreemptionPolicy. (Wangda Tan

via jianhe)

YARN-2148. TestNMClient failed due more exit code values added and passed

to AM (Wangda Tan via bikas)

YARN-2075. Fixed the test failure of TestRMAdminCLI. (Kenji Kikushima via

zjshen)

YARN-2155. FairScheduler: Incorrect threshold check for preemption.

(Wei Yan via kasha)

YARN-1885. Fixed a bug that RM may not send application-clean-up signal

to NMs where the completed applications previously ran in case of RM restart.

(Wangda Tan via jianhe)

YARN-2167. LeveldbIterator should get closed in

NMLeveldbStateStoreService#loadLocalizationState() within finally block

(Junping Du via jlowe)

YARN-2187. FairScheduler: Disable max-AM-share check by default.

(Robert Kanter via kasha)

YARN-2111. In FairScheduler.attemptScheduling, we don't count containers

as assigned if they have 0 memory but non-zero cores (Sandy Ryza)

YARN-2204. TestAMRestart#testAMRestartWithExistingContainers assumes

CapacityScheduler. (Robert Kanter via kasha)

YARN-2163. WebUI: Order of AppId in apps table should be consistent with

ApplicationId.compareTo(). (Wangda Tan via raviprak)

YARN-2104. Scheduler queue filter failed to work because index of queue

column changed. (Wangda Tan via jlowe)

YARN-2201. Made TestRMWebServicesAppsModification be independent of the

changes on yarn-default.xml. (Varun Vasudev via zjshen)

YARN-2216 TestRMApplicationHistoryWriter sometimes fails in trunk.

(Zhijie Shen via xgong)

YARN-2216 YARN-2065 AM cannot create new containers after restart

(Jian He via stevel)

YARN-2232. Fixed ResourceManager to allow DelegationToken owners to be able

to cancel their own tokens in secure mode. (Varun Vasudev via vinodkv)

YARN-2250. FairScheduler.findLowestCommonAncestorQueue returns null when

queues not identical (Krisztian Horvath via Sandy Ryza)

YARN-2158. Improved assertion messages of TestRMWebServicesAppsModification.

(Varun Vasudev via zjshen)

YARN-2269. Remove External links from YARN UI. (Craig Welch via xgong)

YARN-2270. Made TestFSDownload#testDownloadPublicWithStatCache be skipped

when there’s no ancestor permissions. (Akira Ajisaka via zjshen)

YARN-2319. Made the MiniKdc instance start/close before/after the class of

TestRMWebServicesDelegationTokens. (Wenwu Peng via zjshen)

YARN-2335. Annotate all hadoop-sls APIs as @Private. (Wei Yan via kasha)

YARN-1726. ResourceSchedulerWrapper broken due to AbstractYarnScheduler.

(Wei Yan via kasha)

Release 2.4.1 - 2014-06-23

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

YARN-1892. Improved some logs in the scheduler. (Jian He via zjshen)

YARN-1696. Added documentation for ResourceManager fail-over. (Karthik

Kambatla, Masatake Iwasaki, Tsuyoshi OZAWA via vinodkv)

YARN-1701. Improved default paths of the timeline store and the generic

history store. (Tsuyoshi Ozawa via zjshen)

YARN-1962. Changed Timeline Service client configuration to be off by default

given the non-readiness of the feature yet. (Mohammad Kamrul Islam via

vinodkv)

OPTIMIZATIONS

BUG FIXES

YARN-1898. Made Standby RM links conf, stacks, logLevel, metrics, jmx, logs

and static not be redirected to Active RM. (Xuan Gong via zjshen)

YARN-1837. Fixed TestMoveApplication#testMoveRejectedByScheduler failure.

(Hong Zhiguo via jianhe)

YARN-1905. TestProcfsBasedProcessTree must only run on Linux. (cnauroth)

YARN-1883. TestRMAdminService fails due to inconsistent entries in

UserGroups (Mit Desai via jeagles)

YARN-1908. Fixed DistributedShell to not fail in secure clusters. (Vinod

Kumar Vavilapalli and Jian He via vinodkv)

YARN-1910. Fixed a race condition in TestAMRMTokens that causes the test to

fail more often on Windows. (Xuan Gong via vinodkv)

YARN-1920. Fixed TestFileSystemApplicationHistoryStore failure on windows.

(Vinod Kumar Vavilapalli via zjshen)

YARN-1914. Fixed resource-download on NodeManagers to skip permission

verification of public cache files in Windows+local file-system environment.

(Varun Vasudev via vinodkv)

YARN-1903. Set exit code and diagnostics when container is killed at

NEW/LOCALIZING state. (Zhijie Shen via jianhe)

YARN-1924. Made ZKRMStateStore updateApplication(Attempt)StateInternal work

when Application(Attempt) state hasn't been stored before. (Jian He via

zjshen)

YARN-1926. Changed DistributedShell to use appIDs as unique identifiers for

HDFS paths and thus avoid test failures on Windows. (Varun Vasudev via

vinodkv)

YARN-1833. TestRMAdminService Fails in trunk and branch-2 (Mit Desai via

jeagles)

YARN-1907. TestRMApplicationHistoryWriter#testRMWritingMassiveHistory

intermittently fails. (Mit Desai via kihwal)

YARN-1933. Fixed test issues with TestAMRestart and TestNodeHealthService.

(Jian He via vinodkv)

YARN-1928. Fixed a race condition in TestAMRMRPCNodeUpdates which caused it

to fail occassionally. (Zhijie Shen via vinodkv)

YARN-1934. Fixed a potential NPE in ZKRMStateStore caused by handling

Disconnected event from ZK. (Karthik Kambatla via jianhe)

YARN-1931. Private API change in YARN-1824 in 2.4 broke compatibility

with previous releases (Sandy Ryza via tgraves)

YARN-1750. TestNodeStatusUpdater#testNMRegistration is incorrect in test

case. (Wangda Tan via junping\_du)

YARN-1947. TestRMDelegationTokens#testRMDTMasterKeyStateOnRollingMasterKey

is failing intermittently. (Jian He via junping\_du)

YARN-1281. Fixed TestZKRMStateStoreZKClientConnections to not fail

intermittently due to ZK-client timeouts. (Tsuyoshi Ozawa via vinodkv)

YARN-1932. Javascript injection on the job status page (Mit Desai via

jlowe)

YARN-1975. Used resources shows escaped html in CapacityScheduler and

FairScheduler page (Mit Desai via jlowe)

YARN-1929. Fixed a deadlock in ResourceManager that occurs when failover

happens right at the time of shutdown. (Karthik Kambatla via vinodkv)

YARN-1201. TestAMAuthorization fails with local hostname cannot be resolved.

(Wangda Tan via junping\_du)

YARN-1861. Fixed a bug in RM to reset leader-election on fencing that was

causing both RMs to be stuck in standby mode when automatic failover is

enabled. (Karthik Kambatla and Xuan Gong via vinodkv)

YARN-1957. Consider the max capacity of the queue when computing the ideal

capacity for preemption. (Carlo Curino via cdouglas)

YARN-1986. In Fifo Scheduler, node heartbeat in between creating app and

attempt causes NPE (Hong Zhiguo via Sandy Ryza)

YARN-1976. Fix yarn application CLI to print the scheme of the tracking url

of failed/killed applications. (Junping Du via jianhe)

YARN-2016. Fix a bug in GetApplicationsRequestPBImpl to add the missed fields

to proto. (Junping Du via jianhe)

YARN-2053. Fixed a bug in AMS to not add null NMToken into NMTokens list from

previous attempts for work-preserving AM restart. (Wangda Tan via jianhe)

YARN-2066. Wrong field is referenced in GetApplicationsRequestPBImpl#mergeLocalToBuilder()

(Hong Zhiguo via junping\_du)

YARN-2081. Fixed TestDistributedShell failure after YARN-1962. (Zhiguo Hong

via zjshen)

Release 2.4.0 - 2014-04-07

INCOMPATIBLE CHANGES

NEW FEATURES

YARN-930. Bootstrapping ApplicationHistoryService module. (vinodkv)

YARN-947. Implementing the data objects to be used by the History reader

and writer interfaces. (Zhijie Shen via vinodkv)

YARN-934. Defined a Writer Interface for HistoryStorage. (Zhijie Shen via

vinodkv)

YARN-925. Defined a Reader Interface for HistoryStorage. (Mayank Bansal via

vinodkv)

YARN-978. Created ApplicationAttemptReport. (Mayank Bansal via vinodkv)

YARN-956. Added a testable in-memory HistoryStorage. (Mayank Bansal via

vinodkv)

YARN-975. Added a file-system implementation for HistoryStorage. (Zhijie Shen

via vinodkv)

YARN-1123. Added a new ContainerReport and its Protobuf implementation. (Mayank

Bansal via vinodkv)

YARN-979. Added more APIs for getting information about ApplicationAttempts

and Containers from ApplicationHistoryProtocol. (Mayank Bansal and Zhijie Shen

via vinodkv)

YARN-953. Changed ResourceManager to start writing history data. (Zhijie Shen

via vinodkv)

YARN-1266. Implemented PB service and client wrappers for

ApplicationHistoryProtocol. (Mayank Bansal via vinodkv)

YARN-955. Implemented ApplicationHistoryProtocol handler. (Mayank Bansal via

vinodkv)

YARN-1242. Changed yarn scripts to be able to start ApplicationHistoryServer

as an individual process. (Mayank Bansal via vinodkv)

YARN-954. Implemented web UI for the ApplicationHistoryServer and wired it into

the HistoryStorage. (Zhijie Shen via vinodkv)

YARN-967. Added the client and CLI interfaces for obtaining ApplicationHistory

data. (Mayank Bansal via vinodkv)

YARN-1023. Added Webservices REST APIs support for Application History. (Zhijie

Shen via vinodkv)

YARN-1413. Implemented serving of aggregated-logs in the ApplicationHistory

server. (Mayank Bansal via vinodkv)

YARN-1633. Defined user-facing entity, entity-info and event objects related

to Application Timeline feature. (Zhijie Shen via vinodkv)

YARN-1611. Introduced the concept of a configuration provider which can be

used by ResourceManager to read configuration locally or from remote systems

so as to help RM failover. (Xuan Gong via vinodkv)

YARN-1659. Defined the ApplicationTimelineStore store as an abstraction for

implementing different storage impls for storing timeline information.

(Billie Rinaldi via vinodkv)

YARN-1634. Added a testable in-memory implementation of

ApplicationTimelineStore. (Zhijie Shen via vinodkv)

YARN-1461. Added tags for YARN applications and changed RM to handle them.

(Karthik Kambatla via zjshen)

YARN-1636. Augmented Application-history server's web-services to also expose

new APIs for retrieving and storing timeline information. (Zhijie Shen via

vinodkv)

YARN-1490. Introduced the ability to make ResourceManager optionally not kill

all containers when an ApplicationMaster exits. (Jian He via vinodkv)

YARN-1041. Added the ApplicationMasterProtocol API for applications to use the

ability in ResourceManager to optionally not kill containers when the

ApplicationMaster exits. (Jian He via vinodkv)

YARN-1566. Changed Distributed Shell to retain containers across application

attempts. (Jian He via vinodkv)

YARN-1635. Implemented a Leveldb based ApplicationTimelineStore. (Billie

Rinaldi via zjshen)

YARN-1637. Implemented a client library for Java users to post timeline

entities and events. (zjshen)

YARN-1496. Protocol additions to allow moving apps between queues (Sandy

Ryza)

YARN-1498. Common scheduler changes for moving apps between queues (Sandy

Ryza)

YARN-1504. RM changes for moving apps between queues (Sandy Ryza)

YARN-1499. Fair Scheduler changes for moving apps between queues (Sandy

Ryza)

YARN-1497. Command line additions for moving apps between queues (Sandy

Ryza)

YARN-1588. Enhanced RM and the scheduling protocol to also send NMTokens of

transferred containers from previous app-attempts to new AMs after YARN-1490.

(Jian He via vinodkv)

YARN-1717. Enabled periodically discarding old data in LeveldbTimelineStore.

(Billie Rinaldi via zjshen)

YARN-1690. Made DistributedShell send timeline entities+events. (Mayank Bansal

via zjshen)

YARN-1775. Enhanced ProcfsBasedProcessTree to optionally add the ability to

use smaps for obtaining used memory information. (Rajesh Balamohan via

vinodkv)

YARN-1838. Enhanced timeline service getEntities API to get entities from a

given entity ID or insertion timestamp. (Billie Rinaldi via zjshen)

IMPROVEMENTS

YARN-1007. Enhance History Reader interface for Containers. (Mayank Bansal via

devaraj)

YARN-974. Added more information to RMContainer to be collected and recorded in

Application-History. (Zhijie Shen via vinodkv)

YARN-987. Added ApplicationHistoryManager responsible for exposing reports to

all clients. (Mayank Bansal via vinodkv)

YARN-1630. Introduce timeout for async polling operations in YarnClientImpl

(Aditya Acharya via Sandy Ryza)

YARN-1617. Remove ancient comment and surround LOG.debug in

AppSchedulingInfo.allocate (Sandy Ryza)

YARN-1639. Modified RM HA configuration handling to have a way of not

requiring separate configuration files for each RM. (Xuan Gong via vinodkv)

YARN-1668. Modified RM HA handling of admin-acls to be available across RM

failover by making using of a remote configuration-provider. (Xuan Gong via

vinodkv)

YARN-1667. Modified RM HA handling of super users (with proxying ability) to

be available across RM failover by making using of a remote

configuration-provider. (Xuan Gong via vinodkv)

YARN-1285. Changed the default value of yarn.acl.enable in yarn-default.xml

to be consistent with what exists (false) in the code and documentation.

(Kenji Kikushima via vinodkv)

YARN-1669. Modified RM HA handling of protocol level service-ACLS to

be available across RM failover by making using of a remote

configuration-provider. (Xuan Gong via vinodkv)

YARN-1665. Simplify the configuration of RM HA by having better default

values. (Xuan Gong via vinodkv)

YARN-1660. Simplified the RM HA configuration to accept and be able to simply

depend just on configuration properties of the form

yarn.resourcemanager.hostname.RMID and use the default ports for all service

addresses. (Xuan Gong via vinodkv)

YARN-1493. Changed ResourceManager and Scheduler interfacing to recognize

app-attempts separately from apps. (Jian He via vinodkv)

YARN-1459. Changed ResourceManager to depend its service initialization

on the configuration-provider mechanism during startup too. (Xuan Gong via

vinodkv)

YARN-1706. Created an utility method to dump timeline records to JSON

strings. (zjshen)

YARN-1641. ZK store should attempt a write periodically to ensure it is

still Active. (kasha)

YARN-1531. True up yarn command documentation (Akira Ajisaka via kasha)

YARN-1345. Remove FINAL\_SAVING state from YarnApplicationAttemptState

(Zhijie Shen via jianhe)

YARN-1676. Modified RM HA handling of user-to-group mappings to

be available across RM failover by making using of a remote

configuration-provider. (Xuan Gong via vinodkv)

YARN-1666. Modified RM HA handling of include/exclude node-lists to be

available across RM failover by making using of a remote

configuration-provider. (Xuan Gong via vinodkv)

YARN-1171. Add default queue properties to Fair Scheduler documentation

(Naren Koneru via Sandy Ryza)

YARN-1470. Add audience annotations to MiniYARNCluster. (Anubhav Dhoot

via kasha)

YARN-1732. Changed types of related-entities and primary-filters in the

timeline-service to be sets instead of maps. (Billie Rinaldi via vinodkv)

YARN-1687. Renamed user-facing records for the timeline-service to be simply

named after 'timeline' instead of 'apptimeline'. (Zhijie Shen via vinodkv)

YARN-1749. Updated application-history related configs to reflect the latest

reality and to be consistently named. (Zhijie Shen via vinodkv)

YARN-1301. Added the INFO level log of the non-empty blacklist additions

and removals inside ApplicationMasterService. (Tsuyoshi Ozawa via zjshen)

YARN-1528. Allow setting auth for ZK connections. (kasha)

YARN-1704. Modified LICENSE and NOTICE files to reflect newly used levelDB

related libraries. (Billie Rinaldi via vinodkv)

YARN-1765. Added test cases to verify that killApplication API works across

ResourceManager failover. (Xuan Gong via vinodkv)

YARN-1730. Implemented simple write-locking in the LevelDB based timeline-

store. (Billie Rinaldi via vinodkv)

YARN-986. Changed client side to be able to figure out the right RM Delegation

token for the right ResourceManager when HA is enabled. (Karthik Kambatla via

vinodkv)

YARN-1761. Modified RMAdmin CLI to check whether HA is enabled or not before

it executes any of the HA admin related commands. (Xuan Gong via vinodkv)

YARN-1780. Improved logging in the Timeline client and server. (Zhijie Shen

via vinodkv)

YARN-1525. Web UI should redirect to active RM when HA is enabled. (Cindy Li

via kasha)

YARN-1781. Modified NodeManagers to allow admins to specify max disk

utilization for local disks so as to be able to offline full disks. (Varun

Vasudev via vinodkv)

YARN-1410. Added tests to validate that clients can fail-over to a new RM

after getting an application-ID but before submission and can still submit to

the newly active RM with no issues. (Xuan Gong via vinodkv)

YARN-1764. Modified YarnClient to correctly handle failover of ResourceManager

after the submitApplication call goes through. (Xuan Gong via vinodkv)

YARN-1389. Made ApplicationClientProtocol and ApplicationHistoryProtocol

expose analogous getApplication(s)/Attempt(s)/Container(s) APIs. (Mayank

Bansal via zjshen)

YARN-1658. Modified web-app framework to let standby RMs redirect

web-service calls to the active RM. (Cindy Li via vinodkv)

YARN-1824. Improved NodeManager and clients to be able to handle cross

platform application submissions. (Jian He via vinodkv)

YARN-1512. Enhanced CapacityScheduler to be able to decouple scheduling from

node-heartbeats. (Arun C Murthy via vinodkv)

YARN-1570. Fixed formatting of the lines in YarnCommands.apt.vm docs source.

(Akira Ajisaka via vinodkv)

YARN-1536. Cleanup: Get rid of ResourceManager#get\*SecretManager() methods

and use the RMContext methods instead. (Anubhav Dhoot via kasha)

YARN-1850. Introduced the ability to optionally disable sending out timeline-

events in the TimelineClient. (Zhijie Shen via vinodkv)

YARN-1452. Added documentation about the configuration and usage of generic

application history and the timeline data service. (Zhijie Shen via vinodkv)

YARN-1891. Added documentation for NodeManager health-monitoring. (Varun

Vasudev via vinodkv)

YARN-1017. Added documentation for ResourceManager Restart.(jianhe)

OPTIMIZATIONS

YARN-1771. Reduce the number of NameNode operations during localization of

public resources using a cache. (Sangjin Lee via cdouglas)

BUG FIXES

YARN-935. Correcting pom.xml to build applicationhistoryserver module

successfully. (Zhijie Shen via vinodkv)

YARN-962. Fixed bug in application-history proto file and renamed it be just

a client proto file. (Zhijie Shen via vinodkv)

YARN-984. Renamed the incorrectly named applicationhistoryservice.records.pb.impl

package to be applicationhistoryservice.records.impl.pb. (Devaraj K via vinodkv)

YARN-1534. Fixed failure of test TestAHSWebApp. (Shinichi Yamashita via vinodkv)

YARN-1555. Fixed test failures in applicationhistoryservice.\* (Vinod Kumar

Vavilapalli via mayank)

YARN-1594. Updated pom.xml of applicationhistoryservice sub-project according to

YARN-888. (Vinod Kumar Vavilapalli via zjshen)

YARN-1596. Fixed Javadoc warnings on branch YARN-321. (Vinod Kumar Vavilapalli

via zjshen)

YARN-1597. Fixed Findbugs warnings on branch YARN-321. (Vinod Kumar Vavilapalli

via zjshen)

YARN-1595. Made enabling history service configurable and fixed test failures on

branch YARN-321. (Vinod Kumar Vavilapalli via zjshen)

YARN-1605. Fixed formatting issues in the new module on branch YARN-321. (Vinod

Kumar Vavilapalli via zjshen)

YARN-1625. Fixed RAT warnings after YARN-321 merge. (Shinichi Yamashita via

vinodkv)

YARN-1613. Fixed the typo with the configuration name

YARN\_HISTORY\_SERVICE\_ENABLED. (Akira Ajisaka via vinodkv)

YARN-1618. Fix invalid RMApp transition from NEW to FINAL\_SAVING (kasha)

YARN-1600. RM does not startup when security is enabled without spnego

configured (Haohui Mai via jlowe)

YARN-1642. RMDTRenewer#getRMClient should use ClientRMProxy (kasha)

YARN-1632. TestApplicationMasterServices should be under

org.apache.hadoop.yarn.server.resourcemanager package (Chen He via jeagles)

YARN-1673. Fix option parsing in YARN's application CLI after it is broken

by YARN-967. (Mayank Bansal via vinodkv)

YARN-1684. Fixed history server heap size in yarn script. (Billie Rinaldi

via zjshen)

YARN-1166. Fixed app-specific and attempt-specific QueueMetrics to be

triggered by accordingly app event and attempt event.

YARN-1689. Made RMAppAttempt get killed when RMApp is at ACCEPTED. (Vinod

Kumar Vavilapalli via zjshen)

YARN-1661. Fixed DS ApplicationMaster to write the correct exit log. (Vinod

Kumar Vavilapalli via zjshen)

YARN-1672. YarnConfiguration is missing a default for

yarn.nodemanager.log.retain-seconds (Naren Koneru via kasha)

YARN-1698. Fixed default TimelineStore in code to match what is documented

in yarn-default.xml (Zhijie Shen via vinodkv)

YARN-1697. NodeManager reports negative running containers (Sandy Ryza)

YARN-1719. Fixed the root path related Jersey warnings produced in

ATSWebServices. (Billie Rinaldi via zjshen)

YARN-1692. ConcurrentModificationException in fair scheduler AppSchedulable

(Sangjin Lee via Sandy Ryza)

YARN-1578. Fixed reading incomplete application attempt and container data

in FileSystemApplicationHistoryStore. (Shinichi Yamashita via zjshen)

YARN-1417. Modified RM to generate container-tokens not at creation time, but

at allocation time so as to prevent RM from shelling out containers with

expired tokens. (Omkar Vinit Joshi and Jian He via vinodkv)

YARN-1553. Modified YARN and MR to stop using HttpConfig.isSecure() and

instead rely on the http policy framework. And also fix some bugs related

to https handling in YARN web-apps. (Haohui Mai via vinodkv)

YARN-1721. When moving app between queues in Fair Scheduler, grab lock on

FSSchedulerApp (Sandy Ryza)

YARN-1724. Race condition in Fair Scheduler when continuous scheduling is

turned on (Sandy Ryza)

YARN-1590. Fixed ResourceManager, web-app proxy and MR JobHistoryServer to

expand \_HOST properly in their kerberos principles. (Mohammad Kamrul Islam

va vinodkv)

YARN-1428. Fixed RM to write the final state of RMApp/RMAppAttempt to the

application history store in the transition to the final state. (Contributed

by Zhijie Shen)

YARN-713. Fixed ResourceManager to not crash while building tokens when DNS

issues happen transmittently. (Jian He via vinodkv)

YARN-1398. Fixed a deadlock in ResourceManager between users requesting

queue-acls and completing containers. (vinodkv)

YARN-1071. Enabled ResourceManager to recover cluster metrics

numDecommissionedNMs after restarting. (Jian He via zjshen)

YARN-1742. Fixed javadoc of configuration parameter

DEFAULT\_NM\_MIN\_HEALTHY\_DISKS\_FRACTION. (Akira Ajisaka via vinodkv)

YARN-1686. Fixed NodeManager to properly handle any errors during

re-registration after a RESYNC and thus avoid hanging. (Rohith Sharma via

vinodkv)

YARN-1734. Fixed ResourceManager to update the configurations when it

transits from standby to active mode so as to assimilate any changes that

happened while it was in standby mode. (Xuan Gong via vinodkv)

YARN-1760. TestRMAdminService assumes CapacityScheduler. (kasha)

YARN-1758. Fixed ResourceManager to not mandate the presence of site specific

configuration files and thus fix failures in downstream tests. (Xuan Gong via

vinodkv)

YARN-1748. Excluded core-site.xml from hadoop-yarn-server-tests package's jar

and thus avoid breaking downstream tests. (Sravya Tirukkovalur via vinodkv)

YARN-1729. Made TimelineWebServices deserialize the string primary- and

secondary-filters param into the JSON-compatible object. (Billie Rinaldi via

zjshen)

YARN-1766. Fixed a bug in ResourceManager to use configuration loaded from the

configuration-provider when booting up. (Xuan Gong via vinodkv)

YARN-1768. Fixed error message being too verbose when killing a non-existent

application. (Tsuyoshi OZAWA via raviprak)

YARN-1774. FS: Submitting to non-leaf queue throws NPE. (Anubhav Dhoot and

Karthik Kambatla via kasha)

YARN-1783. Fixed a bug in NodeManager's status-updater that was losing

completed container statuses when NodeManager is forced to resync by the

ResourceManager. (Jian He via vinodkv)

YARN-1787. Fixed help messages for applicationattempt and container

sub-commands in bin/yarn. (Zhijie Shen via vinodkv)

YARN-1793. Fixed ClientRMService#forceKillApplication not killing unmanaged

application. (Karthik Kambatla via jianhe)

YARN-1788. Fixed a bug in ResourceManager to set the apps-completed and

apps-killed metrics correctly for killed applications. (Varun Vasudev via

vinodkv)

YARN-1821. NPE on registerNodeManager if the request has containers for

UnmanagedAMs. (kasha)

YARN-1800. Fixed NodeManager to gracefully handle RejectedExecutionException

in the public-localizer thread-pool. (Varun Vasudev via vinodkv)

YARN-1444. Fix CapacityScheduler to deal with cases where applications

specify host/rack requests without off-switch request. (Wangda Tan via

acmurthy)

YARN-1812. Fixed ResourceManager to synchrously renew tokens after recovery

and thus recover app itself synchronously and avoid races with resyncing

NodeManagers. (Jian He via vinodkv)

YARN-1816. Fixed ResourceManager to get RMApp correctly handle

ATTEMPT\_FINISHED event at ACCEPTED state that can happen after RM restarts.

(Jian He via vinodkv)

YARN-1789. ApplicationSummary does not escape newlines in the app name

(Tsuyoshi OZAWA via jlowe)

YARN-1830. Fixed TestRMRestart#testQueueMetricsOnRMRestart failure due to

race condition when app is submitted. (Zhijie Shen via jianhe)

YARN-1685. Fixed few bugs related to handling of containers' log-URLs on

ResourceManager and history-service. (Zhijie Shen via vinodkv)

YARN-1206. Fixed AM container log to show on NM web page after application

finishes if log-aggregation is disabled. (Rohith Sharmaks via jianhe)

YARN-1591. Fixed AsyncDispatcher to handle interrupts on shutdown in a sane

manner and thus fix failure of TestResourceTrackerService. (Tsuyoshi Ozawa

via vinodkv)

YARN-1839. Fixed handling of NMTokens in ResourceManager such that containers

launched by AMs running on the same machine as the AM are correctly

propagated. (Jian He via vinodkv)

YARN-1640. Fixed manual failover of ResourceManagers to work correctly in

secure clusters. (Xuan Gong via vinodkv)

YARN-1855. Made Application-history server to be optional in MiniYARNCluster

and thus avoid the failure of TestRMFailover#testRMWebAppRedirect. (Zhijie

Shen via vinodkv)

YARN-1859. Fixed WebAppProxyServlet to correctly handle applications absent

on the ResourceManager. (Zhijie Shen via vinodkv)

YARN-1811. Fixed AMFilters in YARN to correctly accept requests from either

web-app proxy or the RMs when HA is enabled. (Robert Kanter via vinodkv)

YARN-1670. Fixed a bug in log-aggregation that can cause the writer to write

more log-data than the log-length that it records. (Mit Desai via vinodk)

YARN-1849. Fixed NPE in ResourceTrackerService#registerNodeManager for UAM

(Karthik Kambatla via jianhe )

YARN-1863. Fixed test failure in TestRMFailover after YARN-1859. (Xuan Gong

via vinodkv)

YARN-1854. Fixed test failure in TestRMHA#testStartAndTransitions. (Rohith

Sharma KS via vinodkv)

YARN-1776. Fixed DelegationToken renewal to survive RM failover. (Zhijie

Shen via jianhe)

YARN-1577. Made UnmanagedAMLauncher do launchAM after the attempt reaches

the LAUNCHED state. (Jian He via zjshen)

YARN-1785. FairScheduler treats app lookup failures as ERRORs.

(bc Wong via kasha)

YARN-1752. Fixed ApplicationMasterService to reject unregister request if

AM did not register before. (Rohith Sharma via jianhe)

YARN-1846. TestRM#testNMTokenSentForNormalContainer assumes CapacityScheduler.

(Robert Kanter via kasha)

YARN-1705. Reset cluster-metrics on transition to standby. (Rohith via kasha)

YARN-1852. Fixed RMAppAttempt to not resend AttemptFailed/AttemptKilled

events to already recovered Failed/Killed RMApps. (Rohith via jianhe)

YARN-1866. Fixed an issue with renewal of RM-delegation tokens on restart or

fail-over. (Jian He via vinodkv)

YARN-1867. Fixed a bug in ResourceManager that was causing invalid ACL checks

in the web-services after fail-over. (Vinod Kumar Vavilapalli)

YARN-1521. Mark Idempotent/AtMostOnce annotations to the APIs in

ApplicationClientProtcol, ResourceManagerAdministrationProtocol and

ResourceTrackerProtocol so that they work in HA scenario. (Xuan Gong

via jianhe)

YARN-1873. Fixed TestDistributedShell failure when the test cases are out of

order. (Mit Desai via zjshen)

YARN-1893. Mark AtMostOnce annotation to ApplicationMasterProtocol#allocate.

(Xuan Gong via jianhe)

Release 2.3.1 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.3.0 - 2014-02-18

INCOMPATIBLE CHANGES

NEW FEATURES

YARN-649. Added a new NM web-service to serve container logs in plain text

over HTTP. (Sandy Ryza via vinodkv)

YARN-1021. Yarn Scheduler Load Simulator. (ywskycn via tucu)

YARN-1010. FairScheduler: decouple container scheduling from nodemanager

heartbeats. (Wei Yan via Sandy Ryza)

YARN-1253. Changes to LinuxContainerExecutor to run containers as a single

dedicated user in non-secure mode. (rvs via tucu)

YARN-1027. Implement RMHAProtocolService (Karthik Kambatla via bikas)

YARN-1068. Add admin support for HA operations (Karthik Kambatla via

bikas)

YARN-311. RM/scheduler support for dynamic resource configuration.

(Junping Du via llu)

YARN-1392. Allow sophisticated app-to-queue placement policies in the Fair

Scheduler (Sandy Ryza)

YARN-1447. Common PB type definitions for container resizing. (Wangda Tan

via Sandy Ryza)

YARN-1448. AM-RM protocol changes to support container resizing (Wangda Tan

via Sandy Ryza)

YARN-312. Introduced ResourceManagerAdministrationProtocol changes to support

changing resources on node. (Junping Du via vinodkv)

YARN-1028. Added FailoverProxyProvider capability to ResourceManager to help

with RM failover. (Karthik Kambatla via vinodkv)

YARN-1029. Added embedded leader election in the ResourceManager. (Karthik

Kambatla via vinodkv)

YARN-1033. Expose RM active/standby state to Web UI and REST API (kasha)

IMPROVEMENTS

YARN-305. Fair scheduler logs too many "Node offered to app" messages.

(Lohit Vijayarenu via Sandy Ryza)

YARN-1258. Allow configuring the Fair Scheduler root queue (Sandy Ryza)

YARN-1288. Make Fair Scheduler ACLs more user friendly (Sandy Ryza)

YARN-1315. TestQueueACLs should also test FairScheduler (Sandy Ryza)

YARN-1335. Move duplicate code from FSSchedulerApp and FiCaSchedulerApp

into SchedulerApplication (Sandy Ryza)

YARN-1333. Support blacklisting in the Fair Scheduler (Tsuyoshi Ozawa via

Sandy Ryza)

YARN-1109. Demote NodeManager "Sending out status for container" logs to

debug (haosdent via Sandy Ryza)

YARN-1321. Changed NMTokenCache to support both singleton and an instance

usage. (Alejandro Abdelnur via vinodkv)

YARN-1388. Fair Scheduler page always displays blank fair share (Liyin Liang

via Sandy Ryza)

YARN-7. Support CPU resource for DistributedShell. (Junping Du via llu)

YARN-905. Add state filters to nodes CLI (Wei Yan via Sandy Ryza)

YARN-1098. Separate out RM services into Always On and Active (Karthik

Kambatla via bikas)

YARN-353. Add Zookeeper-based store implementation for RMStateStore.

(Bikas Saha, Jian He and Karthik Kambatla via hitesh)

YARN-819. ResourceManager and NodeManager should check for a minimum allowed

version (Robert Parker via jeagles)

YARN-425. coverage fix for yarn api (Aleksey Gorshkov via jeagles)

YARN-1199. Make NM/RM Versions Available (Mit Desai via jeagles)

YARN-1232. Configuration to support multiple RMs (Karthik Kambatla via

bikas)

YARN-465. fix coverage org.apache.hadoop.yarn.server.webproxy (Aleksey

Gorshkov and Andrey Klochkov via jlowe)

YARN-976. Document the meaning of a virtual core. (Sandy Ryza)

YARN-1182. MiniYARNCluster creates and inits the RM/NM only on start()

(Karthik Kambatla via Sandy Ryza)

HADOOP-9598. Improve code coverage of RMAdminCLI (Aleksey Gorshkov and

Andrey Klochkov via jeagles)

YARN-1306. Clean up hadoop-sls sample-conf according to YARN-1228 (Wei Yan

via Sandy Ryza)

YARN-891. Modified ResourceManager state-store to remember completed

applications so that clients can get information about them post RM-restart.

(Jian He via vinodkv)

YARN-1290. Let continuous scheduling achieve more balanced task assignment

(Wei Yan via Sandy Ryza)

YARN-786. Expose application resource usage in RM REST API (Sandy Ryza)

YARN-1323. Set HTTPS webapp address along with other RPC addresses in HAUtil

(Karthik Kambatla via Sandy Ryza)

YARN-1121. Changed ResourceManager's state-store to drain all events on

shut-down. (Jian He via vinodkv)

YARN-1387. RMWebServices should use ClientRMService for filtering

applications (Karthik Kambatla via Sandy Ryza)

YARN-1222. Make improvements in ZKRMStateStore for fencing (Karthik

Kambatla via bikas)

YARN-709. Added tests to verify validity of delegation tokens and logging of

appsummary after RM restart. (Jian He via vinodkv)

YARN-1210. Changed RM to start new app-attempts on RM restart only after

ensuring that previous AM exited or after expiry time. (Omkar Vinit Joshi via

vinodkv)

YARN-674. Fixed ResourceManager to renew DelegationTokens on submission

asynchronously to work around potential slowness in state-store. (Omkar Vinit

Joshi via vinodkv)

YARN-584. In scheduler web UIs, queues unexpand on refresh. (Harshit

Daga via Sandy Ryza)

YARN-1303. Fixed DistributedShell to not fail with multiple commands separated

by a semi-colon as shell-command. (Xuan Gong via vinodkv)

YARN-1423. Support queue placement by secondary group in the Fair Scheduler

(Ted Malaska via Sandy Ryza)

YARN-1314. Fixed DistributedShell to not fail with multiple arguments for a

shell command separated by spaces. (Xuan Gong via vinodkv)

YARN-1239. Modified ResourceManager state-store implementations to start

storing version numbers. (Jian He via vinodkv)

YARN-1241. In Fair Scheduler, maxRunningApps does not work for non-leaf

queues. (Sandy Ryza)

YARN-1318. Promoted AdminService to an Always-On service and merged it into

RMHAProtocolService. (Karthik Kambatla via vinodkv)

YARN-1332. In TestAMRMClient, replace assertTrue with assertEquals where

possible (Sebastian Wong via Sandy Ryza)

YARN-1403. Separate out configuration loading from QueueManager in the Fair

Scheduler (Sandy Ryza)

YARN-1181. Augment MiniYARNCluster to support HA mode (Karthik Kambatla)

YARN-546. Allow disabling the Fair Scheduler event log (Sandy Ryza)

YARN-807. When querying apps by queue, iterating over all apps is

inefficient and limiting (Sandy Ryza)

YARN-1378. Implemented a cleaner of old finished applications from the RM

state-store. (Jian He via vinodkv)

YARN-1481. Move internal services logic from AdminService to ResourceManager.

(vinodkv via kasha)

YARN-1491. Upgrade JUnit3 TestCase to JUnit 4 (Chen He via jeagles)

YARN-408. Change CapacityScheduler to not disable delay-scheduling by default.

(Mayank Bansal via vinodkv)

YARN-1325. Modified RM HA configuration validation to also ensure that

multiple RMs are configured. (Xuan Gong via vinodkv)

YARN-1311. Fixed app specific scheduler-events' names to be app-attempt

based. (vinodkv via jianhe)

YARN-1485. Modified RM HA configuration validation to also ensure that

service-address configuration are configured for every RM. (Xuan Gong via

vinodkv)

YARN-1435. Modified Distributed Shell to accept either the command or the

custom script. (Xuan Gong via zjshen)

YARN-1446. Changed client API to retry killing application till RM

acknowledges so as to account for RM crashes/failover. (Jian He via vinodkv)

YARN-1307. Redesign znode structure for Zookeeper based RM state-store for

better organization and scalability. (Tsuyoshi OZAWA via vinodkv)

YARN-1172. Convert SecretManagers in RM to services (Tsuyoshi OZAWA via kasha)

YARN-1523. Use StandbyException instead of RMNotYetReadyException (kasha)

YARN-1541. Changed ResourceManager to invalidate ApplicationMaster host/port

information once an AM crashes. (Jian He via vinodkv)

YARN-1482. Modified WebApplicationProxy to make it work across ResourceManager

fail-over. (Xuan Gong via vinodkv)

YARN-1568. Rename clusterid to clusterId in ActiveRMInfoProto (kasha)

YARN-1579. ActiveRMInfoProto fields should be optional (kasha)

YARN-888. Cleaned up POM files so that non-leaf modules don't include any

dependencies and thus compact the dependency list for leaf modules.

(Alejandro Abdelnur via vinodkv)

YARN-1567. In Fair Scheduler, allow empty queues to change between leaf and

parent on allocation file reload (Sandy Ryza)

YARN-1616. RMFatalEventDispatcher should log the cause of the event (kasha)

YARN-1624. QueuePlacementPolicy format is not easily readable via a JAXB

parser (Aditya Acharya via Sandy Ryza)

YARN-1623. Include queue name in RegisterApplicationMasterResponse (Sandy

Ryza)

YARN-1573. ZK store should use a private password for root-node-acls.

(kasha).

OPTIMIZATIONS

BUG FIXES

YARN-1284. LCE: Race condition leaves dangling cgroups entries for killed

containers. (Alejandro Abdelnur via Sandy Ryza)

YARN-1283. Fixed RM to give a fully-qualified proxy URL for an application

so that clients don't need to do scheme-mangling. (Omkar Vinit Joshi via

vinodkv)

YARN-879. Fixed tests w.r.t o.a.h.y.server.resourcemanager.Application.

(Junping Du via devaraj)

YARN-1265. Fair Scheduler chokes on unhealthy node reconnect (Sandy Ryza)

YARN-1044. used/min/max resources do not display info in the scheduler page

(Sangjin Lee via Sandy Ryza)

YARN-1259. In Fair Scheduler web UI, queue num pending and num active apps

switched. (Robert Kanter via Sandy Ryza)

YARN-1295. In UnixLocalWrapperScriptBuilder, using bash -c can cause Text

file busy errors (Sandy Ryza)

YARN-1185. Fixed FileSystemRMStateStore to not leave partial files that

prevent subsequent ResourceManager recovery. (Omkar Vinit Joshi via vinodkv)

YARN-1331. yarn.cmd exits with NoClassDefFoundError trying to run rmadmin or

logs. (cnauroth)

YARN-1330. Fair Scheduler: defaultQueueSchedulingPolicy does not take effect

(Sandy Ryza)

YARN-1022. Unnecessary INFO logs in AMRMClientAsync (haosdent via bikas)

YARN-1349. yarn.cmd does not support passthrough to any arbitrary class.

(cnauroth)

YARN-1357. TestContainerLaunch.testContainerEnvVariables fails on Windows.

(Chuan Liu via cnauroth)

YARN-1358. TestYarnCLI fails on Windows due to line endings. (Chuan Liu via

cnauroth)

YARN-1343. NodeManagers additions/restarts are not reported as node updates

in AllocateResponse responses to AMs. (tucu)

YARN-1381. Same relaxLocality appears twice in exception message of

AMRMClientImpl#checkLocalityRelaxationConflict() (Ted Yu via Sandy Ryza)

YARN-1407. RM Web UI and REST APIs should uniformly use

YarnApplicationState (Sandy Ryza)

YARN-1438. Ensure container diagnostics includes exception from container

launch. (stevel via acmurthy)

YARN-1138. yarn.application.classpath is set to point to $HADOOP\_CONF\_DIR

etc., which does not work on Windows. (Chuan Liu via cnauroth)

YARN-461. Fair scheduler should not accept apps with empty string queue name.

(ywskycn via tucu)

YARN-1060. Two tests in TestFairScheduler are missing @Test annotation

(Niranjan Singh via Sandy Ryza)

YARN-1188. The context of QueueMetrics becomes default when using

FairScheduler (Tsuyoshi Ozawa via Sandy Ryza)

YARN-1268. TestFairScheduler.testContinuousScheduling is flaky (Sandy Ryza)

YARN-1300. SLS tests fail because conf puts YARN properties in

fair-scheduler.xml (Ted Yu via Sandy Ryza)

YARN-1183. MiniYARNCluster shutdown takes several minutes intermittently

(Andrey Klochkov via jeagles)

YARN-1305. RMHAProtocolService#serviceInit should handle HAUtil's

IllegalArgumentException (Tsuyoshi Ozawa via bikas)

YARN-1374. Changed ResourceManager to start the preemption policy monitors

as active services. (Karthik Kambatla via vinodkv)

YARN-1395. Distributed shell application master launched with debug flag can

hang waiting for external ls process. (cnauroth)

YARN-1400. yarn.cmd uses HADOOP\_RESOURCEMANAGER\_OPTS. Should be

YARN\_RESOURCEMANAGER\_OPTS. (Raja Aluri via cnauroth)

YARN-1401. With zero sleep-delay-before-sigkill.ms, no signal is ever sent

(Gera Shegalov via Sandy Ryza)

YARN-1411. HA config shouldn't affect NodeManager RPC addresses (Karthik

Kambatla via bikas)

YARN-1419. TestFifoScheduler.testAppAttemptMetrics fails intermittently

under jdk7 (Jonathan Eagles via jlowe)

YARN-744. Race condition in ApplicationMasterService.allocate .. It might

process same allocate request twice resulting in additional containers

getting allocated. (Omkar Vinit Joshi via bikas)

YARN-1425. TestRMRestart fails because MockRM.waitForState(AttemptId) uses

current attempt instead of the attempt passed as argument (Omkar Vinit

Joshi via bikas)

YARN-1053. Diagnostic message from ContainerExitEvent is ignored in

ContainerImpl (Omkar Vinit Joshi via bikas)

YARN-1320. Fixed Distributed Shell application to respect custom log4j

properties file. (Xuan Gong via vinodkv)

YARN-1416. Fixed a few invalid transitions in RMApp, RMAppAttempt and in some

tests. (Jian He via vinodkv)

YARN-895. Changed RM state-store to not crash immediately if RM restarts while

the state-store is down. (Jian He via vinodkv)

YARN-1454. Fixed test failure issue with TestRMRestart. (Karthik Kambatla

via vinodkv)

YARN-1450. Fixed test failure in TestUnmanagedAMLauncher by removing its

dependency on distributed-shell. (Binglin Chang via vinodkv)

YARN-1405. Fixed ResourceManager to not hang when init/start fails with an

exception w.r.t state-store. (Jian He via vinodkv)

YARN-1505. Fixed Webapplication proxy server to not hardcode its bind

address. (Xuan Gong via vinodkv)

YARN-1145. Fixed a potential file-handle leak in the web interface for

displaying aggregated logs. (Rohith Sharma via vinodkv)

YARN-1451. TestResourceManager relies on the scheduler assigning multiple

containers in a single node update. (Sandy Ryza via kasha)

YARN-1527. Fix yarn rmadmin command to print the correct usage info.

(Akira AJISAKA via jianhe)

YARN-1522. Fixed a race condition in the test TestApplicationCleanup that was

causing it to randomly fail. (Liyin Liang via vinodkv)

YARN-1549. Fixed a bug in ResourceManager's ApplicationMasterService that

was causing unamanged AMs to not finish correctly. (haosdent via vinodkv)

YARN-1559. Race between ServerRMProxy and ClientRMProxy setting

RMProxy#INSTANCE. (kasha and vinodkv via kasha)

YARN-1560. Fixed TestYarnClient#testAMMRTokens failure with null AMRM token.

(Ted Yu via jianhe)

YARN-1409. NonAggregatingLogHandler can throw RejectedExecutionException

(Tsuyoshi OZAWA via jlowe)

YARN-1293. Fixed TestContainerLaunch#testInvalidEnvSyntaxDiagnostics failure

caused by non-English system locale. (Tsuyoshi OZAWA via jianhe)

YARN-1574. RMDispatcher should be reset on transition to standby. (Xuan Gong

via kasha)

YARN-1598. HA-related rmadmin commands don't work on a secure cluster (kasha)

YARN-1603. Remove two \*.orig files which were unexpectedly committed.

(Zhijie Shen via junping\_du)

YARN-1601. 3rd party JARs are missing from hadoop-dist output. (tucu)

YARN-1351. Invalid string format in Fair Scheduler log warn message

(Konstantin Weitz via Sandy Ryza)

YARN-1608. LinuxContainerExecutor has a few DEBUG messages at INFO level

(kasha)

YARN-1606. Fix the default value of yarn.resourcemanager.zk-timeout-ms

in yarn-default.xml (kasha)

YARN-1607. TestRM relies on the scheduler assigning multiple containers in

a single node update (Sandy Ryza)

YARN-1575. Public localizer crashes with "Localized unkown resource"

(jlowe)

YARN-1629. IndexOutOfBoundsException in MaxRunningAppsEnforcer (Sandy Ryza)

YARN-1628. Fixed the test failure in TestContainerManagerSecurity. (Vinod

Kumar Vavilapalli via zjshen)

Release 2.2.0 - 2013-10-13

INCOMPATIBLE CHANGES

YARN-1229. Define constraints on Auxiliary Service names. Change

ShuffleHandler service name from mapreduce.shuffle to

mapreduce\_shuffle (Xuan Gong via sseth)

NEW FEATURES

IMPROVEMENTS

YARN-1246. Added application finish-status to ApplicationSummary for the sake

of testing given ApplicationHistoryServer is not yet ready. (Arpit Gupta via

vinodkv)

YARN-899. Added back queue level administrator-acls so that there is no

regression w.r.t 1.x. (Xuan Gong via vinodkv)

YARN-1228. Clean up Fair Scheduler configuration loading. (Sandy Ryza)

YARN-1213. Restore config to ban submitting to undeclared pools in the

Fair Scheduler. (Sandy Ryza)

YARN-1277. Added a policy based configuration for http/https in common

HttpServer and using the same in YARN - related to per project https config

support via HADOOP-10022. (Suresh Srinivas and Omkar Vinit Joshi via vinodkv)

OPTIMIZATIONS

BUG FIXES

YARN-1128. FifoPolicy.computeShares throws NPE on empty list of Schedulables

(Karthik Kambatla via Sandy Ryza)

YARN-1214. Register ClientToken MasterKey in SecretManager after it is

saved (Jian He via bikas)

YARN-49. Improve distributed shell application to work on a secure cluster.

(Vinod Kumar Vavilapalli via hitesh)

YARN-1157. Fixed ResourceManager UI to behave correctly when apps like

distributed-shell do not set tracking urls. (Xuan Gong via vinodkv)

YARN-1221. With Fair Scheduler, reserved MB reported in RM web UI increases

indefinitely (Siqi Li via Sandy Ryza)

YARN-1247. test-container-executor has gotten out of sync with the changes to

container-executor. (rvs via tucu)

YARN-1070. Fixed race conditions in NodeManager during container-kill.

(Zhijie Shen via vinodkv)

YARN-1215. Yarn URL should include userinfo. (Chuan Liu via cnauroth)

YARN-1262. TestApplicationCleanup relies on all containers assigned in a

single heartbeat (Karthik Kambatla via Sandy Ryza)

YARN-1260. Added webapp.http.address to yarn-default.xml so that default

install with https enabled doesn't have broken link on NM UI. (Omkar Vinit

Joshi via vinodkv)

YARN-1141. Updating resource requests should be decoupled with updating

blacklist (Zhijie Shen via bikas)

YARN-876. Node resource is added twice when node comes back from unhealthy

to healthy. (Peng Zhang via Sandy Ryza)

YARN-890. Ensure CapacityScheduler doesn't round-up metric for available

resources. (Xuan Gong & Hitesh Shah via acmurthy)

YARN-621. Changed YARN web app to not add paths that can cause duplicate

additions of authenticated filters there by causing kerberos replay errors.

(Omkar Vinit Joshi via vinodkv)

YARN-1236. FairScheduler setting queue name in RMApp is not working.

(Sandy Ryza)

YARN-1256. NM silently ignores non-existent service in

StartContainerRequest (Xuan Gong via bikas)

YARN-1149. NM throws InvalidStateTransitonException: Invalid event:

APPLICATION\_LOG\_HANDLING\_FINISHED at RUNNING (Xuan Gong via hitesh)

YARN-1271. "Text file busy" errors launching containers again

(Sandy Ryza)

YARN-1131. $yarn logs command should return an appropriate error message if

YARN application is still running. (Siddharth Seth via hitesh)

YARN-1219. FSDownload changes file suffix making FileUtil.unTar() throw

exception. (Shanyu Zhao via cnauroth)

YARN-1251. TestDistributedShell#TestDSShell failed with timeout. (Xuan Gong

via hitesh)

YARN-1167. Fixed Distributed Shell to not incorrectly show empty hostname

on RM UI. (Xuan Gong via vinodkv)

YARN-1254. Fixed NodeManager to not pollute container's credentials. (Omkar

Vinit Joshi via vinodkv)

YARN-1273. Fixed Distributed-shell to account for containers that failed

to start. (Hitesh Shah via vinodkv)

YARN-1032. Fixed NPE in RackResolver. (Lohit Vijayarenu via acmurthy)

YARN-1090. Fixed CS UI to better reflect applications as non-schedulable

and not as pending. (Jian He via acmurthy)

YARN-1274. Fixed NodeManager's LinuxContainerExecutor to create user, app-dir

and log-dirs correctly even when there are no resources to localize for the

container. (Siddharth Seth via vinodkv)

YARN-1278. Fixed NodeManager to not delete local resources for apps on resync

command from RM - a bug caused by YARN-1149. (Hitesh Shah via vinodkv)

YARN-1463. Tests should avoid starting http-server where possible or creates

spnego keytab/principals (vinodkv via kasha)

Release 2.1.1-beta - 2013-09-23

INCOMPATIBLE CHANGES

YARN-707. Added user information also in the YARN ClientToken so that AMs

can implement authorization based on incoming users. (Jason Lowe via vinodkv)

YARN-1170. YARN & MapReduce proto definitions fixed to specify protobuf

package as hadoop.yarn and hadoop.mapreduce respectively. (Binglin Chang

via acmurthy)

NEW FEATURES

IMPROVEMENTS

YARN-589. Expose a REST API for monitoring the fair scheduler (Sandy Ryza).

YARN-1074. Cleaned up YARN CLI application list to only display running

applications by default. (Xuan Gong via vinodkv)

YARN-1093. Corrections to Fair Scheduler documentation (Wing Yew Poon via

Sandy Ryza)

YARN-942. In Fair Scheduler documentation, inconsistency on which

properties have prefix (Akira Ajisaka via Sandy Ryza)

YARN-1083. Changed ResourceManager to fail when the expiry interval is less

than the configured node-heartbeat interval. (Zhijie Shen via vinodkv)

YARN-1081. Made a trivial change to YARN node CLI header to avoid potential

confusion. (Akira AJISAKA via vinodkv)

YARN-1034. Remove "experimental" in the Fair Scheduler documentation.

(Karthik Kambatla via Sandy Ryza)

YARN-1080. Improved help message for "yarn logs" command. (Xuan Gong via

vinodkv)

YARN-771. AMRMClient support for resource blacklisting (Junping Du via

bikas)

YARN-1117. Improved help messages for "yarn application" and "yarn node"

commands. (Xuan Gong via vinodkv)

YARN-1120. Made ApplicationConstants.Environment.USER definition OS neutral

as the corresponding value is now set correctly end-to-end. (Chuan Liu via

vinodkv)

YARN-1124. Modified YARN CLI application list to display new and submitted

applications together with running apps by default, following up YARN-1074.

(Xuan Gong via vinodkv)

YARN-1065. NM should provide AuxillaryService data to the container (Xuan

Gong via bikas)

YARN-758. Augment MockNM to use multiple cores (Karthik Kambatla via

Sandy Ryza)

YARN-696. Changed RMWebservice apps call to take in multiple application

states. (Trevor Lorimer via vinodkv)

YARN-910. Augmented auxiliary services to listen for container starts and

completions in addition to application events. (Alejandro Abdelnur via

vinodkv)

YARN-1137. Add support whitelist for system users to Yarn

container-executor.c. (rvs via tucu)

YARN-1001. Added a web-service to get statistics about per application-type

per state for consumption by downstream projects. (Zhijie Shen via vinodkv)

YARN-1203. Changed YARN web-app proxy to handle http and https URLs from

AM registration and finish correctly. (Omkar Vinit Joshi via vinodkv)

YARN-1204. Added separate configuration properties for https for RM and NM

without which servers enabled with https will also start on http ports.

(Omkar Vinit Joshi via vinodkv)

OPTIMIZATIONS

BUG FIXES

YARN-948. Changed ResourceManager to validate the release container list

before actually releasing them. (Omkar Vinit Joshi via vinodkv)

YARN-966. Fixed ContainerLaunch to not fail quietly when there are no

localized resources due to some other failure. (Zhijie Shen via vinodkv)

YARN-502. Fixed a state machine issue with RMNode inside ResourceManager

which was crashing scheduler. (Mayank Bansal via vinodkv)

YARN-573. Shared data structures in Public Localizer and Private Localizer

are not Thread safe. (Omkar Vinit Joshi via jlowe)

YARN-903. Changed ContainerManager to suppress unnecessary warnings when

stopping already stopped containers. (Omkar Vinit Joshi via vinodkv)

YARN-906. Fixed a bug in NodeManager where cancelling ContainerLaunch at

KILLING state causes that the container to hang. (Zhijie Shen via vinodkv)

YARN-994. HeartBeat thread in AMRMClientAsync does not handle runtime

exception correctly (Xuan Gong via bikas)

YARN-337. RM handles killed application tracking URL poorly (jlowe)

YARN-107. Fixed ResourceManager and clients to better handle

forceKillApplication on non-running and finished applications. (Xuan Gong

via vinodkv)

YARN-643. Fixed ResourceManager to remove all tokens consistently on app

finish. (Xuan Gong via vinodkv)

YARN-1006. Fixed broken rendering in the Nodes list web page on the RM web

UI. (Xuan Gong via vinodkv)

YARN-881. Priority#compareTo method seems to be wrong. (Jian He via bikas)

YARN-1082. Create base directories on HDFS after RM login to ensure RM

recovery doesn't fail in secure mode. (vinodkv via acmurthy)

YARN-1085. Modified YARN and MR2 web-apps to do HTTP authentication in

secure setup with kerberos. (Omkar Vinit Joshi via vinodkv)

YARN-1094. Fixed a blocker with RM restart code because of which RM crashes

when try to recover an existing app. (vinodkv)

YARN-1008. MiniYARNCluster with multiple nodemanagers, all nodes have same

key for allocations. (tucu)

YARN-981. Fixed YARN webapp so that /logs servlet works like before. (Jian He

via vinodkv)

YARN-602. Fixed NodeManager to not let users override some mandatory

environmental variables. (Kenji Kikushima via vinodkv)

YARN-1101. Active nodes can be decremented below 0 (Robert Parker

via tgraves)

YARN-1077. Fixed TestContainerLaunch test failure on Windows. (Chuan Liu via

vinodkv)

YARN-957. Fixed a bug in CapacityScheduler because of which requests that

need more than a node's total capability were incorrectly allocated on that

node causing apps to hang. (Omkar Vinit Joshi via vinodkv)

YARN-1107. Fixed a bug in ResourceManager because of which RM in secure mode

fails to restart. (Omkar Vinit Joshi via vinodkv)

YARN-1049. ContainerExistStatus should define a status for preempted

containers. (tucu)

YARN-1144. Unmanaged AMs registering a tracking URI should not be

proxy-fied. (tucu)

YARN-1152. Fixed a bug in ResourceManager that was causing clients to get

invalid client token key errors when an appliation is about to finish.

(Jason Lowe via vinodkv)

YARN-292. Fixed FifoScheduler and FairScheduler to make their applications

data structures thread safe to avoid RM crashing with

ArrayIndexOutOfBoundsException. (Zhijie Shen via vinodkv)

YARN-1025. ResourceManager and NodeManager do not load native libraries on

Windows. (cnauroth)

YARN-1176. RM web services ClusterMetricsInfo total nodes doesn't include

unhealthy nodes (Jonathan Eagles via tgraves)

YARN-1078. TestNodeManagerResync, TestNodeManagerShutdown, and

TestNodeStatusUpdater fail on Windows. (Chuan Liu via cnauroth)

YARN-1194. TestContainerLogsPage fails with native builds (Roman Shaposhnik

via jlowe)

YARN-1116. Populate AMRMTokens back to AMRMTokenSecretManager after RM

restarts (Jian He via bikas)

YARN-1189. NMTokenSecretManagerInNM is not being told when applications

have finished (Omkar Vinit Joshi via jlowe)

YARN-540. Race condition causing RM to potentially relaunch already

unregistered AMs on RM restart (Jian He via bikas)

YARN-1184. ClassCastException during preemption enforcement. (cdouglas)

Release 2.1.0-beta - 2013-08-22

INCOMPATIBLE CHANGES

YARN-396. Rationalize AllocateResponse in RM Scheduler API. (Zhijie Shen

via hitesh)

YARN-439. Flatten NodeHeartbeatResponse. (Xuan Gong via sseth)

YARN-440. Flatten RegisterNodeManagerResponse. (Xuan Gong via sseth)

YARN-536. Removed the unused objects ContainerStatus and ContainerStatus from

Container which also don't belong to the container. (Xuan Gong via vinodkv)

YARN-486. Changed NM's startContainer API to accept Container record given by

RM as a direct parameter instead of as part of the ContainerLaunchContext

record. (Xuan Gong via vinodkv)

YARN-444. Moved special container exit codes from YarnConfiguration to API

where they belong. (Sandy Ryza via vinodkv)

YARN-441. Removed unused utility methods for collections from two API

records. (Xuan Gong via vinodkv)

YARN-561. Modified NodeManager to set key information into the environment

of every container that it launches. (Xuan Gong via vinodkv)

YARN-579. Stop setting the Application Token in the AppMaster env, in

favour of the copy present in the container token field.

(Vinod Kumar Vavilapalli via sseth)

YARN-629. Make YarnRemoteException not be rooted at IOException. (Xuan Gong

via vinodkv)

YARN-633. Changed RMAdminProtocol api to throw IOException and

YarnRemoteException. (Xuan Gong via vinodkv)

YARN-632. Changed ContainerManager api to throw IOException and

YarnRemoteException. (Xuan Gong via vinodkv)

YARN-631. Changed ClientRMProtocol api to throw IOException and

YarnRemoteException. (Xuan Gong via vinodkv)

YARN-630. Changed AMRMProtocol api to throw IOException and

YarnRemoteException. (Xuan Gong via vinodkv)

YARN-615. Rename ContainerLaunchContext.containerTokens to tokens.

(Vinod Kumar Vavilapalli via sseth)

YARN-571. Remove user from ContainerLaunchContext. (Omkar Vinit Joshi via

vinodkv)

YARN-716. Making ApplicationID immutable. (Siddharth Seth via vinodkv)

YARN-684. ContainerManager.startContainer should use

ContainerTokenIdentifier instead of the entire Container.

(Vinod Kumar Vavilapalli via sseth)

YARN-735. Make ApplicationAttemptId, ContaienrId and NodeId immutable.

(Jian He via sseth)

YARN-749. Rename ResourceRequest.(get,set)HostName to

ResourceRequest.(get,set)ResourceName. (acmurthy)

YARN-720. container-log4j.properties should not refer to mapreduce

property names. (Zhijie Shen via sseth)

YARN-748. Moved BuilderUtils from yarn-common to yarn-server-common for

eventual retirement. (Jian He via vinodkv)

YARN-635. Renamed YarnRemoteException to YarnException. (Siddharth Seth via

vinodkv)

YARN-755. Renamed AllocateResponse.reboot to AllocateResponse.resync. (Bikas

Saha via vinodkv)

YARN-753. Added individual factory methods for all api protocol records and

converted the records to be abstract classes. (Jian He via vinodkv)

YARN-724. Moved ProtoBase from api.records to api.records.impl.pb. (Jian He

via vinodkv)

YARN-759. Create Command enum in AllocateResponse (bikas)

YARN-777. Removed unreferenced objects from .proto files. (Jian He via

vinodkv)

YARN-642. Removed health parameter from ResourceManager /nodes web-service

and cleaned the behaviour of the status parameter. (Sandy Ryza vid vinodkv)

YARN-530. Defined Service model strictly, implemented AbstractService for

robust subclassing and migrated yarn-common services. (Steve Loughran via

vinodkv)

YARN-746. Renamed Service.register() and Service.unregister() to

registerServiceListener() & unregisterServiceListener() respectively.

(Steve Loughran via vinodkv)

YARN-792. Moved NodeHealthStatus from yarn.api.record to

yarn.server.api.record. (Jian He via vinodkv)

YARN-806. Moved ContainerExitStatus from yarn.api to yarn.api.records. (Jian

He via vinodkv)

YARN-821. Renamed setFinishApplicationStatus to setFinalApplicationStatus in

FinishApplicationMasterRequest for consistency. (Jian He via vinodkv)

YARN-787. Removed minimum resource from RegisterApplicationMasterResponse.

(tucu via acmurthy)

YARN-829. Renamed RMTokenSelector to be RMDelegationTokenSelector. (Zhijie

Shen via vinodkv)

YARN-828. Removed the unsed YarnVersionAnnotation. (Zhijie Shen via vinodkv)

YARN-823. Moved RMAdmin from yarn.client to yarn.client.cli and renamed it to

be RMAdminCLI. (Jian He via vinodkv)

YARN-387. Renamed YARN protocols for consistency.

ClientRMProtocol -> ApplicationClientProtocol

AMRMProtocol -> ApplicationMasterProtocol

ContainerManager -> ContainerManagementProtocol

(vinodkv via acmurthy)

YARN-831. Removed minimum resource from GetNewApplicationResponse as a

follow-up to YARN-787. (Jian He via acmurthy)

YARN-824. Added static factory methods to hadoop-yarn-client interfaces.

(Jian He via acmurthy)

YARN-826. Moved Clock and SystemClock into yarn.util package. (Zhijie Shen

via vinodkv)

YARN-837. Moved yarn.ClusterInfo into MapReduce project as it doesn't belong

to YARN. (Zhijie Shen via vinodkv)

YARN-822. Renamed ApplicationToken to be AMRMToken, and similarly the

corresponding TokenSelector and SecretManager. (Omkar Vinit Joshi via vinodkv)

YARN-610. ClientToken is no longer set in the environment of the Containers.

(Omkar Vinit Joshi via vinodkv)

YARN-834. Fixed annotations for yarn-client module, reorganized packages and

clearly differentiated \*Async apis. (Arun C Murthy and Zhijie Shen via

vinodkv)

YARN-840. Moved ProtoUtils to yarn.api.records.pb.impl. (Jian He via

acmurthy)

YARN-841. Move Auxiliary service to yarn-api, annotate and document it.

(vinodkv)

YARN-850. Rename getClusterAvailableResources to getAvailableResources in

AMRMClients (Jian He via bikas)

YARN-694. Starting to use NMTokens to authenticate all communication with

NodeManagers. (Omkar Vinit Joshi via vinodkv)

YARN-553. Replaced YarnClient.getNewApplication with

YarnClient.createApplication which provides a directly usable

ApplicationSubmissionContext to simplify the api. (Karthik Kambatla via

acmurthy)

YARN-851. Share NMTokens using NMTokenCache (api-based) between AMRMClient

and NMClient instead of memory based approach which is used currently. (Omkar

Vinit Joshi via vinodkv)

YARN-869. Move ResourceManagerAdministrationProtocol out of main YARN api.

(vinodkv via acmurthy)

YARN-791. Changed RM APIs and web-services related to nodes to ensure that

both are consistent with each other. (Sandy Ryza via vinodkv)

YARN-727. ClientRMProtocol.getAllApplications should accept ApplicationType as

a parameter. (Xuan Gong via hitesh)

YARN-701. Use application tokens irrespective of secure or non-secure

mode. (vinodkv via acmurthy)

YARN-918. Remove ApplicationAttemptId from

RegisterApplicationMasterRequestProto. (vinodkv via acmurthy)

YARN-926. Modified ContainerManagerProtcol APIs to take in requests for

multiple containers. (Jian He via vinodkv)

NEW FEATURES

YARN-482. FS: Extend SchedulingMode to intermediate queues.

(kkambatl via tucu)

YARN-45. Add protocol for schedulers to request containers back from

ApplicationMasters. (Carlo Curino, cdouglas)

YARN-563. Add the concept of an application-type for each application.

(Mayank Bansal via vinodkv)

HADOOP-8562. Enhancements to support Hadoop on Windows Server and Windows

Azure environments. (See breakdown of tasks below for subtasks and

contributors)

YARN-422. Add a NM Client library to help application-writers. (Zhijie Shen

via vinodkv)

YARN-392. Make it possible to specify hard locality constraints in resource

requests. (sandyr via tucu)

YARN-326. Add multi-resource scheduling to the fair scheduler.

(sandyr via tucu)

YARN-398. Make it possible to specify hard locality constraints in resource

requests for CapacityScheduler. (acmurthy)

YARN-781. Exposing LOGDIR in all containers' environment which should be used

by containers for logging purposes. (Jian He via vinodkv)

IMPROVEMENTS

YARN-347. Node CLI should show CPU info besides memory in node status.

(Junping Du via llu)

YARN-365. Change NM heartbeat handling to not generate a scheduler event

on each heartbeat. (Xuan Gong via sseth)

YARN-380. Fix yarn node -status output to be better readable. (Omkar Vinit

Joshi via vinodkv)

YARN-410. Fixed RM UI so that the new lines diagnostics for a failed app on

the per-application page are translated to html line breaks. (Omkar Vinit

Joshi via vinodkv)

YARN-198. Added a link to RM pages from the NodeManager web app. (Jian He

via vinodkv)

YARN-237. Refreshing the RM page forgets how many rows I had in my

Datatables (jian he via bobby)

YARN-481. Add AM Host and RPC Port to ApplicationCLI Status Output

(Chris Riccomini via bikas)

YARN-297. Improve hashCode implementations for PB records. (Xuan Gong via

hitesh)

YARN-417. Create AMRMClient wrapper that provides asynchronous callbacks.

(Sandy Ryza via bikas)

YARN-497. Yarn unmanaged-am launcher jar does not define a main class in

its manifest (Hitesh Shah via bikas)

YARN-469. Make scheduling mode in FS pluggable. (kkambatl via tucu)

YARN-450. Define value for \* in the scheduling protocol (Zhijie Shen via

bikas)

YARN-475. Remove a unused constant in the public API -

ApplicationConstants.AM\_APP\_ATTEMPT\_ID\_ENV. (Hitesh Shah via vinodkv)

YARN-309. Changed NodeManager to obtain heart-beat interval from the

ResourceManager. (Xuan Gong via vinodkv)

YARN-447. Move ApplicationComparator in CapacityScheduler to use comparator

in ApplicationId. (Nemon Lou via vinodkv)

YARN-381. Improve fair scheduler docs. (Sandy Ryza via tomwhite)

YARN-458. YARN daemon addresses must be placed in many different configs.

(sandyr via tucu)

YARN-193. Scheduler.normalizeRequest does not account for allocation

requests that exceed maximumAllocation limits (Zhijie Shen via bikas)

YARN-479. NM retry behavior for connection to RM should be similar for

lost heartbeats (Jian He via bikas)

YARN-495. Changed NM reboot behaviour to be a simple resync - kill all

containers and re-register with RM. (Jian He via vinodkv)

YARN-514. Delayed store operations should not result in RM unavailability

for app submission (Zhijie Shen via bikas)

YARN-586. Fixed a typo in ApplicationSubmissionContext#setApplicationId.

(Zhijie Shen via vinodkv)

YARN-542. Changed the default global AM max-attempts value to be not one.

(Zhijie Shen via vinodkv)

YARN-583. Moved application level local resources to be localized under the

filecache sub-directory under application directory. (Omkar Vinit Joshi via

vinodkv)

YARN-581. Added a test to verify that app delegation tokens are restored

after RM restart. (Jian He via vinodkv)

YARN-577. Add application-progress also to ApplicationReport. (Hitesh Shah

via vinodkv)

YARN-595. Refactor fair scheduler to use common Resources. (Sandy Ryza

via tomwhite)

YARN-562. Modified NM to reject any containers allocated by a previous

ResourceManager. (Jian He via vinodkv)

YARN-591. Moved RM recovery related records out of public API as they do not

belong there. (vinodkv)

YARN-599. Refactoring submitApplication in ClientRMService and RMAppManager

to separate out various validation checks depending on whether they rely on

RM configuration or not. (Zhijie Shen via vinodkv)

YARN-618. Modified RM\_INVALID\_IDENTIFIER to be -1 instead of zero. (Jian He

via vinodkv)

YARN-625. Move the utility method unwrapAndThrowException from

YarnRemoteExceptionPBImpl to RPCUtil. (Siddharth Seth via vinodkv)

YARN-645. Moved RMDelegationTokenSecretManager from yarn-server-common to

yarn-server-resourcemanager where it really belongs. (Jian He via vinodkv)

YARN-651. Changed PBClientImpls of ContainerManager and RMAdmin to throw

IOExceptions also. (Xuan Gong via vinodkv)

YARN-582. Changed ResourceManager to recover Application token and client

tokens for app attempt so that RM can be restarted while preserving current

applications. (Jian He via vinodkv)

YARN-568. Add support for work preserving preemption to the FairScheduler.

(Carlo Curino and Sandy Ryza via cdouglas)

YARN-598. Add virtual cores to queue metrics. (sandyr via tucu)

YARN-634. Modified YarnRemoteException to be not backed by PB and introduced

a separate SerializedException record. (Siddharth Seth via vinodkv)

YARN-663. Changed ResourceTracker API and LocalizationProtocol API to throw

YarnRemoteException and IOException. (Xuan Gong via vinodkv)

YARN-590. Added an optional mesage to be returned by ResourceMaanger when RM

asks an RM to shutdown/resync etc so that NMs can log this message locally

for better debuggability. (Mayank Bansal via vinodkv)

YARN-617. Made ContainerTokens to be used for validation at NodeManager

also in unsecure mode to prevent AMs from faking resource requirements in

unsecure mode. (Omkar Vinit Joshi via vinodkv)

YARN-708. Moved RecordFactory classes to hadoop-yarn-api, and put some

miscellaneous fixes to the interfaces. (Siddharth Seth via vinodkv)

YARN-711. Copied BuilderUtil methods in individual API records as

BuilderUtils is going to be dismantled. (Jian He via vinodkv)

YARN-714. Added NMTokens to be sent to AMs as part of heart-beat response.

(Omkar Vinit Joshi via vinodkv)

YARN-638. Modified ResourceManager to restore RMDelegationTokens after

restarting. (Jian He via vinodkv)

YARN-660. Improve AMRMClient with matching requests (bikas)

YARN-717. Put object creation factories for Token in the class itself and

remove useless derivations for specific tokens. (Jian He via vinodkv)

YARN-756. Move Preemption\* records to yarn.api where they really belong.

(Jian He via vinodkv)

YARN-750. Allow for black-listing resources in YARN API and Impl in CS

(acmurthy via bikas)

YARN-877. Support resource blacklisting for FifoScheduler.

(Junping Du via llu)

YARN-686. Flatten NodeReport. (sandyr via tucu)

YARN-737. Throw some specific exceptions directly instead of wrapping them

in YarnException. (Jian He via sseth)

YARN-731. RPCUtil.unwrapAndThrowException should unwrap remote

RuntimeExceptions. (Zhijie Shen via sseth)

YARN-600. Hook up cgroups CPU settings to the number of virtual cores

allocated. (sandyr via tucu)

YARN-648. FS: Add documentation for pluggable policy. (kkambatl via tucu)

YARN-773. Moved YarnRuntimeException from package api.yarn to

api.yarn.exceptions. (Jian He via vinodkv)

YARN-692. Creating NMToken master key on RM and sharing it with NM as a part

of RM-NM heartbeat. (Omkar Vinit Joshi via vinodkv)

YARN-782. vcores-pcores ratio functions differently from vmem-pmem ratio in

misleading way. (sandyr via tucu)

YARN-803. factor out scheduler config validation from the ResourceManager

to each scheduler implementation. (tucu)

YARN-789. Enable zero capabilities resource requests in fair scheduler.

(tucu)

YARN-639. Modified Distributed Shell application to start using the new

NMClient library. (Zhijie Shen via vinodkv)

YARN-693. Modified RM to send NMTokens on allocate call so that AMs can then

use them for authentication with NMs. (Omkar Vinit Joshi via vinodkv)

YARN-752. In AMRMClient, automatically add corresponding rack requests for

requested nodes. (sandyr via tucu)

YARN-825. Fixed javadoc and annotations for yarn-common module. (vinodkv)

YARN-833. Moved Graph and VisualizeStateMachine into yarn.state package.

(Zhijie Shen via vinodkv)

YARN-805. Fix javadoc and annotations on classes in the yarn-api

package. (Jian He via sseth)

YARN-846. Move pb Impl classes from yarn-api to yarn-common. (Jian He via

vinodkv)

YARN-827. Need to make Resource arithmetic methods accessible (Jian He via

bikas)

YARN-866. Add test for class ResourceWeights. (ywskycn via tucu)

YARN-736. Add a multi-resource fair sharing metric. (sandyr via tucu)

YARN-883. Expose Fair Scheduler-specific queue metrics. (sandyr via tucu)

YARN-569. Add support for requesting and enforcing preemption requests via

a capacity monitor. (Carlo Curino, cdouglas)

YARN-521. Augment AM - RM client module to be able to request containers

only at specific locations (Sandy Ryza via bikas)

YARN-513. Create common proxy client for communicating with RM. (Xuan Gong

& Jian He via bikas)

YARN-927. Change ContainerRequest to not have more than 1 container count

and remove StoreContainerRequest (bikas)

YARN-922. Change FileSystemRMStateStore to use directories (Jian He via

bikas)

YARN-865. RM webservices can't query based on application Types. (Xuan Gong

via hitesh)

YARN-912. Move client facing exceptions to yarn-api module. (Mayank Bansal

via vinodkv)

YARN-84. Use Builder to build RPC server. (Brandon Li via szetszwo)

YARN-1046. Disable mem monitoring by default in MiniYARNCluster. (Karthik

Kambatla via Sandy Ryza)

YARN-1045. Improve toString implementation for PBImpls. (Jian He via sseth)

OPTIMIZATIONS

YARN-512. Log aggregation root directory check is more expensive than it

needs to be. (Maysam Yabandeh via jlowe)

YARN-719. Move RMIdentifier from Container to ContainerTokenIdentifier.

(Vinod Kumar Vavilapalli via sseth)

BUG FIXES

YARN-383. AMRMClientImpl should handle null rmClient in stop()

(Hitesh Shah via sseth)

YARN-385. Add missing fields - location and #containers to

ResourceRequestPBImpl's toString(). (Sandy Ryza via sseth)

YARN-377. Use the new StringUtils methods added by HADOOP-9252 and fix

TestContainersMonitor. (Chris Nauroth via szetszwo)

YARN-391. Formatting fixes for LCEResourceHandler classes.

(Steve Loughran via sseth)

YARN-390. ApplicationCLI and NodeCLI hard-coded platform-specific line

separator causes test failures on Windows. (Chris Nauroth via suresh)

YARN-406. Fix TestRackResolver to function in networks where "host1"

resolves to a valid host. (Hitesh Shah via sseth)

YARN-376. Fixes a bug which would prevent the NM knowing about completed

containers and applications. (Jason Lowe via sseth)

YARN-196. Nodemanager should be more robust in handling connection failure

to ResourceManager when a cluster is started (Xuan Gong via hitesh)

YARN-485. TestProcfsProcessTree#testProcessTree() doesn't wait long enough

for the process to die. (kkambatl via tucu)

YARN-71. Fix the NodeManager to clean up local-dirs on restart.

(Xuan Gong via sseth)

YARN-378. Fix RM to make the AM max attempts/retries to be configurable

per application by clients. (Zhijie Shen via vinodkv)

YARN-498. Unmanaged AM launcher does not set various constants in env for

an AM, also does not handle failed AMs properly. (Hitesh Shah via bikas)

YARN-496. Fair scheduler configs are refreshed inconsistently in

reinitialize. (Sandy Ryza via tomwhite)

YARN-474. Fix CapacityScheduler to trigger application-activation when

am-resource-percent configuration is refreshed. (Zhijie Shen via vinodkv)

YARN-209. Fix CapacityScheduler to trigger application-activation when

the cluster capacity changes. (Zhijie Shen via vinodkv)

YARN-24. Nodemanager fails to start if log aggregation enabled and

namenode unavailable. (sandyr via tucu)

YARN-515. Node Manager not getting the master key. (Robert Joseph Evans

via jlowe)

YARN-382. SchedulerUtils improve way normalizeRequest sets the resource

capabilities. (Zhijie Shen via bikas)

YARN-467. Modify public distributed cache to localize files such that no

local directory hits unix file count limits and thus prevent job failures.

(Omkar Vinit Joshi via vinodkv)

YARN-101. Fix NodeManager heartbeat processing to not lose track of completed

containers in case of dropped heartbeats. (Xuan Gong via vinodkv)

YARN-538. RM address DNS lookup can cause unnecessary slowness on every JHS

page load. (sandyr via tucu)

YARN-532. Change RMAdmin and Localization client protocol PB implementations

to implement closeable so that they can be stopped when needed via

RPC.stopProxy(). (Siddharth Seth via vinodkv)

YARN-99. Modify private distributed cache to localize files such that no

local directory hits unix file count limits and thus prevent job failures.

(Omkar Vinit Joshi via vinodkv)

YARN-112. Fixed a race condition during localization that fails containers.

(Omkar Vinit Joshi via vinodkv)

YARN-534. Change RM restart recovery to also account for AM max-attempts

configuration after the restart. (Jian He via vinodkv)

YARN-539. Addressed memory leak of LocalResource objects NM when a resource

localization fails. (Omkar Vinit Joshi via vinodkv)

YARN-319. Submitting a job to a fair scheduler queue for which the user

does not have permission causes the client to wait forever.

(shenhong via tomwhite)

YARN-412. Fixed FifoScheduler to check hostname of a NodeManager rather

than its host:port during scheduling which caused incorrect locality for

containers. (Roger Hoover via acmurthy)

YARN-500. Fixed YARN webapps to not roll-over ports when explicitly asked

to use non-ephemeral ports. (Kenji Kikushima via vinodkv)

YARN-518. Fair Scheduler's document link could be added to the hadoop 2.x

main doc page. (sandyr via tucu)

YARN-476. ProcfsBasedProcessTree info message confuses users.

(sandyr via tucu)

YARN-585. Fix failure in TestFairScheduler#testNotAllowSubmitApplication

caused by YARN-514. (Zhijie Shen via vinodkv)

YARN-547. Fixed race conditions in public and private resource localization

which used to cause duplicate downloads. (Omkar Vinit Joshi via vinodkv)

YARN-594. Update test and add comments in YARN-534 (Jian He via bikas)

YARN-549. YarnClient.submitApplication should wait for application to be

accepted by the RM (Zhijie Shen via bikas)

YARN-605. Fix failing unit test in TestNMWebServices when versionInfo has

parantheses like when running on a git checkout. (Hitesh Shah via vinodkv)

YARN-289. Fair scheduler allows reservations that won't fit on node.

(Sandy Ryza via tomwhite)

YARN-576. Modified ResourceManager to reject NodeManagers that don't satisy

minimum resource requirements. (Kenji Kikushima via vinodkv)

YARN-646. Fix two typos in Fair Scheduler user guide. (Dapeng Sun via atm)

YARN-507. Add interface visibility and stability annotations to FS

interfaces/classes. (kkambatl via tucu)

YARN-637. FS: maxAssign is not honored. (kkambatl via tucu)

YARN-655. Fair scheduler metrics should subtract allocated memory from

available memory. (sandyr via tucu)

YARN-628. Fix the way YarnRemoteException is being unrolled to extract out

the underlying exception. (Siddharth Seth via vinodkv)

YARN-695. Remove masterContainer and status unused fields from

ApplicationReportProto and fix bugs in ApplicationReportPBImpl. (Zhijie Shen

via vinodkv)

YARN-706. Fixed race conditions in TestFSDownload. (Zhijie Shen via vinodkv).

YARN-715. Fixed unit test failures - TestDistributedShell and

TestUnmanagedAMLauncher. (Vinod Kumar Vavilapalli via sseth)

YARN-578. Fixed NM to use SecureIOUtils for reading and aggregating logs.

(Omkar Vinit Joshi via vinodkv)

YARN-733. Fixed TestNMClient from failing occasionally. (Zhijie Shen via

vinodkv)

YARN-730. Fix NMClientAsync to remove completed containers. (Zhijie Shen

via acmurthy)

YARN-726. Fix queue & finish time fields in web-ui for ResourceManager.

(Mayank Bansal via acmurthy)

YARN-757. Changed TestRMRestart to use the default scheduler to avoid test

failures. (Bikas Saha via vinodkv)

YARN-742. Log aggregation causes a lot of redundant setPermission calls.

(jlowe via kihwal)

YARN-764. blank Used Resources on Capacity Scheduler page (Nemon Lou via

tgraves)

YARN-761. TestNMClientAsync fails sometimes (Zhijie Shen via bikas)

YARN-760. NodeManager throws AvroRuntimeException on failed start.

(Niranjan Singh via jlowe)

YARN-767. Initialize application metrics at RM bootup. (Jian He via

acmurthy)

YARN-700. TestInfoBlock fails on Windows because of line ending missmatch.

(Ivan Mitic via cnauroth)

YARN-117. Migrated rest of YARN to the new service model. (Steve Louhran via

vinodkv)

YARN-812. Set default logger for application summary logger to

hadoop.root.logger. (sseth via acmurthy)

YARN-848. Nodemanager does not register with RM using the fully qualified

hostname. (Hitesh Shah via sseth)

YARN-854. Fixing YARN bugs that are failing applications in secure

environment. (Omkar Vinit Joshi via vinodkv)

YARN-861. TestContainerManager is failing. (Vinod Kumar Vavilapalli via

hitesh)

YARN-874. Making common RPC to switch to not switch to simple when other

mechanisms are enabled and thus fix YARN/MR test failures after HADOOP-9421.

(Daryn Sharp and Vinod Kumar Vavilapalli via vinodkv)

YARN-845. RM crash with NPE on NODE\_UPDATE (Mayank Bansal via bikas)

YARN-369. Handle ( or throw a proper error when receiving) status updates

from application masters that have not registered (Mayank Bansal &

Abhishek Kapoor via bikas)

YARN-541. getAllocatedContainers() is not returning all the allocated

containers (bikas)

YARN-763. AMRMClientAsync should stop heartbeating after receiving

shutdown from RM (Xuan Gong via bikas)

YARN-654. AMRMClient: Perform sanity checks for parameters of public

methods (Xuan Gong via bikas)"

YARN-919. Document setting default heap sizes in yarn-env.sh (Mayank

Bansal via hitesh)

YARN-795. Fair scheduler queue metrics should subtract allocated vCores from

available vCores. (ywskycn via tucu)

YARN-799. Fix CgroupsLCEResourcesHandler to use /tasks instead of

/cgroup.procs. (Chris Riccomini via acmurthy)

YARN-333. Schedulers cannot control the queue-name of an

application. (sandyr via tucu)

YARN-368. Fixed a typo in error message in Auxiliary services. (Albert Chu

via vinodkv)

YARN-295. Fixed a race condition in ResourceManager RMAppAttempt state

machine. (Mayank Bansal via vinodkv)

YARN-523. Modified a test-case to validate container diagnostics on

localization failures. (Jian He via vinodkv)

YARN-661. Fixed NM to cleanup users' local directories correctly when

starting up. (Omkar Vinit Joshi via vinodkv)

YARN-820. Fixed an invalid state transition in NodeManager caused by failing

resource localization. (Mayank Bansal via vinodkv)

YARN-62. Modified NodeManagers to avoid AMs from abusing container tokens for

repetitive container launches. (Omkar Vinit Joshi via vinodkv)

YARN-814. Improving diagnostics when containers fail during launch due to

various reasons like invalid env etc. (Jian He via vinodkv)

YARN-897. Ensure child queues are ordered correctly to account for

completed containers. (Djellel Eddine Difallah via acmurthy)

YARN-853. Fixed CapacityScheduler's maximum-am-resource-percent to properly

work beyond refreshing queues. (Devaraj K via vinodkv)

YARN-873. YARNClient.getApplicationReport(unknownAppId) returns a null

report (Xuan Gong via bikas)

YARN-875. Application can hang if AMRMClientAsync callback thread has

exception (Xuan Gong via bikas)

YARN-968. RM admin commands don't work. (vinodkv via kihwal)

YARN-688. Fixed NodeManager to properly cleanup containers when it is shut

down. (Jian He via vinodkv)

YARN-960. Fixed ResourceManager to propagate client-submitted credentials

irrespective of security. (Daryn Sharp via vinodkv)

YARN-937. Fix unmanaged AM in non-secure/secure setup post YARN-701. (tucu)

YARN-932. TestResourceLocalizationService.testLocalizationInit can fail on

JDK7. (Karthik Kambatla via Sandy Ryza)

YARN-961. Changed ContainerManager to enforce Token auth irrespective of

security. (Omkar Vinit Joshi via vinodkv)

YARN-945. Removed setting of AMRMToken's service from ResourceManager

and changed client libraries do it all the time and correctly. (vinodkv)

YARN-656. In scheduler UI, including reserved memory in Memory Total can

make it exceed cluster capacity. (Sandy Ryza)

BREAKDOWN OF HADOOP-8562/YARN-191 SUBTASKS AND RELATED JIRAS

YARN-158. Yarn creating package-info.java must not depend on sh.

(Chris Nauroth via suresh)

YARN-176. Some YARN tests fail to find winutils. (Chris Nauroth via suresh)

YARN-207. YARN distribution build fails on Windows. (Chris Nauroth via

suresh)

YARN-199. Yarn cmd line scripts for windows. (Ivan Mitic via suresh)

YARN-213. YARN build script would be more readable using abspath.

(Chris Nauroth via suresh)

YARN-233. Added support for running containers in MS Windows to YARN. (Chris

Nauroth via acmurthy)

YARN-234. Added support for process tree and resource calculator in MS Windows

to YARN. (Chris Nauroth via acmurthy)

YARN-259. Fix LocalDirsHandlerService to use Path rather than URIs. (Xuan

Gong via acmurthy)

YARN-316. YARN container launch may exceed maximum Windows command line

length due to long classpath. (Chris Nauroth via suresh)

YARN-359. Fixing commands for container signalling in Windows. (Chris Nauroth

via vinodkv)

YARN-506. Move to common utils FileUtil#setReadable/Writable/Executable and

FileUtil#canRead/Write/Execute. (Ivan Mitic via suresh)

YARN-488. TestContainerManagerSecurity fails on Windows. (Chris Nauroth

via hitesh)

YARN-490. TestDistributedShell fails on Windows. (Chris Nauroth via hitesh)

YARN-491. TestContainerLogsPage fails on Windows. (Chris Nauroth via hitesh)

YARN-487. Modify path manipulation in LocalDirsHandlerService to let

TestDiskFailures pass on Windows. (Chris Nauroth via vinodkv)

YARN-593. container launch on Windows does not correctly populate

classpath with new process's environment variables and localized resources

(Chris Nauroth via bikas)

YARN-493. Fixed some shell related flaws in YARN on Windows. (Chris Nauroth

via vinodkv)

YARN-839. TestContainerLaunch.testContainerEnvVariables fails on Windows.

(Chuan Liu via cnauroth)

YARN-597. TestFSDownload fails on Windows due to dependencies on

tar/gzip/jar tools. (Ivan Mitic via acmurthy)

YARN-852. TestAggregatedLogFormat.testContainerLogsFileAccess fails on

Windows. (Chuan Liu via cnauroth)

YARN-894. NodeHealthScriptRunner timeout checking is inaccurate on Windows.

(Chuan Liu via cnauroth)

YARN-909. Disable TestLinuxContainerExecutorWithMocks on Windows. (Chuan Liu

via cnauroth)

YARN-1043. Push all metrics consistently. (Jian He via acmurthy)

YARN-1056. Remove dual use of string 'resourcemanager' in

yarn.resourcemanager.connect.{max.wait.secs|retry\_interval.secs}

(Karthik Kambatla via acmurthy)

Release 2.0.6-alpha - 08/22/2013

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

YARN-854. Fixing YARN bugs that are failing applications in secure

environment. (Omkar Vinit Joshi and shv)

Release 2.0.5-alpha - 06/06/2013

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.0.4-alpha - 2013-04-25

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

YARN-429. capacity-scheduler config missing from yarn-test artifact.

(sseth via hitesh)

YARN-470. Support a way to disable resource monitoring on the NodeManager.

(Siddharth Seth via hitesh)

Release 2.0.3-alpha - 2013-02-06

INCOMPATIBLE CHANGES

NEW FEATURES

YARN-145. Add a Web UI to the fair share scheduler. (Sandy Ryza via tomwhite)

YARN-3. Add support for CPU isolation/monitoring of containers.

(adferguson via tucu)

YARN-230. RM Restart phase 1 - includes support for saving/restarting all

applications on an RM bounce. (Bikas Saha via acmurthy)

YARN-103. Add a yarn AM-RM client module. (Bikas Saha via sseth)

YARN-286. Add a YARN ApplicationClassLoader. (tomwhite)

YARN-2. Enhanced CapacityScheduler to account for CPU alongwith memory for

multi-dimensional resource scheduling. (acmurthy)

YARN-328. Use token request messages defined in hadoop common. (suresh)

YARN-231. RM Restart - Add FS-based persistent store implementation for

RMStateStore (Bikas Saha via hitesh)

IMPROVEMENTS

YARN-223. Update process tree instead of getting new process trees.

(Radim Kolar via llu)

YARN-57. Allow process-tree based resource calculation et al. to be

pluggable to support it on multiple platforms. (Radim Kolar via acmurthy)

YARN-78. Changed UnManagedAM application to use YarnClient. (Bikas Saha via

vinodkv)

YARN-93. Fixed RM to propagate diagnostics from applications that have

finished but failed (Jason Lowe via vinodkv).

YARN-28. Fixed TestCompositeService to not depend on test-order and thus

made it pass on JDK7 (Thomas Graves via vinodkv).

YARN-82. Change the default local and log dirs to be based on

hadoop.tmp.dir and yarn.log.dir. (Hemanth Yamijala via sseth)

YARN-53. Added the missing getGroups API to ResourceManager. (Bo Wang via

vinodkv)

YARN-116. Add the ability to change the RM include/exclude file without

a restart. (xieguiming and Harsh J via sseth)

YARN-23. FairScheduler: FSQueueSchedulable#updateDemand() - potential

redundant aggregation. (kkambatl via tucu)

YARN-127. Move RMAdmin tool to its correct location - the client module.

(vinodkv)

YARN-40. Provided support for missing YARN commands (Devaraj K and Vinod

Kumar Vavilapalli via vinodkv)

YARN-33. Change LocalDirsHandlerService to validate the configured local and

log dirs. (Mayank Bansal via sseth)

YARN-94. Modify DistributedShell to point to main-class by default, clean up

the help message, and hard-code the AM class. (Hitesh Shah via vinodkv)

YARN-146. Add unit tests for computing fair share in the fair scheduler.

(Sandy Ryza via tomwhite)

HADOOP-8911. CRLF characters in source and text files.

(Raja Aluri via suresh)

YARN-136. Make ClientToAMTokenSecretManager part of RMContext (Vinod Kumar

Vavilapalli via sseth)

YARN-183. Clean up fair scheduler code. (Sandy Ryza via tomwhite)

YARN-129. Simplify classpath construction for mini YARN tests. (tomwhite)

YARN-254. Update fair scheduler web UI for hierarchical queues.

(sandyr via tucu)

YARN-315. Using the common security token protobuf definition from hadoop

common. (Suresh Srinivas via vinodkv)

YARN-170. Change NodeManager stop to be reentrant. (Sandy Ryza via vinodkv)

YARN-331. Fill in missing fair scheduler documentation. (sandyr via tucu)

YARN-277. Use AMRMClient in DistributedShell to exemplify the approach.

(Bikas Saha via hitesh)

YARN-360. Allow apps to concurrently register tokens for renewal.

(Daryn Sharp via sseth)

OPTIMIZATIONS

BUG FIXES

YARN-131. Fix incorrect ACL properties in capacity scheduler documentation.

(Ahmed Radwan via sseth)

YARN-102. Move the apache header to the top of the file in MemStore.java.

(Devaraj K via sseth)

YARN-134. ClientToAMSecretManager creates keys without checking for

validity of the appID. (Vinod Kumar Vavilapalli via sseth)

YARN-30. Fixed tests verifying web-services to work on JDK7. (Thomas Graves

via vinodkv)

YARN-150. Fixes AppRejectedTransition does not unregister a rejected

app-attempt from the ApplicationMasterService (Bikas Saha via sseth)

YARN-140. Add capacity-scheduler-default.xml to provide a default set of

configurations for the capacity scheduler. (ahmed via tucu)

YARN-179. Fix some unit test failures. (Vinod Kumar Vavilapalli via sseth)

YARN-181. Fixed eclipse settings broken by capacity-scheduler.xml move via

YARN-140. (Siddharth Seth via vinodkv)

YARN-169. Update log4j.appender.EventCounter to use

org.apache.hadoop.log.metrics.EventCounter (Anthony Rojas via tomwhite)

YARN-184. Remove unnecessary locking in fair scheduler, and address

findbugs excludes. (sandyr via tucu)

YARN-224. Fair scheduler logs too many nodeUpdate INFO messages.

(Sandy Ryza via tomwhite)

YARN-222. Fair scheduler should create queue for each user by default.

(Sandy Ryza via tomwhite)

MAPREDUCE-4778. Fair scheduler event log is only written if directory

exists on HDFS. (Sandy Ryza via tomwhite)

YARN-229. Remove old unused RM recovery code. (Bikas Saha via acmurthy)

YARN-187. Add hierarchical queues to the fair scheduler.

(Sandy Ryza via tomwhite)

YARN-72. NM should handle cleaning up containers when it shuts down.

(Sandy Ryza via tomwhite)

YARN-267. Fix fair scheduler web UI. (Sandy Ryza via tomwhite)

YARN-264. y.s.rm.DelegationTokenRenewer attempts to renew token even

after removing an app. (kkambatl via tucu)

YARN-271. Fair scheduler hits IllegalStateException trying to reserve

different apps on same node. (Sandy Ryza via tomwhite)

YARN-272. Fair scheduler log messages try to print objects without

overridden toString methods. (sandyr via tucu)

YARN-278. Fair scheduler maxRunningApps config causes no apps to make

progress. (sandyr via tucu)

YARN-282. Fair scheduler web UI double counts Apps Submitted.

(sandyr via tucu)

YARN-283. Fair scheduler fails to get queue info without root prefix.

(sandyr via tucu)

YARN-192. Node update causes NPE in the fair scheduler.

(Sandy Ryza via tomwhite)

YARN-288. Fair scheduler queue doesn't accept any jobs when ACLs are

configured. (Sandy Ryza via tomwhite)

YARN-300. After YARN-271, fair scheduler can infinite loop and not

schedule any application. (Sandy Ryza via tomwhite)

YARN-301. Fair scheduler throws ConcurrentModificationException when

iterating over app's priorities. (Sandy Ryza via tomwhite)

YARN-217. Fix RMAdmin protocol description to make it work in secure mode

also. (Devaraj K via vinodkv)

YARN-253. Fixed container-launch to not fail when there are no local

resources to localize. (Tom White via vinodkv)

YARN-330. Fix flakey test: TestNodeManagerShutdown#testKillContainersOnShutdown.

(Sandy Ryza via hitesh)

YARN-335. Fair scheduler doesn't check whether rack needs containers

before assigning to node. (Sandy Ryza via tomwhite)

YARN-336. Fair scheduler FIFO scheduling within a queue only allows 1

app at a time. (Sandy Ryza via tomwhite)

YARN-135. Client tokens should be per app-attempt, and should be

unregistered on App-finish. (vinodkv via sseth)

YARN-302. Fair scheduler assignmultiple should default to false. (sandyr via tucu)

YARN-372. Move InlineDispatcher from hadoop-yarn-server-resourcemanager to

hadoop-yarn-common (sseth via hitesh)

YARN-370. Fix SchedulerUtils to correctly round up the resource for

containers. (Zhijie Shen via acmurthy)

YARN-355. Fixes a bug where RM app submission could jam under load.

(Daryn Sharp via sseth)

Release 2.0.2-alpha - 2012-09-07

YARN-9. Rename YARN\_HOME to HADOOP\_YARN\_HOME. (vinodkv via acmurthy)

NEW FEATURES

YARN-1. Promote YARN to be a sub-project of Apache Hadoop. (acmurthy)

IMPROVEMENTS

YARN-29. Add a yarn-client module. (Vinod Kumar Vavilapalli via sseth)

YARN-10. Fix DistributedShell module to not have a dependency on

hadoop-mapreduce-client-core. (Hitesh Shah via vinodkv)

YARN-80. Add support for delaying rack-local containers in

CapacityScheduler. (acmurthy)

YARN-137. Change the default YARN scheduler to be the CapacityScheduler.

(sseth via acmurthy)

OPTIMIZATIONS

BUG FIXES

YARN-13. Fix pom versions for YARN in branch-2 (todd)

MAPREDUCE-2374. "Text File Busy" errors launching MR tasks. (Andy Isaacson

via atm)

YARN-12. Fix findbugs warnings in FairScheduler. (Junping Du via acmurthy)

YARN-22. Fix ContainerLogs to work if the log-dir is specified as a URI.

(Mayank Bansal via sseth)

YARN-37. Change TestRMAppTransitions to use the DrainDispatcher.

(Mayank Bansal via sseth)

YARN-79. Implement close on all clients to YARN so that RPC clients don't

throw exceptions on shut-down. (Vinod Kumar Vavilapalli)

YARN-42. Modify NM's non-aggregating logs' handler to stop properly so that

NMs don't get NPEs on startup errors. (Devaraj K via vinodkv)

YARN-15. Updated default classpath for YARN applications to reflect split of

YARN into a sub-project. (Arun C Murthy via vinodkv)

YARN-75. Modified ResourceManager's RMContainer to handle a valid RELEASE

event at RUNNING state. (Siddharth Seth via vinodkv)

YARN-138. Ensure default values for minimum/maximum container sizes is

sane. (harsh & sseth via acmurthy)

Release 0.23.11 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

YARN-1180. Update capacity scheduler docs to include types on the configs

(Chen He via jeagles)

Release 0.23.10 - 2013-12-09

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

YARN-985. Nodemanager should log where a resource was localized (Ravi

Prakash via jeagles)

YARN-1119. Add ClusterMetrics checks to tho TestRMNodeTransitions tests

(Mit Desai via jeagles)

OPTIMIZATIONS

BUG FIXES

YARN-337. RM handles killed application tracking URL poorly (jlowe)

YARN-1101. Active nodes can be decremented below 0 (Robert Parker

via tgraves)

YARN-1176. RM web services ClusterMetricsInfo total nodes doesn't include

unhealthy nodes (Jonathan Eagles via tgraves)

YARN-1386. NodeManager mistakenly loses resources and relocalizes them

(Jason Lowe via jeagles)

Release 0.23.9 - 2013-07-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

YARN-427. Coverage fix for org.apache.hadoop.yarn.server.api.\* (Aleksey

Gorshkov via jeagles)

YARN-478. fix coverage org.apache.hadoop.yarn.webapp.log (Aleksey Gorshkov

via jeagles)

OPTIMIZATIONS

BUG FIXES

Release 0.23.8 - 2013-06-05

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

YARN-548. Add tests for YarnUncaughtExceptionHandler (Vadim Bondarev via

jeagles)

BUG FIXES

YARN-363. Add webapps/proxy directory without which YARN proxy-server fails

when started in stand-alone mode. (Kenji Kikushima via vinodkv)

YARN-690. RM exits on token cancel/renew problems (daryn via bobby)

Release 0.23.7 - 2013-04-18

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

YARN-133 Update web services docs for RM clusterMetrics (Ravi Prakash via

kihwal)

YARN-249. Capacity Scheduler web page should show list of active users per

queue like it used to (in 1.x) (Ravi Prakash via tgraves)

YARN-236. RM should point tracking URL to RM web page when app fails to

start (Jason Lowe via jeagles)

YARN-269. Resource Manager not logging the health\_check\_script result when

taking it out (Jason Lowe via kihwal)

YARN-227. Application expiration difficult to debug for end-users

(Jason Lowe via jeagles)

YARN-443. allow OS scheduling priority of NM to be different than the

containers it launches (tgraves)

YARN-468. coverage fix for org.apache.hadoop.yarn.server.webproxy.amfilter

(Aleksey Gorshkov via bobby)

YARN-200. yarn log does not output all needed information, and is in a

binary format (Ravi Prakash via jlowe)

YARN-525. make CS node-locality-delay refreshable (Thomas Graves via jlowe)

OPTIMIZATIONS

YARN-357. App submission should not be synchronized (daryn)

BUG FIXES

YARN-343. Capacity Scheduler maximum-capacity value -1 is invalid (Xuan

Gong via tgraves)

YARN-364. AggregatedLogDeletionService can take too long to delete logs

(jlowe)

YARN-362. Unexpected extra results when using webUI table search (Ravi

Prakash via jlowe)

YARN-400. RM can return null application resource usage report leading to

NPE in client (Jason Lowe via tgraves)

YARN-426. Failure to download a public resource prevents further downloads

(Jason Lowe via bobby)

YARN-448. Remove unnecessary hflush from log aggregation (Kihwal Lee via

bobby)

YARN-345. Many InvalidStateTransitonException errors for ApplicationImpl

in Node Manager (Robert Parker via jlowe)

YARN-109. .tmp file is not deleted for localized archives (Mayank Bansal

via bobby)

YARN-460. CS user left in list of active users for the queue even when

application finished (tgraves)

Release 0.23.6 - 2013-02-06

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

YARN-285. Added a temporary plugin interface for RM to be able to redirect

to JobHistory server for apps that it no longer tracks. (Derek Dagit via

vinodkv)

OPTIMIZATIONS

BUG FIXES

YARN-188. Coverage fixing for CapacityScheduler (Aleksey Gorshkov via

bobby)

YARN-214. RMContainerImpl does not handle event EXPIRE at state RUNNING

(jeagles via bobby)

YARN-151. Browser thinks RM main page JS is taking too long

(Ravi Prakash via bobby)

YARN-204. test coverage for org.apache.hadoop.tools (Aleksey Gorshkov via

bobby)

YARN-251. Proxy URI generation fails for blank tracking URIs (Tom White

via jlowe)

YARN-258. RM web page UI shows Invalid Date for start and finish times

(Ravi Prakash via jlowe)

YARN-266. RM and JHS Web UIs are blank because AppsBlock is not escaping

string properly (Ravi Prakash via jlowe)

YARN-280. RM does not reject app submission with invalid tokens

(Daryn Sharp via tgraves)

YARN-225. Proxy Link in RM UI thows NPE in Secure mode

(Devaraj K via bobby)

YARN-293. Node Manager leaks LocalizerRunner object for every Container

(Robert Joseph Evans via jlowe)

YARN-50. Implement renewal / cancellation of Delegation Tokens

(Siddharth Seth via tgraves)

YARN-320. RM should always be able to renew its own tokens.

(Daryn Sharp via sseth)

YARN-325. RM CapacityScheduler can deadlock when getQueueInfo() is

called and a container is completing (Arun C Murthy via tgraves)

YARN-334. Maven RAT plugin is not checking all source files (tgraves)

YARN-354. WebAppProxyServer exits immediately after startup (Liang Xie via

jlowe)

Release 0.23.5 - 2012-11-28

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

YARN-161. Fix multiple compiler warnings for unchecked operations in YARN

common. (Chris Nauroth via vinodkv)

YARN-43. Fix TestResourceTrackerService to not depend on test order and thus

pass on JDK7. (Thomas Graves via vinodkv)

YARN-32. Fix TestApplicationTokens to not depend on test order and thus pass

on JDK7. (vinodkv)

YARN-186. Coverage fixing LinuxContainerExecutor (Aleksey Gorshkov via

bobby)

YARN-216. Remove jquery theming support. (Robert Joseph Evans via jlowe)

OPTIMIZATIONS

BUG FIXES

YARN-163. Retrieving container log via NM webapp can hang with multibyte

characters in log (jlowe via bobby)

YARN-174. Modify NodeManager to pass the user's configuration even when

rebooting. (vinodkv)

YARN-177. CapacityScheduler - adding a queue while the RM is running has

wacky results (acmurthy vai tgraves)

YARN-178. Fix custom ProcessTree instance creation (Radim Kolar via bobby)

YARN-180. Capacity scheduler - containers that get reserved create

container token to early (acmurthy and bobby)

YARN-139. Interrupted Exception within AsyncDispatcher leads to user

confusion. (Vinod Kumar Vavilapalli via jlowe)

YARN-165. RM should point tracking URL to RM web page for app when AM fails

(jlowe via bobby)

YARN-159. RM web ui applications page should be sorted to display last app

first (tgraves via bobby)

YARN-166. capacity scheduler doesn't allow capacity < 1.0 (tgraves via

bobby)

YARN-189. Fixed a deadlock between RM's ApplicationMasterService and the

dispatcher. (Thomas Graves via vinodkv)

YARN-202. Log Aggregation generates a storm of fsync() for namenode

(Kihwal Lee via bobby)

YARN-201. Fix CapacityScheduler to be less conservative for starved

off-switch requests. (jlowe via acmurthy)

YARN-206. TestApplicationCleanup.testContainerCleanup occasionally fails.

(jlowe via jeagles)

YARN-212. NM state machine ignores an APPLICATION\_CONTAINER\_FINISHED event

when it shouldn't (Nathan Roberts via jlowe)

YARN-219. NM should aggregate logs when application finishes. (bobby)

Release 0.23.4

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

Change package of YarnClient to org.apache.hadoop. (Bikas Saha via vinodkv)

YARN-108. FSDownload can create cache directories with the wrong

permissions (Jason Lowe via bobby)

YARN-57. Allow process-tree based resource calculation et al. to be

pluggable to support it on multiple platforms. (Radim Kolar via acmurthy)

OPTIMIZATIONS

BUG FIXES

YARN-88. DefaultContainerExecutor can fail to set proper permissions.

(Jason Lowe via sseth)

YARN-106. Nodemanager needs to set permissions of local directories (jlowe

via bobby)

Release 0.23.3

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMAZATIONS

BUG FIXES

YARN-14. Symlinks to peer distributed cache files no longer work

(Jason Lowe via bobby)

YARN-25. remove old aggregated logs (Robert Evans via tgraves)

YARN-27. Failed refreshQueues due to misconfiguration prevents further

refreshing of queues (Arun Murthy via tgraves)

MAPREDUCE-4323. NM leaks filesystems (Jason Lowe via jeagles)

YARN-39. RM-NM secret-keys should be randomly generated and rolled every

so often. (vinodkv and sseth via sseth)

YARN-31. Fix TestDelegationTokenRenewer to not depend on test order so as to

pass tests on jdk7. (Thomas Graves via vinodkv)

YARN-63. RMNodeImpl is missing valid transitions from the UNHEALTHY state

(Jason Lowe via bobby)

YARN-60. Fixed a bug in ResourceManager which causes all NMs to get NPEs and

thus causes all containers to be rejected. (vinodkv)

YARN-66. aggregated logs permissions not set properly (tgraves via bobby)

YARN-68. NodeManager will refuse to shutdown indefinitely due to container

log aggregation (daryn via bobby)

YARN-87. NM ResourceLocalizationService does not set permissions of local

cache directories (Jason Lowe via tgraves)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-common-project/hadoop-common/CHANGES.txt**

Hadoop Change Log

Release 2.6.5 - 2016-10-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-12805. Annotate CanUnbuffer with @InterfaceAudience.Public

(Ted Yu via vinayakumarb)

HADOOP-12800. Copy docker directory from 2.8 to 2.7/2.6 repos to enable

pre-commit Jenkins runs (zhz)

HADOOP-12789. log classpath of ApplicationClassLoader at INFO level

(Sangjin Lee via mingma)

HADOOP-13290. Appropriate use of generics in FairCallQueue. (Jonathan Hung

via zhz)

HADOOP-13298. Fix the leftover L&N files in

hadoop-build-tools/src/main/resources/META-INF/. (ozawa)

HADOOP-11301. [optionally] update jmx cache to drop old metrics

(Maysam Yabandeh via stack)

OPTIMIZATIONS

HADOOP-12810. FileSystem#listLocatedStatus causes unnecessary RPC calls

(Ryan Blue via vinayakumarb)

BUG FIXES

HADOOP-12773. HBase classes fail to load with client/job classloader

enabled (sjlee)

HADOOP-12589. Fix intermittent test failure of TestCopyPreserveFlag

(iwasakims)

HADOOP-12559. KMS connection failures should trigger TGT renewal. (Zhe

Zhang via xiaoyuyao)

HADOOP-12682. Fix TestKMS#testKMSRestart\* failure. (Wei-Chiu Chuang via

xiaoyuyao)

HADOOP-12958. PhantomReference for filesystem statistics can trigger OOM

(Sangjin Lee via jlowe)

HADOOP-7817. RawLocalFileSystem.append() should give FSDataOutputStream

with accurate .getPos() (kanaka kumar avvaru via vinayakumarb)

HADOOP-13042. Restore lost leveldbjni LICENSE and NOTICE changes. (wang)

HADOOP-13043. Add LICENSE.txt entries for bundled javascript dependencies.

(wang)

HADOOP-12893. Verify LICENSE.txt and NOTICE.txt.

(Xiao Chen and Andrew Wang via aajisaka)

HADOOP-13189. FairCallQueue makes callQueue larger than the configured

capacity. (Vinitha Gankidi via shvachko)

HADOOP-13255. KMSClientProvider should check and renew tgt when doing

delegation token operations. (Xiao Chen via xiaoyuyao)

HADOOP-13350. Additional fix to LICENSE and NOTICE. (Xiao Chen via wang)

HADOOP-13297. Add missing dependency in setting

maven-remote-resource-plugin to fix builds. (Sean Busbey via aajisaka)

HADOOP-13494. ReconfigurableBase can log sensitive information. (Sean

Mackrory via wang)

HADOOP-13579. Fix source-level compatibility after HADOOP-11252.

(Tsuyoshi Ozawa via aajisaka)

HADOOP-13052. ChecksumFileSystem mishandles crc file permissions.

(Daryn Sharp via kihwal)

HADOOP-13192. org.apache.hadoop.util.LineReader cannot handle multibyte

delimiters correctly. (binde via aajisaka)

HADOOP-12348. MetricsSystemImpl creates MetricsSourceAdapter with wrong

time unit parameter. (zxu via rkanter)

HADOOP-12482. Race condition in JMX cache update. (Tony Wu via lei)

HADOOP-11361. Fix a race condition in MetricsSourceAdapter.updateJmxCache.

(Vinayakumar B, Yongjun Zhang, and Brahma Reddy Battula via ozawa)

HADOOP-13434. Add quoting to Shell class. (Owen O'Malley)

Release 2.6.4 - 2016-02-11

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-11252. RPC client does not time out by default.

(Wilfred Spiegelenburg and Masatake Iwasaki via aajisaka)

HDFS-8767. RawLocalFileSystem.listStatus() returns null for UNIX pipefile.

(kanaka kumar avvaru via wheat9)

HADOOP-12107. long running apps may have a huge number of StatisticsData

instances under FileSystem (Sangjin Lee via Ming Ma)

HADOOP-12706. TestLocalFsFCStatistics#testStatisticsThreadLocalDataCleanUp

times out occasionally (Sangjin Lee and Colin Patrick McCabe via jlowe)

HADOOP-12736. TestTimedOutTestsListener#testThreadDumpAndDeadlocks

sometimes times out. (Xiao Chen via aajisaka)

Release 2.6.3 - 2015-12-17

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-12413. AccessControlList should avoid calling getGroupNames in

isUserInList with empty groups. (Zhihai Xu via cnauroth)

OPTIMIZATIONS

BUG FIXES

HADOOP-12230. hadoop-project declares duplicate, conflicting curator

dependencies. (Rakesh R via aajisaka)

HADOOP-9242. Duplicate surefire plugin config in hadoop-common.

(Andrey Klochkov via suresh)

HADOOP-10668. TestZKFailoverControllerStress#testExpireBackAndForth

occasionally fails. (Ming Ma via cnauroth)

HADOOP-11267. TestSecurityUtil fails when run with JDK8 because of empty

principal names. (Stephen Chu via wheat9)

HADOOP-10134 [JDK8] Fix Javadoc errors caused by incorrect or illegal tags in doc

comments. (apurtell via stevel)

HADOOP-12526. there are duplicate dependency definitions in pom's (sjlee)

HADOOP-12577. Bumped up commons-collections version to 3.2.2 to address a

security flaw. (Wei-Chiu Chuang via vinodkv)

Release 2.6.2 - 2015-10-28

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.6.1 - 2015-09-23

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-7139. Allow appending to existing SequenceFiles

(kanaka kumar avvaru via vinayakumarb)

HADOOP-12280. Skip unit tests based on maven profile rather than

NativeCodeLoader.isNativeCodeLoaded (Masatake Iwasaki via Colin P. McCabe)

OPTIMIZATIONS

HADOOP-11238. Update the NameNode's Group Cache in the background when

possible (Chris Li via Colin P. McCabe)

HADOOP-11506. Configuration variable expansion regex expensive for long

values. (Gera Shegalov via gera)

BUG FIXES

HADOOP-11466: FastByteComparisons: do not use UNSAFE\_COMPARER on the SPARC

architecture because it is slower there (Suman Somasundar via Colin P.

McCabe)

HADOOP-10786. Fix UGI#reloginFromKeytab on Java 8. (Stephen Chu via wheat9)

HADOOP-11333. Fix deadlock in DomainSocketWatcher when the notification

pipe is full (zhaoyunjiong via cmccabe)

HADOOP-11343. Overflow is not properly handled in caclulating final iv for

AES CTR. (Jerry Chen via wang)

HADOOP-11368. Fix SSLFactory truststore reloader thread leak in

KMSClientProvider. (Arun Suresh via wang)

HADOOP-11350. The size of header buffer of HttpServer is too small when

HTTPS is enabled. (Benoy Antony via wheat9)

HADOOP-11482. Use correct UGI when KMSClientProvider is called by a proxy

user. Contributed by Arun Suresh.

HADOOP-11295. RPC Server Reader thread can't shutdown if RPCCallQueue is

full. (Ming Ma via kihwal)

HADOOP-11604. Prevent ConcurrentModificationException while closing domain

sockets during shutdown of DomainSocketWatcher thread. (cnauroth)

HADOOP-11674. oneByteBuf in CryptoInputStream and CryptoOutputStream

should be non static. (Sean Busbey via yliu)

HADOOP-11710. Make CryptoOutputStream behave like DFSOutputStream wrt

synchronization. (Sean Busbey via yliu)

HADOOP-11812. Implement listLocatedStatus for ViewFileSystem to speed up

split calculation (gera)

HADOOP-11730. Regression: s3n read failure recovery broken.

(Takenori Sato via stevel)

HADOOP-11802: DomainSocketWatcher thread terminates sometimes after there

is an I/O error during requestShortCircuitShm (cmccabe)

HADOOP-11491. HarFs incorrectly declared as requiring an authority.

(Brahma Reddy Battula via gera)

HADOOP-8151. Error handling in snappy decompressor throws invalid

exceptions. (Matt Foley via harsh)

HADOOP-11932. MetricsSinkAdapter may hang when being stopped.

(Brahma Reddy Battula via jianhe)

HADOOP-11934. Use of JavaKeyStoreProvider in LdapGroupsMapping causes

infinite loop. (Larry McCay via cnauroth)

Release 2.6.0 - 2014-11-18

INCOMPATIBLE CHANGES

NEW FEATURES

HADOOP-10433. Key Management Server based on KeyProvider API. (tucu)

HADOOP-10893. isolated classloader on the client side (Sangjin Lee via

jlowe)

HADOOP-10400. Incorporate new S3A FileSystem implementation. (Jordan

Mendelson and Dave Wang via atm)

IMPROVEMENTS

HADOOP-10808. Remove unused native code for munlock. (cnauroth)

HADOOP-10815. Implement Windows equivalent of mlock. (cnauroth)

HADOOP-7664. Remove warmings when overriding final parameter configuration

if the override value is same as the final parameter value.

(Ravi Prakash via suresh)

HADOOP-10673. Update rpc metrics when the call throws an exception. (Ming Ma

via jing9)

HADOOP-10845. Add common tests for ACLs in combination with viewfs.

(Stephen Chu via cnauroth)

HADOOP-10839. Add unregisterSource() to MetricsSystem API.

(Shanyu Zhao via cnauroth)

HADOOP-10607. Create an API to separate credentials/password storage

from applications (Larry McCay via omalley)

HADOOP-10732. Fix locking in credential update. (Ted Yu via omalley)

HADOOP-10733. Fix potential null dereference in CredShell. (Ted Yu via

omalley)

HADOOP-10610. Upgrade S3n s3.fs.buffer.dir to support multi directories.

(Ted Malaska via atm)

HADOOP-10817. ProxyUsers configuration should support configurable

prefixes. (tucu)

HADOOP-10755. Support negative caching of user-group mapping.

(Lei Xu via wang)

HADOOP-10855. Allow Text to be read with a known Length. (todd)

HADOOP-10887. Add XAttrs to ViewFs and make XAttrs + ViewFileSystem

internal dir behavior consistent. (Stephen Chu via wang)

HADOOP-10882. Move DirectBufferPool into common util. (todd)

HADOOP-8069. Enable TCP\_NODELAY by default for IPC. (Todd Lipcon via

Arpit Agarwal)

HADOOP-10902. Deletion of directories with snapshots will not output

reason for trash move failure. (Stephen Chu via wang)

HADOOP-10900. CredentialShell args should use single-dash style. (wang)

HADOOP-10903. Enhance hadoop classpath command to expand wildcards or write

classpath into jar manifest. (cnauroth)

HADOOP-10791. AuthenticationFilter should support externalizing the

secret for signing and provide rotation support. (rkanter via tucu)

HADOOP-10771. Refactor HTTP delegation support out of httpfs to common.

(tucu)

HADOOP-10835. Implement HTTP proxyuser support in HTTP authentication

client/server libraries. (tucu)

HADOOP-10820. Throw an exception in GenericOptionsParser when passed

an empty Path. (Alex Holmes and Zhihai Xu via wang)

HADOOP-10281. Create a scheduler, which assigns schedulables a priority

level. (Chris Li via Arpit Agarwal)

HADOOP-8944. Shell command fs -count should include human readable option

(Jonathan Allen via aw)

HADOOP-10231. Add some components in Native Libraries document (Akira

AJISAKA via aw)

HADOOP-10650. Add ability to specify a reverse ACL (black list) of users

and groups. (Benoy Antony via Arpit Agarwal)

HADOOP-10335. An ip whilelist based implementation to resolve Sasl

properties per connection. (Benoy Antony via Arpit Agarwal)

HADOOP-10975. org.apache.hadoop.util.DataChecksum should support calculating

checksums in native code (James Thomas via Colin Patrick McCabe)

HADOOP-10201. Add listing to KeyProvider API. (Larry McCay via omalley)

HADOOP-10177. Create CLI tools for managing keys. (Larry McCay via omalley)

HADOOP-10432. Refactor SSLFactory to expose static method to determine

HostnameVerifier. (tucu)

HADOOP-10429. KeyStores should have methods to generate the materials

themselves, KeyShell should use them. (tucu)

HADOOP-10427. KeyProvider implementations should be thread safe. (tucu)

HADOOP-10428. JavaKeyStoreProvider should accept keystore password via

configuration falling back to ENV VAR. (tucu)

HADOOP-10430. KeyProvider Metadata should have an optional description,

there should be a method to retrieve the metadata from all keys. (tucu)

HADOOP-10431. Change visibility of KeyStore.Options getter methods to

public. (tucu)

HADOOP-10534. KeyProvider getKeysMetadata should take a list of names

rather than returning all keys. (omalley)

HADOOP-10719. Add generateEncryptedKey and decryptEncryptedKey

methods to KeyProvider. (asuresh via tucu)

HADOOP-10817. ProxyUsers configuration should support configurable

prefixes. (tucu)

HADOOP-10881. Clarify usage of encryption and encrypted encryption

key in KeyProviderCryptoExtension. (wang)

HADOOP-10770. KMS add delegation token support. (tucu)

HADOOP-10698. KMS, add proxyuser support. (tucu)

HADOOP-8896. Javadoc points to Wrong Reader and Writer classes

in SequenceFile (Ray Chiang via aw)

HADOOP-10998. Fix bash tab completion code to work (Jim Hester via aw)

HADOOP-10880. Move HTTP delegation tokens out of URL querystring to

a header. (tucu)

HADOOP-11005. Fix HTTP content type for ReconfigurationServlet.

(Lei Xu via wang)

HADOOP-10814. Update Tomcat version used by HttpFS and KMS to latest

6.x version. (rkanter via tucu)

HADOOP-10994. KeyProviderCryptoExtension should use CryptoCodec for

generation/decryption of keys. (tucu)

HADOOP-11021. Configurable replication factor in the hadoop archive

command. (Zhe Zhang via wang)

HADOOP-11030. Define a variable jackson.version instead of using constant

at multiple places. (Juan Yu via kasha)

HADOOP-10990. Add missed NFSv3 request and response classes (brandonli)

HADOOP-10863. KMS should have a blacklist for decrypting EEKs.

(asuresh via tucu)

HADOOP-11054. Add a KeyProvider instantiation based on a URI. (tucu)

HADOOP-11015. Http server/client utils to propagate and recreate

Exceptions from server to client. (tucu)

HADOOP-11060. Create a CryptoCodec test that verifies interoperability

between the JCE and OpenSSL implementations. (hitliuyi via tucu)

HADOOP-11070. Create MiniKMS for testing. (tucu)

HADOOP-11057. checknative command to probe for winutils.exe on windows.

(Xiaoyu Yao via cnauroth)

HADOOP-10758. KMS: add ACLs on per key basis. (tucu)

HADOOP-9540. Expose the InMemoryS3 and S3N FilesystemStores implementations

for Unit testing. (Steve Lougran)

HADOOP-10373 create tools/hadoop-amazon for aws/EMR support (stevel)

HADOOP-11074. Move s3-related FS connector code to hadoop-aws (David S.

Wang via Colin Patrick McCabe)

HADOOP-11091. Eliminate old configuration parameter names from s3a (David

S. Wang via Colin Patrick McCabe)

HADOOP-10868. AuthenticationFilter should support externalizing the

secret for signing and provide rotation support. (rkanter via tucu)

HADOOP-10922. User documentation for CredentialShell. (Larry McCay via wang)

HADOOP-11016. KMS should support signing cookies with zookeeper secret

manager. (tucu)

HADOOP-11106. Document considerations of HAR and Encryption. (clamb via wang)

HADOOP-10970. Cleanup KMS configuration keys. (wang)

HADOOP-11017. KMS delegation token secret manager should be able to use

zookeeper as store. (asuresh via tucu)

HADOOP-11009. Add Timestamp Preservation to DistCp (Gary Steelman via aw)

HADOOP-11101. How about inputstream close statement from catch block to

finally block in FileContext#copy() ( skrho via vinayakumarb )

HADOOP-8808. Update FsShell documentation to mention deprecation of some

of the commands, and mention alternatives (Akira AJISAKA via aw)

HADOOP-10954. Adding site documents of hadoop-tools (Masatake Iwasaki

via aw)

HADOOP-10731. Remove @date JavaDoc comment in ProgramDriver class (Henry

Saputra via aw)

HADOOP-11153. Make number of KMS threads configurable. (wang)

HADOOP-11007. Reinstate building of ant tasks support. (jlowe via kihwal)

HADOOP-11178. Fix findbugs exclude file. (Arun Suresh via wang)

HADOOP-11174. Delegation token for KMS should only be got once if it

already exists. (Yi Liu via wang)

HADOOP-11184. Update Hadoop's lz4 to version r123. (cmccabe)

HADOOP-11181. Generalized o.a.h.s.t.d.DelegationTokenManager to handle all

sub-classes of AbstractDelegationTokenIdentifier. (zjshen)

HADOOP-11207. Enhanced common DelegationTokenAuthenticationHandler to support

proxy-users on Delegation-token management operations. (Zhijie Shen via

vinodkv)

HADOOP-11216. Improve Openssl library finding. (cmccabe via yliu)

HADOOP-11254. Changed visibility of AccessControlList to be public for

consumption by ecosystem. (Zhijie Shen via vinodkv)

HADOOP-11286. Copied LimitInputStream from guava-0.14 to hadoop to avoid

issues with newer versions of guava in applications. (Christopher Tubbs

via acmurthy)

OPTIMIZATIONS

HADOOP-10838. Byte array native checksumming. (James Thomas via todd)

HADOOP-10696. Add optional attributes to KeyProvider Options and Metadata.

(tucu)

HADOOP-10695. KMSClientProvider should respect a configurable timeout.

(yoderme via tucu)

HADOOP-10757. KeyProvider KeyVersion should provide the key name.

(asuresh via tucu)

HADOOP-10769. Create KeyProvider extension to handle delegation tokens.

(Arun Suresh via atm)

HADOOP-10812. Delegate KeyProviderExtension#toString to underlying

KeyProvider. (wang)

HADOOP-10736. Add key attributes to the key shell. (Mike Yoder via wang)

HADOOP-10824. Refactor KMSACLs to avoid locking. (Benoy Antony via umamahesh)

HADOOP-10841. EncryptedKeyVersion should have a key name property.

(asuresh via tucu)

HADOOP-10842. CryptoExtension generateEncryptedKey method should

receive the key name. (asuresh via tucu)

HADOOP-10750. KMSKeyProviderCache should be in hadoop-common.

(asuresh via tucu)

HADOOP-10720. KMS: Implement generateEncryptedKey and decryptEncryptedKey

in the REST API. (asuresh via tucu)

HADOOP-10891. Add EncryptedKeyVersion factory method to

KeyProviderCryptoExtension. (wang)

HADOOP-10756. KMS audit log should consolidate successful similar requests.

(asuresh via tucu)

HADOOP-10793. KeyShell args should use single-dash style. (wang)

HADOOP-10936. Change default KeyProvider bitlength to 128. (wang)

HADOOP-10224. JavaKeyStoreProvider has to protect against corrupting

underlying store. (asuresh via tucu)

HADOOP-10282. Create a FairCallQueue: a multi-level call queue which

schedules incoming calls and multiplexes outgoing calls. (Chris Li via

Arpit Agarwal)

HADOOP-10833. Remove unused cache in UserProvider. (Benoy Antony)

HADOOP-11112. TestKMSWithZK does not use KEY\_PROVIDER\_URI. (tucu via wang)

HADOOP-11111 MiniKDC to use locale EN\_US for case conversions. (stevel)

HADOOP-10681. Remove unnecessary synchronization from Snappy & Zlib

codecs. (Gopal Vijayaraghavan via acmurthy)

HADOOP-11194. Ignore .keep files. (kasha)

HADOOP-11195. Move Id-Name mapping in NFS to the hadoop-common area for

better maintenance (Yongjun Zhang via brandonli)

HADOOP-11247. Fix a couple javac warnings in NFS. (Brandon Li via wheat9)

BUG FIXES

HADOOP-11182. GraphiteSink emits wrong timestamps (Sascha Coenen via raviprak)

HADOOP-10781. Unportable getgrouplist() usage breaks FreeBSD (Dmitry

Sivachenko via Colin Patrick McCabe)

HADOOP-10507. FsShell setfacl can throw ArrayIndexOutOfBoundsException when

no perm is specified. (Stephen Chu and Sathish Gurram via cnauroth)

HADOOP-10780. hadoop\_user\_info\_alloc fails on FreeBSD due to incorrect

sysconf use (Dmitry Sivachenko via Colin Patrick McCabe)

HADOOP-10810. Clean up native code compilation warnings. (cnauroth)

HADOOP-9921. daemon scripts should remove pid file on stop call after stop

or process is found not running ( vinayakumarb )

HADOOP-10591. Compression codecs must used pooled direct buffers or

deallocate direct buffers when stream is closed (cmccabe)

HADOOP-10857. Native Libraries Guide doen't mention a dependency on

openssl-development package (ozawa via cmccabe)

HADOOP-10866. RawLocalFileSystem fails to read symlink targets via the stat

command when the format of the stat command uses non-curly quotes (yzhang

via cmccabe)

HADOOP-10830. Missing lock in JavaKeyStoreProvider.createCredentialEntry.

(Benoy Antony via umamahesh)

HADOOP-10928. Incorrect usage on `hadoop credential list`.

(Josh Elser via wang)

HADOOP-10927. Fix CredentialShell help behavior and error codes.

(Josh Elser via wang)

HADOOP-10933. FileBasedKeyStoresFactory Should use Configuration.getPassword

for SSL Passwords. (lmccay via tucu)

HADOOP-10905. LdapGroupsMapping Should use configuration.getPassword for SSL

and LDAP Passwords. (lmccay via brandonli)

HADOOP-10931 compile error on tools/hadoop-openstack (xukun via stevel)

HADOOP-10929. Typo in Configuration.getPasswordFromCredentialProviders

(lmccay via brandonli)

HADOOP-10402. Configuration.getValByRegex does not substitute for

variables. (Robert Kanter via kasha)

HADOOP-10851. NetgroupCache does not remove group memberships. (Benoy

Antony via Arpit Agarwal)

HADOOP-10962. Flags for posix\_fadvise are not valid in some architectures

(David Villegas via Colin Patrick McCabe)

HADOOP-10966. Hadoop Common native compilation broken in windows.

(David Villegas via Arpit Agarwal)

HADOOP-10843. TestGridmixRecord unit tests failure on PowerPC (Jinghui Wang

via Colin Patrick McCabe)

HADOOP-10121. Fix javadoc spelling for HadoopArchives#writeTopLevelDirs

(Akira AJISAKA via aw)

HADOOP-10964. Small fix for NetworkTopologyWithNodeGroup#sortByDistance.

(Yi Liu via wang)

HADOOP-10059. RPC authentication and authorization metrics overflow to

negative values on busy clusters (Tsuyoshi OZAWA and Akira AJISAKA

via jlowe)

HADOOP-10973. Native Libraries Guide contains format error. (Peter Klavins

via Arpit Agarwal)

HADOOP-10972. Native Libraries Guide contains mis-spelt build line (Peter

Klavins via aw)

HADOOP-10873. Fix dead link in Configuration javadoc (Akira AJISAKA

via aw)

HADOOP-10968. hadoop native build fails to detect java\_libarch on

ppc64le (Dinar Valeev via Colin Patrick McCabe)

HADOOP-10141. Create KeyProvider API to separate encryption key storage

from the applications. (omalley)

HADOOP-10237. JavaKeyStoreProvider needs to set keystore permissions

correctly. (Larry McCay via omalley)

HADOOP-10244. TestKeyShell improperly tests the results of delete (Larry

McCay via omalley)

HADOOP-10583. bin/hadoop key throws NPE with no args and assorted other fixups. (clamb via tucu)

HADOOP-10586. KeyShell doesn't allow setting Options via CLI. (clamb via tucu)

HADOOP-10645. TestKMS fails because race condition writing acl files. (tucu)

HADOOP-10611. KMS, keyVersion name should not be assumed to be

keyName@versionNumber. (tucu)

HADOOP-10816. KeyShell returns -1 on error to the shell, should be 1.

(Mike Yoder via wang)

HADOOP-10826. Iteration on KeyProviderFactory.serviceLoader is

thread-unsafe. (benoyantony viat tucu)

HADOOP-10920. site plugin couldn't parse hadoop-kms index.apt.vm.

(Akira Ajisaka via wang)

HADOOP-10937. Need to set version name correctly before decrypting EEK.

(Arun Suresh via wang)

HADOOP-10925. Compilation fails in native link0 function on Windows.

(cnauroth)

HADOOP-10918. JMXJsonServlet fails when used within Tomcat. (tucu)

HADOOP-10939. Fix TestKeyProviderFactory testcases to use default 128 bit

length keys. (Arun Suresh via wang)

HADOOP-10862. Miscellaneous trivial corrections to KMS classes.

(asuresh via tucu)

HADOOP-10967. Improve DefaultCryptoExtension#generateEncryptedKey

performance. (hitliuyi via tucu)

HADOOP-10488. TestKeyProviderFactory fails randomly. (tucu)

HADOOP-10989. Work around buggy getgrouplist() implementations on Linux that

return 0 on failure. (cnauroth)

HADOOP-8815. RandomDatum needs to override hashCode().

(Brandon Li via suresh)

HADOOP-11056. OsSecureRandom.setConf() might leak file descriptors. (yzhang

via cmccabe)

HADOOP-11040. Return value of read(ByteBuffer buf) in CryptoInputStream is

incorrect in some cases. (Yi Liu via wang)

HADOOP-11140. hadoop-aws only need test-scoped dependency on

hadoop-common's tests jar. (Juan Yu via wang)

HADOOP-1110. JavaKeystoreProvider should not report a key as created if it

was not flushed to the backing file.

HADOOP-11130. NFS updateMaps OS check is reversed (brandonli)

HADOOP-11113. Namenode not able to reconnect to KMS after KMS restart.

(Arun Suresh via wang)

HADOOP-11160. Fix typo in nfs3 server duplicate entry reporting.

(Charles Lamb via wheat9)

HADOOP-11151. Automatically refresh auth token and retry on auth failure.

(Arun Suresh via wang)

HADOOP-11168. Remove duplicated entry "dfs.webhdfs.enabled" in the useri

doc. (Yi Liu via wheat9)

HADOOP-11169. Fix DelegationTokenAuthenticatedURL to pass the connection

Configurator to the authenticator. (Arun Suresh via wang)

HADOOP-10404. Some accesses to DomainSocketWatcher#closed are not protected

by lock (cmccabe)

HADOOP-11161. Expose close method in KeyProvider to give clients of

Provider implementations a hook to release resources. (Arun Suresh via atm)

HADOOP-11133. Should trim the content of keystore password file for JavaKeyStoreProvider

(Yi Liu via umamahesh)

HADOOP-11193. Fix uninitialized variables in NativeIO.c

(Xiaoyu Yao via wheat9)

HADOOP-11176. KMSClientProvider authentication fails when both currentUgi

and loginUgi are a proxied user. (Arun Suresh via atm)

HADOOP-11198. Fix typo in javadoc for FileSystem#listStatus().

(Li Lu via wheat9)

HADOOP-11253. Hadoop streaming test TestStreamXmlMultipleRecords fails on

Windows. (Varun Vasudev via wheat9)

BREAKDOWN OF HDFS-6134 AND HADOOP-10150 SUBTASKS AND RELATED JIRAS

HADOOP-10734. Implement high-performance secure random number sources.

(Yi Liu via Colin Patrick McCabe)

HADOOP-10603. Crypto input and output streams implementing Hadoop stream

interfaces. (Yi Liu and Charles Lamb)

HADOOP-10628. Javadoc and few code style improvement for Crypto

input and output streams. (Yi Liu via clamb)

HADOOP-10632. Minor improvements to Crypto input and output streams.

(Yi Liu)

HADOOP-10635. Add a method to CryptoCodec to generate SRNs for IV. (Yi Liu)

HADOOP-10653. Add a new constructor for CryptoInputStream that

receives current position of wrapped stream. (Yi Liu)

HADOOP-10662. NullPointerException in CryptoInputStream while wrapped

stream is not ByteBufferReadable. Add tests using normal stream. (Yi Liu)

HADOOP-10713. Refactor CryptoCodec#generateSecureRandom to take a byte[].

(wang via yliu)

HADOOP-10693. Implementation of AES-CTR CryptoCodec using JNI to OpenSSL.

(Yi Liu via cmccabe)

HADOOP-10803. Update OpensslCipher#getInstance to accept CipherSuite#name

format. (Yi Liu)

HADOOP-10735. Fall back AesCtrCryptoCodec implementation from OpenSSL to

JCE if non native support. (Yi Liu)

HADOOP-10870. Failed to load OpenSSL cipher error logs on systems with old

openssl versions (cmccabe)

HADOOP-10853. Refactor get instance of CryptoCodec and support create via

algorithm/mode/padding. (Yi Liu)

HADOOP-10919. Copy command should preserve raw.\* namespace

extended attributes. (clamb)

HDFS-6873. Constants in CommandWithDestination should be static. (clamb)

HADOOP-10871. incorrect prototype in OpensslSecureRandom.c (cmccabe)

HADOOP-10886. CryptoCodec#getCodecclasses throws NPE when configurations not

loaded. (umamahesh)

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HADOOP-10911. hadoop.auth cookie after HADOOP-10710 still not proper

according to RFC2109. (gchanan via tucu)

HADOOP-11036. Add build directory to .gitignore (Tsuyoshi OZAWA via aw)

HADOOP-11012. hadoop fs -text of zero-length file causes EOFException

(Eric Payne via jlowe)

HADOOP-11063. KMS cannot deploy on Windows, because class names are too long.

(cnauroth)

HADOOP-11067. warning message 'ssl.client.truststore.location has not

been set' gets printed for hftp command. (Xiaoyu Yao via Arpit Agarwal)

HADOOP-11069. KMSClientProvider should use getAuthenticationMethod() to

determine if in proxyuser mode or not. (tucu)

HADOOP-11073. Credential Provider related Unit Tests Failure on Windows.

(Xiaoyu Yao via cnauroth)

HADOOP-11071. KMSClientProvider should drain the local generated EEK cache

on key rollover. (tucu)

HADOOP-10925. Compilation fails in native link0 function on Windows.

(cnauroth)

HADOOP-11077. NPE if hosts not specified in ProxyUsers. (gchanan via tucu)

HADOOP-9989. Bug introduced in HADOOP-9374, which parses the -tokenCacheFile

as binary file but set it to the configuration as JSON file. (zxu via tucu)

HADOOP-11085. Excessive logging by org.apache.hadoop.util.Progress when

value is NaN (Mit Desai via jlowe)

HADOOP-11083. After refactoring of HTTP proxyuser to common, doAs param is

case sensitive. (tucu)

HADOOP-11088. Unittest TestKeyShell, TestCredShell and TestKMS assume UNIX

path separator for JECKS key store path. (Xiaoyu Yao via cnauroth)

HADOOP-11096. KMS: KeyAuthorizationKeyProvider should verify the keyversion

belongs to the keyname on decrypt. (tucu)

HADOOP-11097. kms docs say proxyusers, not proxyuser for config params.

(clamb via tucu)

HADOOP-11062. CryptoCodec testcases requiring OpenSSL should be run

only if -Pnative is used. (asuresh via tucu)

HADOOP-11099. KMS return HTTP UNAUTHORIZED 401 on ACL failure. (tucu)

HADOOP-11105. MetricsSystemImpl could leak memory in registered callbacks.

(Chuan Liu via cnauroth)

HADOOP-10982. KMS: Support for multiple Kerberos principals. (tucu)

HADOOP-11109. Site build is broken. (Jian He via atm)

HADOOP-10946. Fix a bunch of typos in log messages (Ray Chiang via aw)

HADOOP-10131. NetWorkTopology#countNumOfAvailableNodes() is returning

wrong value if excluded nodes passed are not part of the cluster tree

(vinayakumarb)

HADOOP-11064. UnsatisifedLinkError with hadoop 2.4 JARs on hadoop-2.6 due to

NativeCRC32 method changes. (cnauroth)

HADOOP-11048. user/custom LogManager fails to load if the client

classloader is enabled (Sangjin Lee via jlowe)

HADOOP-10552. Fix usage and example at FileSystemShell.apt.vm

(Kenji Kikushima via aw)

HADOOP-11143 NetUtils.wrapException loses inner stack trace on BindException

(stevel)

HADOOP-11049. javax package system class default is too broad (Sangjin Lee

via jlowe)

HADOOP-11154. Update BUILDING.txt to state that CMake 3.0 or newer is

required on Mac. (cnauroth)

HADOOP-11145. TestFairCallQueue fails. (Akira AJISAKA via cnauroth)

HADOOP-11117 UGI HadoopLoginModule doesn't catch & wrap all

kerberos-related exceptions (stevel)

HADOOP-11163. MetricsSystemImpl may miss a registered source.

(Chuan Liu via cnauroth)

HADOOP-11179. Java untar should handle the case that the file entry comes

without its parent directory entry. (Craig Welch via zjshen)

HADOOP-11175. Fix several issues of hadoop security configuration in user

doc. (Yi Liu via cnauroth)

HADOOP-11122. Fix findbugs in ZK DelegationTokenSecretManagers.

(Arun Suresh via kasha)

HADOOP-11228. Winutils task: unsecure path should not call

AddNodeManagerAndUserACEsToObject. (Remus Rusanu via jianhe)

HADOOP-11170. ZKDelegationTokenSecretManager fails to renewToken created by

a peer. (Arun Suresh and Gregory Chanan via kasha)

HADOOP-11217. Disable SSLv3 in KMS. (Robert Kanter via kasha)

HADOOP-11068. Match hadoop.auth cookie format to jetty output.

(Gregory Chanan via cnauroth)

HADOOP-9740. Fix FsShell '-text' command to be able to read Avro

files stored in HDFS and other filesystems. (Allan Yan via jlowe)

HADOOP-11250. fix endmacro of set\_find\_shared\_library\_without\_version in

CMakeLists (Yi Liu via Colin P. McCabe)

HADOOP-11221. IdentityHashStore assumes System.identityHashCode() is

non-negative. (Jinghui Wang via szetszwo)

HADOOP-11241. Fixed intermittent TestNMSimulator failure due to timing issue.

(Varun Vasudev via zjshen)

HADOOP-11265. Credential and Key Shell Commands not available on Windows.

(Larry McCay via cnauroth)

HADOOP-11280. TestWinUtils#testChmod fails after removal of

NO\_PROPAGATE\_INHERIT\_ACE. (cnauroth)

HADOOP-11282. Skip NFS TestShellBasedIdMapping tests that are irrelevant on

Windows. (cnauroth)

HADOOP-9576. Changed NetUtils#wrapException to throw EOFException instead

of wrapping it as IOException. (Steve Loughran via jianhe)

Release 2.5.2 - 2014-11-19

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-11243. SSLFactory shouldn't allow SSLv3. (Wei Yan via kasha)

HADOOP-11260. Patch up Jetty to disable SSLv3. (Mike Yoder via kasha)

HADOOP-11307. create-release script should run git clean first (kasha)

Release 2.5.1 - 2014-09-05

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-10956. Fix create-release script to include docs and necessary txt

files. (kasha)

OPTIMIZATIONS

BUG FIXES

HADOOP-11001. Fix test-patch to work with the git repo. (kasha)

HADOOP-11065. Rat check should exclude "\*\*/build/\*\*". (kasha)

Release 2.5.0 - 2014-08-11

INCOMPATIBLE CHANGES

NEW FEATURES

HADOOP-10498. Add support for proxy server. (daryn)

HADOOP-9704. Write metrics sink plugin for Hadoop/Graphite (Chu Tong, Alex Newman and Babak Behzad via raviprak)

HADOOP-8943. Support multiple group mapping providers. (Kai Zheng via brandonli)

HADOOP-9361 Strictly define the expected behavior of filesystem APIs and

write tests to verify compliance (stevel)

IMPROVEMENTS

HADOOP-10451. Remove unused field and imports from SaslRpcServer.

(Benoy Antony via jing9)

HADOOP-10345. Sanitize the the inputs (groups and hosts) for the proxyuser

configuration. (Benoy Antony via jing9)

HADOOP-10454. Provide FileContext version of har file system. (Kihwal Lee

via jeagles)

HADOOP-10104. Update jackson to 1.9.13 (Akira Ajisaka via stevel)

HADOOP-10503. Move junit up to v 4.11. (cnauroth)

HADOOP-10535. Make the retry numbers in ActiveStandbyElector configurable.

(jing9)

HADOOP-10322. Add ability to read principal names from a keytab.

(Benoy Antony and Daryn Sharp via kihwal)

HADOOP-10549. MAX\_SUBST and varPat should be final in Configuration.java.

(Gera Shegalov via cnauroth)

HADOOP-10471. Reduce the visibility of constants in ProxyUsers.

(Benoy Antony via wheat9)

HADOOP-10556. Add toLowerCase support to auth\_to\_local rules

for service name. (tucu)

HADOOP-10467. Enable proxyuser specification to support list of users in

addition to list of groups (Benoy Antony via Arpit Agarwal)

HADOOP-10158. SPNEGO should work with multiple interfaces/SPNs.

(daryn via kihwal)

HADOOP-10572. Example NFS mount command must pass noacl as it isn't

supported by the server yet. (Harsh J via brandonli)

HADOOP-10588. Workaround for jetty6 acceptor startup issue. (kihwal)

HADOOP-10609. .gitignore should ignore .orig and .rej files. (kasha)

HADOOP-10614. CBZip2InputStream is not threadsafe (Xiangrui Meng via

Sandy Ryza)

HADOOP-10618. Remove SingleNodeSetup.apt.vm. (Akira Ajisaka via

Arpit Agarwal)

HADOOP-10566. Refactor proxyservers out of ProxyUsers. (Benoy Antony via

Arpit Agarwal)

HDFS-9968. ProxyUsers does not work with NetGroups. (Benoy Antony via

Devaraj Das)

HADOOP-10448. Support pluggable mechanism to specify proxy user settings.

(Benoy Antony via Arpit Agarwal)

HADOOP-9555. HA functionality that uses ZooKeeper may experience inadvertent

TCP RST and miss session expiration event due to bug in client connection

management. (cnauroth)

HADOOP-10376. Refactor refresh\*Protocols into a single generic

refreshConfigProtocol. (Chris Li via Arpit Agarwal)

HADOOP-6350. Documenting Hadoop metrics. (Akira Ajisaka via Arpit Agarwal)

HADOOP-10691. Improve the readability of 'hadoop fs -help'.

(Lei Xu via wang)

HADOOP-10688. Expose thread-level FileSystem StatisticsData (Sandy Ryza)

HADOOP-10657. Have RetryInvocationHandler log failover attempt at INFO

level. (Ming Ma via jing9)

HADOOP-10666. Remove Copyright /d/d/d/d Apache Software Foundation from

the source files license header. (Henry Saputra via wang)

HADOOP-10557. FsShell -cp -pa option for preserving extended ACLs.

(Akira Ajisaka via cnauroth)

HADOOP-10279. Create multiplexer, a requirement for the fair queue.

(Chris Li via Arpit Agarwal)

HADOOP-10659. Refactor AccessControlList to reuse utility functions

and to improve performance. (Benoy Antony via Arpit Agarwal)

HADOOP-10665. Make Hadoop Authentication Handler loads case in-sensitive

(Benoy Antony via vinayakumarb)

HADOOP-10652. Refactor Proxyusers to use AccessControlList. (Benoy

Antony via Arpit Agarwal)

HADOOP-10747. Support configurable retries on SASL connection failures in

RPC client. (cnauroth)

HADOOP-10754. Reenable several HA ZooKeeper-related tests on Windows.

(cnauroth)

HADOOP-10565. Support IP ranges (CIDR) in proxyuser.hosts. (Benoy Antony

via Arpit Agarwal)

HADOOP-10649. Allow overriding the default ACL for service authorization

(Benoy Antony via Arpit Agarwal)

HADOOP-10767. Clean up unused code in Ls shell command. (cnauroth)

HADOOP-9651 Filesystems to throw FileAlreadyExistsException in

createFile(path, overwrite=false) when the file exists (stevel)

HADOOP-9495 Define behaviour of Seekable.seek(), write tests,

fix all hadoop implementations for compliance

HADOOP-10312 Shell.ExitCodeException to have more useful toString (stevel)

HADOOP-10782. Fix typo in DataChecksum class. (Jingguo Yao via suresh)

HADOOP-10896. Update compatibility doc to capture visibility of

un-annotated classes/ methods. (kasha)

OPTIMIZATIONS

HADOOP-10674. Improve PureJavaCrc32 performance and use java.util.zip.CRC32

for Java 7 and above. (szetszwo)

BUG FIXES

HADOOP-10378. Typo in help printed by hdfs dfs -help.

(Mit Desai via suresh)

HADOOP-10418. SaslRpcClient should not assume that remote principals are in

the default\_realm. (atm)

HADOOP-10426. Declare CreateOpts.getOpt(..) with generic type argument,

removes unused FileContext.getFileStatus(..) and fixes various javac

warnings. (szetszwo)

HADOOP-10439. Fix compilation error in branch-2 after HADOOP-10426. (wheat9)

HADOOP-10414. Incorrect property name for RefreshUserMappingProtocol in

hadoop-policy.xml. (Joey Echeverria via atm)

HADOOP-10459. distcp V2 doesn't preserve root dir's attributes when -p is

specified. (Yongjun Zhang via atm)

HADOOP-10462. DF#getFilesystem is not parsing the command output.

(Akira AJISAKA via umamahesh)

HADOOP-10468. TestMetricsSystemImpl.testMultiThreadedPublish fails

intermediately. (wheat9)

HADOOP-10475. ConcurrentModificationException in

AbstractDelegationTokenSelector.selectToken(). (jing9)

HADOOP-10350. BUILDING.txt should mention openssl dependency required

for hadoop-pipes (Vinayakumar B)

HADOOP-10495. TestFileUtil fails on Windows due to bad permission

assertions. (cnauroth)

HADOOP-10496. Metrics system FileSink can leak file descriptor. (cnauroth)

HADOOP-10500. TestDoAsEffectiveUser fails on JDK7 due to failure to reset

proxy user configuration. (cnauroth)

HADOOP-10499. Remove unused parameter from ProxyUsers.authorize().

(Benoy Antony via cnauroth)

HADOOP-9919. Update hadoop-metrics2.properties examples to Yarn.

(Akira AJISAKA via suresh)

HADOOP-10526. Chance for Stream leakage in CompressorStream. (Rushabh

Shah via kihwal)

HADOOP-10251. Both NameNodes could be in STANDBY State if SNN network is unstable

(Vinayakumar B via umamahesh)

HADOOP-10531. hadoop-config.sh - bug in --hosts argument.

(Sebastien Barrier via wang)

HADOOP-10539. Provide backward compatibility for ProxyUsers.authorize()

call. (Benoy Antony via cnauroth)

HADOOP-10540. Datanode upgrade in Windows fails with hardlink error.

(Chris Nauroth and Arpit Agarwal)

HADOOP-10508. RefreshCallQueue fails when authorization is enabled.

(Chris Li via wheat9)

HADOOP-10547. Give SaslPropertiesResolver.getDefaultProperties() public

scope. (Benoy Antony via Arpit Agarwal)

HADOOP-10543. RemoteException's unwrapRemoteException method failed for

PathIOException. (Yongjun Zhang via atm)

HADOOP-10568. Add s3 server-side encryption. (David S. Wang via atm)

HADOOP-10541. InputStream in MiniKdc#initKDCServer for minikdc.ldiff is not

closed. (Swarnim Kulkarni via cnauroth)

HADOOP-10517. InputStream is not closed in two methods of JarFinder.

(Ted Yu via cnauroth)

HADOOP-10581. TestUserGroupInformation#testGetServerSideGroups fails

because groups stored in Set and ArrayList are compared.

(Mit Desai via kihwal)

HADOOP-10585. Retry polices ignore interrupted exceptions (Daryn Sharp via

jeagles)

HADOOP-10401. ShellBasedUnixGroupsMapping#getGroups does not always return

primary group first (Akira AJISAKA via Colin Patrick McCabe)

HADOOP-10489. UserGroupInformation#getTokens and UserGroupInformation

#addToken can lead to ConcurrentModificationException (Robert Kanter via atm)

HADOOP-10625. Trim configuration names when putting/getting them

to properties. (Wangda Tan via xgong)

HADOOP-10602. Documentation has broken "Go Back" hyperlinks.

(Akira AJISAKA via cnauroth)

HADOOP-10639. FileBasedKeyStoresFactory initialization is not using default

for SSL\_REQUIRE\_CLIENT\_CERT\_KEY. (tucu)

HADOOP-10638. Updating hadoop-daemon.sh to work as expected when nfs is

started as a privileged user. (Manikandan Narayanaswamy via atm)

HADOOP-10342. Add a new method to UGI to use a Kerberos login subject to

build a new UGI. (Larry McCay via omalley)

HADOOP-10630. Possible race condition in RetryInvocationHandler. (jing9)

HADOOP-10658. SSLFactory expects truststores being configured. (tucu via atm)

HADOOP-10647. String Format Exception in SwiftNativeFileSystemStore.java.

(Gene Kim via stevel)

HADOOP-9099. NetUtils.normalizeHostName fails on domains where

UnknownHost resolves to an IP address. (Ivan Mitic via suresh)

HADOOP-10664. TestNetUtils.testNormalizeHostName fails. (atm)

HADOOP-10656. The password keystore file is not picked by LDAP group mapping

(brandonli)

HADOOP-10622. Shell.runCommand can deadlock (Gera Shegalov via jlowe)

HADOOP-10686. Writables are not always configured.

(Abraham Elmahrek via kasha)

HADOOP-10678. SecurityUtil has unnecessary synchronization on collection

used for only tests. (Benoy Antony via cnauroth)

HADOOP-10683. Users authenticated with KERBEROS are recorded as being

authenticated with SIMPLE. (Benoy Antony via cnauroth)

HADOOP-10702. KerberosAuthenticationHandler does not log the principal names

correctly. (Benoy Antony via cnauroth)

HADOOP-10699. Fix build native library on mac osx (Binglin Chang via

jlowe)

HADOOP-10660. GraphiteSink should implement Closeable (Chen He and Ted Yu via raviprak)

HADOOP-10716. Cannot use more than 1 har filesystem.

(Rushabh Shah via cnauroth)

HADOOP-9559. When metrics system is restarted MBean names get incorrectly

flagged as dupes. (Mostafa Elhemali and Mike Liddell via cnauroth)

HADOOP-10746. TestSocketIOWithTimeout#testSocketIOWithTimeout fails on

Power PC. (Jinghui Wang via Arpit Agarwal)

HADOOP-9705. FsShell cp -p does not preserve directory attibutes.

(Akira AJISAKA via cnauroth)

HADOOP-10739. Renaming a file into a directory containing the same

filename results in a confusing I/O error (chang li via jlowe)

HADOOP-10533 S3 input stream NPEs in MapReduce join (stevel)

HADOOP-10419 BufferedFSInputStream NPEs on getPos() on a closed stream

(stevel)

HADOOP-10801 dead link in site.xml (Akira AJISAKA via stevel)

HADOOP-10590. ServiceAuthorizationManager is not threadsafe. (Benoy Antony via vinayakumarb)

HADOOP-10711. Cleanup some extra dependencies from hadoop-auth. (rkanter via tucu)

HADOOP-10479. Fix new findbugs warnings in hadoop-minikdc.

(Swarnim Kulkarni via wheat9)

HADOOP-10715. Remove public GraphiteSink#setWriter (Babak Behzad via raviprak)

HADOOP-10710. hadoop.auth cookie is not properly constructed according to

RFC2109. (Juan Yu via tucu)

HADOOP-10864. Tool documentenation is broken. (Akira Ajisaka

via Arpit Agarwal)

HADOOP-10872. TestPathData fails intermittently with "Mkdirs failed

to create d1". (Yongjun Zhang via Arpit Agarwal)

HADOOP-10890. TestDFVariations.testMount fails intermittently. (Yongjun

Zhang via Arpit Agarwal)

HADOOP-10894. Fix dead link in ToolRunner documentation. (Akira Ajisaka

via Arpit Agarwal)

HADOOP-10910. Increase findbugs maxHeap size. (wang)

BREAKDOWN OF HADOOP-10514 SUBTASKS AND RELATED JIRAS

HADOOP-10520. Extended attributes definition and FileSystem APIs for

extended attributes. (Yi Liu via wang)

HADOOP-10546. Javadoc and other small fixes for extended attributes in

hadoop-common. (Charles Lamb via wang)

HADOOP-10521. FsShell commands for extended attributes. (Yi Liu via wang)

HADOOP-10548. Improve FsShell xattr error handling and other fixes. (Charles Lamb via umamahesh)

HADOOP-10567. Shift XAttr value encoding code out for reuse. (Yi Liu via umamahesh)

HADOOP-10621. Remove CRLF for xattr value base64 encoding for better display.(Yi Liu via umamahesh)

HADOOP-10575. Small fixes for XAttrCommands and test. (Yi Liu via umamahesh)

HADOOP-10561. Copy command with preserve option should handle Xattrs.

(Yi Liu via cnauroth)

Release 2.4.1 - 2014-06-23

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-10466. Lower the log level in UserGroupInformation. (Nicolas

Liochon via szetszwo)

OPTIMIZATIONS

BUG FIXES

HADOOP-10455. When there is an exception, ipc.Server should first check

whether it is an terse exception. (szetszwo)

HADOOP-10456. Bug in Configuration.java exposed by Spark

(ConcurrentModificationException). (Nishkam Ravi via cnauroth)

HADOOP-10473. TestCallQueueManager should interrupt before counting calls.

(szetszwo)

HADOOP-10490. TestMapFile and TestBloomMapFile leak file descriptors.

(cnauroth)

HADOOP-10522. JniBasedUnixGroupMapping mishandles errors. (kihwal)

HADOOP-10527. Fix incorrect return code and allow more retries on EINTR.

(kihwal)

HADOOP-10612. NFS failed to refresh the user group id mapping table (brandonli)

HADOOP-10562. Namenode exits on exception without printing stack trace

in AbstractDelegationTokenSecretManager. (Suresh Srinivas via Arpit

Agarwal)

Release 2.4.0 - 2014-04-07

INCOMPATIBLE CHANGES

HADOOP-8691. FsShell can print "Found xxx items" unnecessarily often.

(Daryn Sharp via wheat9)

NEW FEATURES

HADOOP-10184. Hadoop Common changes required to support HDFS ACLs. (See

breakdown of tasks below for features and contributors)

IMPROVEMENTS

HADOOP-10139. Update and improve the Single Cluster Setup document.

(Akira Ajisaka via Arpit Agarwal)

HADOOP-10295. Allow distcp to automatically identify the checksum type of

source files and use it for the target. (jing9 and Laurent Goujon)

HADOOP-10333. Fix grammatical error in overview.html document.

(René Nyffenegger via suresh)

HADOOP-10343. Change info to debug log in LossyRetryInvocationHandler. (arpit)

HADOOP-10348. Deprecate hadoop.ssl.configuration in branch-2, and remove

it in trunk. (Haohui Mai via jing9)

HADOOP-9454. Support multipart uploads for s3native. (Jordan Mendelson and

Akira AJISAKA via atm)

HADOOP-10374. InterfaceAudience annotations should have

RetentionPolicy.RUNTIME (Enis Soztutar via Arpit Agarwal)

HADOOP-10278. Refactor to make CallQueue pluggable. (Chris Li via

Arpit Agarwal)

HADOOP-10285. Admin interface to swap callqueue at runtime. (Chris Li via

Arpit Agarwal)

HADOOP-10314. The ls command help still shows outdated 0.16 format.

(Rushabh S Shah via kihwal)

HADOOP-10379. Protect authentication cookies with the HttpOnly and Secure

flags. (wheat9)

HADOOP-10211. Enable RPC protocol to negotiate SASL-QOP values between

clients and servers. (Benoy Antony via Arpit Agarwal)

HADOOP-10386. Log proxy hostname in various exceptions being thrown in a HA

setup. (wheat9)

HADOOP-3679. Fixup assert ordering in unit tests to yield meaningful error

messages. (Jay Vyas via cdouglas)

HADOOP-10221. Add a plugin to specify SaslProperties for RPC protocol

based on connection properties. (Benoy Antony and Daryn Sharp via

Arpit Agarwal)

HADOOP-10015. UserGroupInformation prints out excessive warnings.

(Nicolas Liochon via szetszwo)

HADOOP-10423. Clarify compatibility policy document for combination of

new client and old server. (Chris Nauroth via kasha)

HADOOP-10280. Make Schedulables return a configurable identity of user

or group. (Chris Li via Arpit Agarwal)

OPTIMIZATIONS

BUG FIXES

HADOOP-10320. Javadoc in InterfaceStability.java lacks final </ul>.

(René Nyffenegger via cnauroth)

HADOOP-10085. CompositeService should allow adding services while being

inited. (Steve Loughran via kasha)

HADOOP-10327. Trunk windows build broken after HDFS-5746.

(Vinay via cnauroth)

HADOOP-10330. TestFrameDecoder fails if it cannot bind port 12345.

(Arpit Agarwal)

HADOOP-10326. M/R jobs can not access S3 if Kerberos is enabled. (bc Wong

via atm)

HADOOP-10338. Cannot get the FileStatus of the root inode from the new

Globber (cmccabe)

HADOOP-10249. LdapGroupsMapping should trim ldap password read from file.

(Dilli Armugam via suresh)

HADOOP-10346. Deadlock while logging tokens (jlowe)

HADOOP-10328. loadGenerator exit code is not reliable.

(Haohui Mai via cnauroth)

HADOOP-10355. Fix TestLoadGenerator#testLoadGenerator. (Haohui Mai via jing9)

HADOOP-10070. RPC client doesn't use per-connection conf to determine

server's expected Kerberos principal name. (atm)

HADOOP-10368. InputStream is not closed in VersionInfo ctor.

(Tsuyoshi OZAWA via szetszwo)

HADOOP-10353. FsUrlStreamHandlerFactory is not thread safe.

(Tudor Scurtu via cnauroth)

HADOOP-10393. Fix the javac warnings in hadoop-auth. (szetszwo)

HADOOP-10395. TestCallQueueManager is flaky. (Arpit Agarwal)

HADOOP-10394. TestAuthenticationFilter is flaky. (Arpit Agarwal)

HADOOP-10337 ConcurrentModificationException from

MetricsDynamicMBeanBase.createMBeanInfo() (Liang Xie via stack)

HADOOP-10407. Fix the javac warnings in org.apache.hadoop.ipc package.

(szetszwo)

HADOOP-10191. Missing executable permission on viewfs internal dirs.

(Gera Shegalov via cnauroth)

HADOOP-10422. Remove redundant logging of RPC retry attempts. (cnauroth)

HADOOP-10425. LocalFileSystem.getContentSummary should not count crc files.

(szetszwo)

HADOOP-10440. HarFsInputStream.read(byte[]) updates position incorrectly.

(guodongdong via szetszwo)

HADOOP-10437. Fix the javac warnings in the conf and the util package.

(szetszwo)

HADOOP-10441. Namenode metric "rpc.RetryCache/NameNodeRetryCache.CacheHit"

can't be correctly processed by Ganglia. (jing9)

HADOOP-10449. Fix the javac warnings in the security package. (szetszwo)

HADOOP-10450. Build zlib native code bindings in hadoop.dll for Windows.

(cnauroth)

HADOOP-10301. AuthenticationFilter should return Forbidden for failed

authentication. (Daryn Sharp via jing9)

HADOOP-9525. Add tests that validate winutils chmod behavior on folders

(ivanmi)

BREAKDOWN OF HADOOP-10184 SUBTASKS AND RELATED JIRAS

HADOOP-10185. FileSystem API for ACLs. (cnauroth)

HADOOP-10186. Remove AclReadFlag and AclWriteFlag in FileSystem API.

(Haohui Mai via cnauroth)

HADOOP-10187. FsShell CLI: add getfacl and setfacl with minimal support for

getting and setting ACLs. (Vinay via cnauroth)

HADOOP-10192. FileSystem#getAclStatus has incorrect JavaDocs. (cnauroth)

HADOOP-10220. Add ACL indicator bit to FsPermission. (cnauroth)

HADOOP-10241. Clean up output of FsShell getfacl. (Chris Nauroth via wheat9)

HADOOP-10213. Fix bugs parsing ACL spec in FsShell setfacl.

(Vinay via cnauroth)

HADOOP-10277. setfacl -x fails to parse ACL spec if trying to remove the

mask entry. (Vinay via cnauroth)

HADOOP-10270. getfacl does not display effective permissions of masked

entries. (cnauroth)

HADOOP-10344. Fix TestAclCommands after merging HADOOP-10338 patch.

(cnauroth)

HADOOP-10352. Recursive setfacl erroneously attempts to apply default ACL to

files. (cnauroth)

HADOOP-10354. TestWebHDFS fails after merge of HDFS-4685 to trunk. (cnauroth)

HADOOP-10361. Correct alignment in CLI output for ACLs. (cnauroth)

HADOOP-10399. FileContext API for ACLs. (Vinayakumar B via cnauroth)

HADOOP-10442. Group look-up can cause segmentation fault when certain

JNI-based mapping module is used. (Kihwal Lee via jeagles)

Release 2.3.1 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.3.0 - 2014-02-18

INCOMPATIBLE CHANGES

NEW FEATURES

HADOOP-8545. Filesystem Implementation for OpenStack Swift

(Dmitry Mezhensky, David Dobbins, Stevel via stevel)

IMPROVEMENTS

HADOOP-10046. Print a log message when SSL is enabled.

(David S. Wang via wang)

HADOOP-10079. log a warning message if group resolution takes too long.

(cmccabe)

HADOOP-9623. Update jets3t dependency to 0.9.0 (Amandeep Khurana via Colin

Patrick McCabe)

HADOOP-10132. RPC#stopProxy() should log the class of proxy when IllegalArgumentException

is encountered (Ted yu via umamahesh)

HADOOP-10248. Property name should be included in the exception where property value

is null (Akira AJISAKA via umamahesh)

HADOOP-10086. User document for authentication in secure cluster.

(Masatake Iwasaki via Arpit Agarwal)

HADOOP-10274 Lower the logging level from ERROR to WARN for UGI.doAs method

(Takeshi Miao via stack)

HADOOP-9784. Add a builder for HttpServer. (Junping Du via llu)

HADOOP 9871. Fix intermittent findbugs warnings in DefaultMetricsSystem.

(Junping Du via llu)

HADOOP-9319. Update bundled LZ4 source to r99. (Binglin Chang via llu)

HADOOP-9432 Add support for markdown .md files in site documentation (stevel)

HADOOP-9241. DU refresh interval is not configurable (harsh)

HADOOP-9417. Support for symlink resolution in LocalFileSystem /

RawLocalFileSystem. (Andrew Wang via Colin Patrick McCabe)

HADOOP-9703. org.apache.hadoop.ipc.Client leaks threads on stop.

(Tsuyoshi OZAWA vi Colin Patrick McCabe)

HADOOP-9618. Add thread which detects GC pauses.

(Todd Lipcon via Colin Patrick McCabe)

HADOOP-9848. Create a MiniKDC for use with security testing.

(ywskycn via tucu)

HADOOP-9860. Remove class HackedKeytab and HackedKeytabEncoder from

hadoop-minikdc once jira DIRSERVER-1882 solved. (ywskycn via tucu)

HADOOP-9866. convert hadoop-auth testcases requiring kerberos to

use minikdc. (ywskycn via tucu)

HADOOP-9487 Deprecation warnings in Configuration should go to their

own log or otherwise be suppressible (Chu Tong via stevel)

HADOOP-9889. Refresh the Krb5 configuration when creating a new kdc in

Hadoop-MiniKDC (Wei Yan via Sandy Ryza)

HADOOP-9915. o.a.h.fs.Stat support on Mac OS X (Binglin Chang via Colin

Patrick McCabe)

HADOOP-9998. Provide methods to clear only part of the DNSToSwitchMapping.

(Junping Du via Colin Patrick McCabe)

HADOOP-9063. enhance unit-test coverage of class

org.apache.hadoop.fs.FileUtil (Ivan A. Veselovsky via jlowe)

HADOOP-9254. Cover packages org.apache.hadoop.util.bloom,

org.apache.hadoop.util.hash (Vadim Bondarev via jlowe)

HADOOP-9225. Cover package org.apache.hadoop.compress.Snappy (Vadim

Bondarev, Andrey Klochkov and Nathan Roberts via jlowe)

HADOOP-9199. Cover package org.apache.hadoop.io with unit tests (Andrey

Klochkov via jeagles)

HADOOP-9470. eliminate duplicate FQN tests in different Hadoop modules

(Ivan A. Veselovsky via daryn)

HADOOP-9494. Excluded auto-generated and examples code from clover reports

(Andrey Klochkov via jeagles)

HADOOP-9897. Add method to get path start position without drive specifier in

o.a.h.fs.Path. (Binglin Chang via cnauroth)

HADOOP-9078. enhance unit-test coverage of class

org.apache.hadoop.fs.FileContext (Ivan A. Veselovsky via jeagles)

HDFS-5276. FileSystem.Statistics should use thread-local counters to avoid

multi-threaded performance issues on read/write. (Colin Patrick McCabe)

HADOOP-9291. enhance unit-test coverage of package o.a.h.metrics2 (Ivan A.

Veselovsky via jeagles)

HADOOP-10064. Upgrade to maven antrun plugin version 1.7 (Arpit Agarwal via

jeagles)

HADOOP-9594. Update apache commons math dependency (Timothy St. Clair via

stevel)

HADOOP-10095. In CodecPool, synchronize pool and codecList separately in

order to reduce lock contention. (Nicolas Liochon via szetszwo)

HADOOP-10067. Missing POM dependency on jsr305 (Robert Rati via stevel)

HADOOP-10103. update commons-lang to 2.6 (Akira AJISAKA via stevel)

HADOOP-10111. Allow DU to be initialized with an initial value (Kihwal Lee

via jeagles)

HADOOP-10126. LightWeightGSet log message is confusing. (Vinay via suresh)

HADOOP-10127. Add ipc.client.connect.retry.interval to control the frequency

of connection retries (Karthik Kambatla via Sandy Ryza)

HADOOP-10102. Update commons IO from 2.1 to 2.4 (Akira Ajisaka via stevel)

HADOOP-10168. fix javadoc of ReflectionUtils#copy. (Thejas Nair via suresh)

HADOOP-10164. Allow UGI to login with a known Subject (bobby)

HADOOP-10169. Remove the unnecessary synchronized in JvmMetrics class.

(Liang Xie via jing9)

HADOOP-10198. DomainSocket: add support for socketpair.

(Colin Patrick McCabe via wang)

HADOOP-10208. Remove duplicate initialization in StringUtils.getStringCollection.

(Benoy Antony via jing9)

HADOOP-9420. Add percentile or max metric for rpcQueueTime, processing time.

(Liang Xie via wang)

HADOOP-9652. Allow RawLocalFs#getFileLinkStatus to fill in the link owner

and mode if requested. (Andrew Wang via Colin Patrick McCabe)

HADOOP-10305. Add "rpc.metrics.quantile.enable" and

"rpc.metrics.percentiles.intervals" to core-default.xml.

(Akira Ajisaka via wang)

HADOOP-10317. Rename branch-2.3 release version from 2.4.0-SNAPSHOT

to 2.3.0-SNAPSHOT. (wang)

HADOOP-10313. Script and jenkins job to produce Hadoop release artifacts.

(tucu)

OPTIMIZATIONS

HADOOP-10142. Avoid groups lookup for unprivileged users such as "dr.who"

(vinay via cmccabe)

HADOOP-9748. Reduce blocking on UGI.ensureInitialized (daryn)

HADOOP-10047. Add a direct-buffer based apis for compression. (Gopal V

via acmurthy)

HADOOP-10172. Cache SASL server factories (daryn)

HADOOP-10173. Remove UGI from DIGEST-MD5 SASL server creation (daryn via

kihwal)

HADOOP-10228. FsPermission#fromShort() should cache FsAction.values().

(Haohui Mai via cnauroth)

HADOOP-10143 replace WritableFactories's hashmap with ConcurrentHashMap

(Liang Xie via stack)

BUG FIXES

HADOOP-10028. Malformed ssl-server.xml.example. (Haohui Mai via jing9)

HADOOP-10030. FsShell -put/copyFromLocal should support Windows local path.

(Chuan Liu via cnauroth)

HADOOP-10031. FsShell -get/copyToLocal/moveFromLocal should support Windows

local path. (Chuan Liu via cnauroth)

HADOOP-10039. Add Hive to the list of projects using

AbstractDelegationTokenSecretManager. (Haohui Mai via jing9)

HADOOP-10040. hadoop.cmd in UNIX format and would not run by default on

Windows. (cnauroth)

HADOOP-10055. FileSystemShell.apt.vm doc has typo "numRepicas".

(Akira Ajisaka via cnauroth)

HADOOP-10072. TestNfsExports#testMultiMatchers fails due to non-deterministic

timing around cache expiry check. (cnauroth)

HADOOP-9898. Set SO\_KEEPALIVE on all our sockets. (todd via wang)

HADOOP-9478. Fix race conditions during the initialization of Configuration

related to deprecatedKeyMap (cmccabe)

HADOOP-9660. [WINDOWS] Powershell / cmd parses -Dkey=value from command line

as [-Dkey, value] which breaks GenericsOptionParser.

(Enis Soztutar via cnauroth)

HADOOP-10078. KerberosAuthenticator always does SPNEGO. (rkanter via tucu)

HADOOP-10110. hadoop-auth has a build break due to missing dependency.

(Chuan Liu via arp)

HADOOP-9114. After defined the dfs.checksum.type as the NULL, write file and hflush will

through java.lang.ArrayIndexOutOfBoundsException (Sathish via umamahesh)

HADOOP-10130. RawLocalFS::LocalFSFileInputStream.pread does not track

FS::Statistics (Binglin Chang via Colin Patrick McCabe)

HDFS-5560. Trash configuration log statements prints incorrect units.

(Josh Elser via Andrew Wang)

HADOOP-10081. Client.setupIOStreams can leak socket resources on exception

or error (Tsuyoshi OZAWA via jlowe)

HADOOP-10087. UserGroupInformation.getGroupNames() fails to return primary

group first when JniBasedUnixGroupsMappingWithFallback is used (cmccabe)

HADOOP-10175. Har files system authority should preserve userinfo.

(Chuan Liu via cnauroth)

HADOOP-10090. Jobtracker metrics not updated properly after execution

of a mapreduce job. (ivanmi)

HADOOP-10193. hadoop-auth's PseudoAuthenticationHandler can consume getInputStream.

(gchanan via tucu)

HADOOP-10178. Configuration deprecation always emit "deprecated" warnings

when a new key is used. (Shanyu Zhao via cnauroth)

HADOOP-10234. "hadoop.cmd jar" does not propagate exit code. (cnauroth)

HADOOP-10240. Windows build instructions incorrectly state requirement of

protoc 2.4.1 instead of 2.5.0. (cnauroth)

HADOOP-10110. hadoop-auth has a build break due to missing dependency

(Chuan Liu via cos)

HADOOP-10167. Mark hadoop-common source as UTF-8 in Maven pom files / refactoring

(Mikhail Antonov via cos)

HADOOP-9982. Fix dead links in hadoop site docs. (Akira Ajisaka via Arpit

Agarwal)

HADOOP-10212. Incorrect compile command in Native Library document.

(Akira Ajisaka via Arpit Agarwal)

HADOOP-9830. Fix typo at http://hadoop.apache.org/docs/current/

(Kousuke Saruta via Arpit Agarwal)

HADOOP-10255. Rename HttpServer to HttpServer2 to retain older

HttpServer in branch-2 for compatibility. (Haohui Mai via suresh)

HADOOP-10292. Restore HttpServer from branch-2.2 in branch-2.

(Haohui Mai via suresh)

HADOOP-10291. TestSecurityUtil#testSocketAddrWithIP fails due to test

order dependency. (Mit Desai via Arpit Agarwal)

HADOOP-9964. Fix deadlocks in TestHttpServer by synchronize

ReflectionUtils.printThreadInfo. (Junping Du via llu)

HADOOP-9582. Non-existent file to "hadoop fs -conf" doesn't throw error

(Ashwin Shankar via jlowe)

HADOOP-9817. FileSystem#globStatus and FileContext#globStatus need to work

with symlinks. (Colin Patrick McCabe via Andrew Wang)

HADOOP-9875. TestDoAsEffectiveUser can fail on JDK 7. (Aaron T. Myers via

Colin Patrick McCabe)

HADOOP-9865. FileContext#globStatus has a regression with respect to

relative path. (Chuan Lin via Colin Patrick McCabe)

HADOOP-9909. org.apache.hadoop.fs.Stat should permit other LANG.

(Shinichi Yamashita via Andrew Wang)

HADOOP-9908. Fix NPE when versioninfo properties file is missing (todd)

HADOOP-9929. Insufficient permissions for a path reported as File Not

Found. (Contributed by Colin Patrick McCabe)

HADOOP-9791. Add a test case covering long paths for new FileUtil access

check methods (ivanmi)

HADOOP-9981. globStatus should minimize its listStatus and getFileStatus

calls. (Contributed by Colin Patrick McCabe)

HADOOP-10006. Compilation failure in trunk for

o.a.h.fs.swift.util.JSONUtil (Junping Du via stevel)

HADOOP-9016. HarFsInputStream.skip(long) must never return negative value.

(Ivan A. Veselovsky via jeagles)

HADOOP-10088. copy-nativedistlibs.sh needs to quote snappy lib dir.

(Raja Aluri via cnauroth)

HADOOP-10093. hadoop-env.cmd sets HADOOP\_CLIENT\_OPTS with a max heap size

that is too small. (Shanyu Zhao via cnauroth)

HADOOP-10094. NPE in GenericOptionsParser#preProcessForWindows().

(Enis Soztutar via cnauroth)

HADOOP-10100. MiniKDC shouldn't use apacheds-all artifact. (rkanter via tucu)

HADOOP-10107. Server.getNumOpenConnections may throw NPE. (Kihwal Lee via

jing9)

HADOOP-10135 writes to swift fs over partition size leave temp files and

empty output file (David Dobbins via stevel)

HADOOP-10129. Distcp may succeed when it fails (daryn)

HADOOP-10058. TestMetricsSystemImpl#testInitFirstVerifyStopInvokedImmediately

fails on trunk (Chen He via jeagles)

HADOOP-10162. Fix symlink-related test failures in

TestFileContextResolveAfs and TestStat in branch-2 (Mit Desai via Colin

Patrick McCabe)

HADOOP-8753. LocalDirAllocator throws "ArithmeticException: / by zero" when

there is no available space on configured local dir. (Benoy Antony via hitesh)

HADOOP-10106. Incorrect thread name in RPC log messages. (Ming Ma via jing9)

HADOOP-9611 mvn-rpmbuild against google-guice > 3.0 yields missing cglib

dependency (Timothy St. Clair via stevel)

HADOOP-10171. TestRPC fails intermittently on jkd7 (Mit Desai via jeagles)

HADOOP-10147 HDFS-5678 Upgrade to commons-logging 1.1.3 to avoid potential

deadlock in MiniDFSCluster (stevel)

HADOOP-10207. TestUserGroupInformation#testLogin is flaky (jxiang via

cmccabe)

HADOOP-10214. Fix multithreaded correctness warnings in ActiveStandbyElector

(Liang Xie via kasha)

HADOOP-10223. MiniKdc#main() should close the FileReader it creates.

(Ted Yu via tucu)

HADOOP-10236. Fix typo in o.a.h.ipc.Client#checkResponse. (Akira Ajisaka

via suresh)

HADOOP-10146. Workaround JDK7 Process fd close bug (daryn)

HADOOP-10125. no need to process RPC request if the client connection

has been dropped (Ming Ma via brandonli)

HADOOP-10235. Hadoop tarball has 2 versions of stax-api JARs. (tucu)

HADOOP-10252. HttpServer can't start if hostname is not specified. (Jimmy

Xiang via atm)

HADOOP-10203. Connection leak in

Jets3tNativeFileSystemStore#retrieveMetadata. (Andrei Savu via atm)

HADOOP-10250. VersionUtil returns wrong value when comparing two versions.

(Yongjun Zhang via atm)

HADOOP-10288. Explicit reference to Log4JLogger breaks non-log4j users

(todd)

HADOOP-10310. SaslRpcServer should be initialized even when no secret

manager present. (atm)

HADOOP-10311. Cleanup vendor names from the code base. (tucu)

HADOOP-10273. Fix 'mvn site'. (Arpit Agarwal)

Release 2.2.0 - 2013-10-13

INCOMPATIBLE CHANGES

HADOOP-10020. Disable symlinks temporarily (cmccabe)

NEW FEATURES

IMPROVEMENTS

HADOOP-9948. Add a config value to CLITestHelper to skip tests on Windows.

(Chuan Liu via cnauroth)

HADOOP-9976. Different versions of avro and avro-maven-plugin (Karthik

Kambatla via Sandy Ryza)

HADOOP-9758. Provide configuration option for FileSystem/FileContext

symlink resolution. (Andrew Wang via Colin Patrick McCabe)

HADOOP-8315. Support SASL-authenticated ZooKeeper in ActiveStandbyElector

(todd)

OPTIMIZATIONS

BUG FIXES

HADOOP-9776. HarFileSystem.listStatus() returns invalid authority if port

number is empty. (Shanyu Zhao via ivanmi)

HADOOP-9761. ViewFileSystem#rename fails when using DistributedFileSystem.

(Andrew Wang via Colin Patrick McCabe)

HADOOP-10003. HarFileSystem.listLocatedStatus() fails.

(Jason Dere and suresh via suresh)

HADOOP-10017. Fix NPE in DFSClient#getDelegationToken when doing Distcp

from a secured cluster to an insecured cluster. (Haohui Mai via jing9)

Release 2.1.1-beta - 2013-09-23

INCOMPATIBLE CHANGES

HADOOP-9944. Fix RpcRequestHeaderProto.callId to be sint32 rather than

uint32 since ipc.Client.CONNECTION\_CONTEXT\_CALL\_ID is signed (i.e. -3)

(acmurthy)

NEW FEATURES

IMPROVEMENTS

HADOOP-9910. proxy server start and stop documentation wrong

(Andre Kelpe via harsh)

HADOOP-9446. Support Kerberos SPNEGO for IBM JDK. (Yu Gao via llu)

HADOOP-9787. ShutdownHelper util to shutdown threads and threadpools.

(Karthik Kambatla via Sandy Ryza)

HADOOP-9803. Add a generic type parameter to RetryInvocationHandler.

(szetszwo)

HADOOP-9821. ClientId should have getMsb/getLsb methods.

(Tsuyoshi OZAWA via jing9)

HADOOP-9435. Support building the JNI code against the IBM JVM.

(Tian Hong Wang via Colin Patrick McCabe)

HADOOP-9833 move slf4j to version 1.7.5 (Kousuke Saruta via stevel)

HADOOP-9672. Upgrade Avro dependency to 1.7.4. (sandy via kihwal)

HADOOP-9789. Support server advertised kerberos principals (daryn)

HADOOP-8814. Replace string equals "" by String#isEmpty().

(Brandon Li via suresh)

HADOOP-9802. Support Snappy codec on Windows. (cnauroth)

HADOOP-9879. Move the version info of zookeeper dependencies to

hadoop-project/pom (Karthik Kambatla via Sandy Ryza)

HADOOP-9886. Turn warning message in RetryInvocationHandler to debug (arpit)

HADOOP-9906. Move HAZKUtil to o.a.h.util.ZKUtil and make inner-classes

public (Karthik Kambatla via Sandy Ryza)

HADOOP-9918. Add addIfService to CompositeService (Karthik Kambatla via

Sandy Ryza)

HADOOP-9945. HAServiceState should have a state for stopped services.

(Karthik Kambatla via atm)

HADOOP-9962. in order to avoid dependency divergence within Hadoop itself

lets enable DependencyConvergence. (rvs via tucu)

HADOOP-9669. Reduce the number of byte array creations and copies in

XDR data manipulation. (Haohui Mai via brandonli)

OPTIMIZATIONS

BUG FIXES

HADOOP-9916. Fix race in ipc.Client retry. (Binglin Chang via llu)

HADOOP-9768. chown and chgrp reject users and groups with spaces on platforms

where spaces are otherwise acceptable. (cnauroth)

HADOOP-9801. Configuration#writeXml uses platform defaulting encoding, which

may mishandle multi-byte characters. (cnauroth)

HADOOP-9806 PortmapInterface should check if the procedure is out-of-range

(brandonli)

HADOOP-9527. Add symlink support to LocalFileSystem on Windows.

(Arpit Agarwal via cnauroth)

HADOOP-9315. Port HADOOP-9249 hadoop-maven-plugins Clover fix to branch-2 to

fix build failures. (Dennis Y via cnauroth)

HADOOP-9831. Make checknative shell command accessible on Windows. (cnauroth)

HADOOP-9675. use svn:eol-style native for html to prevent line ending

issues (Colin Patrick McCabe)

HADOOP-9757. Har metadata cache can grow without limit (Cristina Abad via daryn)

HADOOP-9858. Remove unused private RawLocalFileSystem#execCommand method from

branch-2. (cnauroth)

HADOOP-9857. Tests block and sometimes timeout on Windows due to invalid

entropy source. (cnauroth)

HADOOP-9381. Document dfs cp -f option. (Keegan Witt, suresh via suresh)

HADOOP-9868. Server must not advertise kerberos realm. (daryn via kihwal)

HADOOP-9880. SASL changes from HADOOP-9421 breaks Secure HA NN. (daryn via

jing9)

HADOOP-9887. globStatus does not correctly handle paths starting with a drive

spec on Windows. (Chuan Liu via cnauroth)

HADOOP-9899. Remove the debug message, added by HADOOP-8855, from

KerberosAuthenticator. (szetszwo)

HADOOP-9894. Race condition in Shell leads to logged error stream handling

exceptions (Arpit Agarwal)

HADOOP-9774. RawLocalFileSystem.listStatus() return absolute paths when

input path is relative on Windows. (Shanyu Zhao via ivanmi)

HADOOP-9924. FileUtil.createJarWithClassPath() does not generate relative

classpath correctly. (Shanyu Zhao via ivanmi)

HADOOP-9932. Improper synchronization in RetryCache. (kihwal)

HADOOP-9958. Add old constructor back to DelegationTokenInformation to

unbreak downstream builds. (Andrew Wang)

HADOOP-9960. Upgrade Jersey version to 1.9. (Karthik Kambatla via atm)

HADOOP-9557. hadoop-client excludes commons-httpclient. (Lohit Vijayarenu via

cnauroth)

HADOOP-9350. Hadoop not building against Java7 on OSX

(Robert Kanter via stevel)

HADOOP-9961. versions of a few transitive dependencies diverged between hadoop

subprojects. (rvs via tucu)

HADOOP-9977. Hadoop services won't start with different keypass and

keystorepass when https is enabled. (cnauroth)

HADOOP-10005. No need to check INFO severity level is enabled or not.

(Jackie Chang via suresh)

Release 2.1.0-beta - 2013-08-22

INCOMPATIBLE CHANGES

HADOOP-8886. Remove KFS support. (eli)

HADOOP-9163. [RPC v9] The rpc msg in ProtobufRpcEngine.proto should be moved out to

avoid an extra copy (Sanjay Radia)

HADOOP-9151. [RPC v9] Include RPC error info in RpcResponseHeader instead of sending

it separately (sanjay Radia)

HADOOP-9380. [RPC v9] Add totalLength to rpc response (sanjay Radia)

HADOOP-9425. [RPC v9] Add error codes to rpc-response (sanjay Radia)

HADOOP-9194. [RPC v9] RPC support for QoS. (Junping Du via llu)

HADOOP-9630. [RPC v9] Remove IpcSerializationType. (Junping Du via llu)

HADOOP-9421. [RPC v9] Convert SASL to use ProtoBuf and provide

negotiation capabilities (daryn)

HADOOP-9688. Add globally unique Client ID to RPC requests. (suresh)

HADOOP-9683. [RPC v9] Wrap IpcConnectionContext in RPC headers (daryn)

HADOOP-9698. [RPC v9] Client must honor server's SASL negotiate response (daryn)

HADOOP-9832. [RPC v9] Add RPC header to client ping (daryn)

HADOOP-9820. [RPC v9] Wire protocol is insufficient to support multiplexing. (daryn via jitendra)

NEW FEATURES

HADOOP-9283. Add support for running the Hadoop client on AIX. (atm)

HADOOP-8415. Add getDouble() and setDouble() in

org.apache.hadoop.conf.Configuration (Jan van der Lugt via harsh)

HADOOP-9338. FsShell Copy Commands Should Optionally Preserve File

Attributes. (Nick White via atm)

HADOOP-8562. Enhancements to support Hadoop on Windows Server and Windows

Azure environments. (See breakdown of tasks below for subtasks and

contributors)

HADOOP-8469. Make NetworkTopology class pluggable. (Junping Du via

szetszwo)

HADOOP-8470. Add NetworkTopologyWithNodeGroup, a 4-layer implementation

of NetworkTopology. (Junping Du via szetszwo)

HADOOP-9763. Extends LightWeightGSet to support eviction of expired

elements. (Tsz Wo (Nicholas) SZE via jing9)

HADOOP-9762. RetryCache utility for implementing RPC retries.

(Suresh Srinivas via jing9)

HADOOP-9792. Retry the methods that are tagged @AtMostOnce along

with @Idempotent. (suresh)

HADOOP-9509. Implement ONCRPC and XDR. (brandonli)

HADOOP-9515. Add general interface for NFS and Mount. (brandonli)

IMPROVEMENTS

HADOOP-9164. Print paths of loaded native libraries in

NativeLibraryChecker. (Binglin Chang via llu)

HADOOP-9253. Capture ulimit info in the logs at service start time.

(Arpit Gupta via suresh)

HADOOP-8924. Add maven plugin alternative to shell script to save

package-info.java. (Chris Nauroth via suresh)

HADOOP-9117. replace protoc ant plugin exec with a maven plugin. (tucu)

HADOOP-9279. Document the need to build hadoop-maven-plugins for

eclipse and separate project builds. (Tsuyoshi Ozawa via suresh)

HADOOP-9334. Upgrade netty version. (Nicolas Liochon via suresh)

HADOOP-9343. Allow additional exceptions through the RPC layer. (sseth)

HADOOP-9318. When exiting on a signal, print the signal name first. (Colin

Patrick McCabe via atm)

HADOOP-9358. "Auth failed" log should include exception string (todd)

HADOOP-9401. CodecPool: Add counters for number of (de)compressors

leased out. (kkambatl via tucu)

HADOOP-9450. HADOOP\_USER\_CLASSPATH\_FIRST is not honored; CLASSPATH

is PREpended instead of APpended. (Chris Nauroth and harsh via harsh)

HADOOP-9496. Bad merge of HADOOP-9450 on branch-2 breaks all bin/hadoop

calls that need HADOOP\_CLASSPATH. (harsh)

HADOOP-9503. Remove sleep between IPC client connect timeouts.

(Varun Sharma via szetszwo)

HADOOP-9322. LdapGroupsMapping doesn't seem to set a timeout for

its directory search. (harsh)

HADOOP-9523. Provide a generic IBM java vendor flag in PlatformName.java

to support non-Sun JREs. (Tian Hong Wang via suresh)

HADOOP-9511. Adding support for additional input streams (FSDataInputStream

and RandomAccessFile) in SecureIOUtils so as to help YARN-578. (Omkar Vinit

Joshi via vinodkv)

HADOOP-9560. metrics2#JvmMetrics should have max memory size of JVM.

(Tsuyoshi Ozawa via suresh)

HADOOP-9140 Cleanup rpc PB protos (sanjay Radia)

HADOOP-9218 Document the Rpc-wrappers used internally (sanjay Radia)

HADOOP-9574. Added new methods in AbstractDelegationTokenSecretManager for

helping YARN ResourceManager to reuse code for RM restart. (Jian He via

vinodkv)

HADOOP-7391 Document Interface Classification from HADOOP-5073 (sanjay Radia)

HADOOP-9287. Parallel-testing hadoop-common (Andrey Klochkov via jlowe)

HADOOP-9604. Javadoc of FSDataOutputStream is slightly inaccurate. (Jingguo

Yao via atm)

HADOOP-9625. HADOOP\_OPTS not picked up by hadoop command.

(Paul Han via arpit)

HADOOP-9649. Promoted YARN service life-cycle libraries into Hadoop Common

for usage across all Hadoop projects. (Zhijie Shen via vinodkv)

HADOOP-9517. Documented various aspects of compatibility for Apache

Hadoop. (Karthik Kambatla via acmurthy)

HADOOP-8608. Add Configuration API for parsing time durations. (cdouglas)

HADOOP-9619 Mark stability of .proto files (sanjay Radia)

HADOOP-9676. Make maximum RPC buffer size configurable (Colin Patrick

McCabe)

HADOOP-9691. RPC clients can generate call ID using AtomicInteger instead of

synchronizing on the Client instance. (cnauroth)

HADOOP-9661. Allow metrics sources to be extended. (sandyr via tucu)

HADOOP-9370. Write FSWrapper class to wrap FileSystem and FileContext for

better test coverage. (Andrew Wang via Colin Patrick McCabe)

HADOOP-9355. Abstract symlink tests to use either FileContext or

FileSystem. (Andrew Wang via Colin Patrick McCabe)

HADOOP-9673. NetworkTopology: when a node can't be added, print out its

location for diagnostic purposes. (Colin Patrick McCabe)

HADOOP-9414. Refactor out FSLinkResolver and relevant helper methods.

(Andrew Wang via Colin Patrick McCabe)

HADOOP-9416. Add new symlink resolution methods in FileSystem and

FileSystemLinkResolver. (Andrew Wang via Colin Patrick McCabe)

HADOOP-9720. Rename Client#uuid to Client#clientId. (Arpit Agarwal via

suresh)

HADOOP-9734. Common protobuf definitions for GetUserMappingsProtocol,

RefreshAuthorizationPolicyProtocol and RefreshUserMappingsProtocol (jlowe)

HADOOP-9716. Rpc retries should use the same call ID as the original call.

(szetszwo)

HADOOP-9717. Add retry attempt count to the RPC requests. (jing9)

HADOOP-9751. Add clientId and retryCount to RpcResponseHeaderProto.

(szetszwo)

HADOOP-9754. Remove unnecessary "throws IOException/InterruptedException",

and fix generic and other javac warnings. (szetszwo)

HADOOP-9760. Move GSet and related classes to common from HDFS.

(suresh)

HADOOP-9756. Remove the deprecated getServer(..) methods from RPC.

(Junping Du via szetszwo)

HADOOP-9770. Make RetryCache#state non volatile. (suresh)

HADOOP-9786. RetryInvocationHandler#isRpcInvocation should support

ProtocolTranslator. (suresh and jing9)

HADOOP-9847. TestGlobPath symlink tests fail to cleanup properly.

(cmccabe via wang)

OPTIMIZATIONS

HADOOP-9150. Avoid unnecessary DNS resolution attempts for logical URIs

(todd)

HADOOP-9845. Update protobuf to 2.5 from 2.4.x. (tucu)

HADOOP-9872. Improve protoc version handling and detection. (tucu)

BUG FIXES

HADOOP-9451. Fault single-layer config if node group topology is enabled.

(Junping Du via llu)

HADOOP-9294. GetGroupsTestBase fails on Windows. (Chris Nauroth via suresh)

HADOOP-9305. Add support for running the Hadoop client on 64-bit AIX. (atm)

HADOOP-9245. mvn clean without running mvn install before fails.

(Karthik Kambatla via suresh)

HADOOP-9246 Execution phase for hadoop-maven-plugin should be

process-resources (Karthik Kambatla and Chris Nauroth via jlowe)

HADOOP-9297. remove old record IO generation and tests. (tucu)

HADOOP-9154. SortedMapWritable#putAll() doesn't add key/value classes to

the map. (Karthik Kambatla via tomwhite)

HADOOP-9304. remove addition of avro genreated-sources dirs to build. (tucu)

HADOOP-9267. hadoop -help, -h, --help should show usage instructions.

(Andrew Wang via atm)

HADOOP-8569. CMakeLists.txt: define \_GNU\_SOURCE and \_LARGEFILE\_SOURCE.

(Colin Patrick McCabe via atm)

HADOOP-9323. Fix typos in API documentation. (suresh)

HADOOP-7487. DF should throw a more reasonable exception when mount cannot

be determined. (Andrew Wang via atm)

HADOOP-8917. add LOCALE.US to toLowerCase in SecurityUtil.replacePattern.

(Arpit Gupta via suresh)

HADOOP-9342. Remove jline from distribution. (thw via tucu)

HADOOP-9230. TestUniformSizeInputFormat fails intermittently.

(kkambatl via tucu)

HADOOP-9349. Confusing output when running hadoop version from one hadoop

installation when HADOOP\_HOME points to another. (sandyr via tucu)

HADOOP-9337. org.apache.hadoop.fs.DF.getMount() does not work on Mac OS.

(Ivan A. Veselovsky via atm)

HADOOP-9369. DNS#reverseDns() can return hostname with . appended at the

end. (Karthik Kambatla via atm)

HADOOP-9379. capture the ulimit info after printing the log to the

console. (Arpit Gupta via suresh)

HADOOP-9399. protoc maven plugin doesn't work on mvn 3.0.2 (todd)

HADOOP-9407. commons-daemon 1.0.3 dependency has bad group id causing

build issues. (Sangjin Lee via suresh)

HADOOP-9405. TestGridmixSummary#testExecutionSummarizer is broken. (Andrew

Wang via atm)

HADOOP-9430. TestSSLFactory fails on IBM JVM. (Amir Sanjar via suresh)

HADOOP-9125. LdapGroupsMapping threw CommunicationException after some

idle time. (Kai Zheng via atm)

HADOOP-9429. TestConfiguration fails with IBM JAVA. (Amir Sanjar via

suresh)

HADOOP-9222. Cover package with org.apache.hadoop.io.lz4 unit tests (Vadim

Bondarev via jlowe)

HADOOP-9233. Cover package org.apache.hadoop.io.compress.zlib with unit

tests (Vadim Bondarev via jlowe)

HADOOP-9211. Set default max heap size in HADOOP\_CLIENT\_OPTS to 512m

in order to avoid OOME. (Plamen Jeliazkov via shv)

HADOOP-9473. Typo in FileUtil copy() method. (Glen Mazza via suresh)

HADOOP-9504. MetricsDynamicMBeanBase has concurrency issues in

createMBeanInfo (Liang Xie via jlowe)

HADOOP-9455. HADOOP\_CLIENT\_OPTS appended twice causes JVM failures.

(Chris Nauroth via suresh)

HADOOP-9550. Remove aspectj dependency. (kkambatl via tucu)

HADOOP-9549. WebHdfsFileSystem hangs on close(). (daryn via kihwal)

HADOOP-9485. No default value in the code for

hadoop.rpc.socket.factory.class.default. (Colin Patrick McCabe via atm)

HADOOP-9459. ActiveStandbyElector can join election even before

Service HEALTHY, and results in null data at ActiveBreadCrumb.

(Vinay and todd via todd)

HADOOP-9307. BufferedFSInputStream.read returns wrong results

after certain seeks. (todd)

HADOOP-9220. Unnecessary transition to standby in ActiveStandbyElector.

(tom and todd via todd)

HADOOP-9563. Fix incompatibility introduced by HADOOP-9523.

(Tian Hong Wang via suresh)

HADOOP-9566. Performing direct read using libhdfs sometimes raises SIGPIPE

(which in turn throws SIGABRT) causing client crashes. (Colin Patrick

McCabe via atm)

HADOOP-9481. Broken conditional logic with HADOOP\_SNAPPY\_LIBRARY. (Vadim

Bondarev via atm)

HADOOP-9593. stack trace printed at ERROR for all yarn clients without

hadoop.home set (stevel)

HADOOP-8957. AbstractFileSystem#IsValidName should be overridden for

embedded file systems like ViewFs (Chris Nauroth via Sanjay Radia)

HADOOP-9607. Fixes in Javadoc build (Timothy St. Clair via cos)

HADOOP-9605. Update junit dependency. (Timothy St. Clair via cos)

HADOOP-9581. hadoop --config non-existent directory should result in error

(Ashwin Shankar via jlowe)

HADOOP-9638. Parallel test changes caused invalid test path for several HDFS

tests on Windows (Andrey Klochkov via cnauroth)

HADOOP-9632. TestShellCommandFencer will fail if there is a 'host' machine in

the network. (Chuan Liu via cnauroth)

HADOOP-9624. TestFSMainOperationsLocalFileSystem failed when the Hadoop test

root path has "X" in its name. (Xi Fang via cnauroth)

HADOOP-9439. JniBasedUnixGroupsMapping: fix some crash bugs (Colin Patrick

McCabe)

HADOOP-9656. Gridmix unit tests fail on Windows and Linux. (Chuan Liu via

cnauroth)

HADOOP-9707. Fix register lists for crc32c inline assembly. (todd via

kihwal)

HADOOP-9738. TestDistCh fails. (jing9 via kihwal)

HADOOP-9759. Add support for NativeCodeLoader#getLibraryName on Windows.

(Chuan Liu via cnauroth)

HADOOP-9773. TestLightWeightCache should not set size limit to zero when

testing it. (szetszwo)

HADOOP-9507. LocalFileSystem rename() is broken in some cases when

destination exists. (cnauroth)

HADOOP-9816. RPC Sasl QOP is broken (daryn)

HADOOP-9850. RPC kerberos errors don't trigger relogin. (daryn via kihwal)

BREAKDOWN OF HADOOP-8562 SUBTASKS AND RELATED JIRAS

HADOOP-8924. Hadoop Common creating package-info.java must not depend on

sh. (Chris Nauroth via suresh)

HADOOP-8945. Merge winutils from branch-1-win to branch-trunk-win.

(Bikas Saha, Chuan Liu, Giridharan Kesavan, Ivan Mitic, and Steve Maine

ported by Chris Nauroth via suresh)

HADOOP-8946. winutils: compile codebase during Maven build on

branch-trunk-win. (Chris Nauroth via suresh)

HADOOP-8947. Merge FileUtil and Shell changes from branch-1-win to

branch-trunk-win to enable initial test pass. (Raja Aluri, Davio Lao,

Sumadhur Reddy Bolli, Ahmed El Baz, Kanna Karanam, Chuan Liu,

Ivan Mitic, Chris Nauroth, and Bikas Saha via suresh)

HADOOP-8954. "stat" executable not found on Windows. (Bikas Saha, Ivan Mitic

ported by Chris Narouth via suresh)

HADOOP-8959. TestUserGroupInformation fails on Windows due to "id" executable

not found. (Bikas Saha, Ivan Mitic, ported by Chris Narouth via suresh)

HADOOP-8955. "chmod" executable not found on Windows.

(Chris Nauroth via suresh)

HADOOP-8960. TestMetricsServlet fails on Windows. (Ivan Mitic via suresh)

HADOOP-8961. GenericOptionsParser URI parsing failure on Windows.

(Ivan Mitic via suresh)

HADOOP-8949. Remove FileUtil.CygPathCommand dead code. (Chris Nauroth via

suresh)

HADOOP-8956. FileSystem.primitiveMkdir failures on Windows cause multiple

test suites to fail. (Chris Nauroth via suresh)

HADOOP-8978. TestTrash fails on Windows. (Chris Nauroth via suresh)

HADOOP-8979. TestHttpServer fails on Windows. (Chris Nauroth via suresh)

HADOOP-8953. Shell PathData parsing failures on Windows. (Arpit Agarwal via

suresh)

HADOOP-8975. TestFileContextResolveAfs fails on Windows. (Chris Nauroth via

suresh)

HADOOP-8977. Multiple FsShell test failures on Windows. (Chris Nauroth via

suresh)

HADOOP-9005. Merge hadoop cmd line scripts from branch-1-win. (David Lao,

Bikas Saha, Lauren Yang, Chuan Liu, Thejas M Nair and Ivan Mitic via suresh)

HADOOP-9008. Building hadoop tarball fails on Windows. (Chris Nauroth via

suresh)

HADOOP-9011. saveVersion.py does not include branch in version annotation.

(Chris Nauroth via suresh)

HADOOP-9110. winutils ls off-by-one error indexing MONTHS array can cause

access violation. (Chris Nauroth via suresh)

HADOOP-9056. Build native library on Windows. (Chuan Liu, Arpit Agarwal via

suresh)

HADOOP-9144. Fix findbugs warnings. (Chris Nauroth via suresh)

HADOOP-9081. Add TestWinUtils. (Chuan Liu, Ivan Mitic, Chris Nauroth,

and Bikas Saha via suresh)

HADOOP-9146. Fix sticky bit regression on branch-trunk-win.

(Chris Nauroth via suresh)

HADOOP-9266. Fix javac, findbugs, and release audit warnings on

branch-trunk-win. (Chris Nauroth via suresh)

HADOOP-9270. Remove a stale java comment from FileUtil. (Chris Nauroth via

szetszwo)

HADOOP-9271. Revert Python build scripts from branch-trunk-win.

(Chris Nauroth via suresh)

HADOOP-9313. Remove spurious mkdir from hadoop-config.cmd.

(Ivan Mitic via suresh)

HADOOP-9309. Test failures on Windows due to UnsatisfiedLinkError

in NativeCodeLoader#buildSupportsSnappy. (Arpit Agarwal via suresh)

HADOOP-9347. Add instructions to BUILDING.txt describing how to

build on Windows. (Chris Nauroth via suresh)

HADOOP-9348. Address TODO in winutils to add more command line usage

and examples. (Chris Nauroth via suresh)

HADOOP-9354. Windows native project files missing license headers.

(Chris Nauroth via suresh)

HADOOP-9356. Remove remaining references to cygwin/cygpath from scripts.

(Chris Nauroth via suresh)

HADOOP-9232. JniBasedUnixGroupsMappingWithFallback fails on Windows

with UnsatisfiedLinkError. (Ivan Mitic via suresh)

HADOOP-9368. Add timeouts to new tests in branch-trunk-win.

(Arpit Agarwal via suresh)

HADOOP-9373. Merge CHANGES.branch-trunk-win.txt to CHANGES.txt.

(suresh)

HADOOP-9372. Fix bad timeout annotations on tests.

(Arpit Agarwal via suresh)

HADOOP-9376. TestProxyUserFromEnv fails on a Windows domain joined machine.

(Ivan Mitic via suresh)

HADOOP-9365. TestHAZKUtil fails on Windows. (Ivan Mitic via suresh)

HADOOP-9364. PathData#expandAsGlob does not return correct results for

absolute paths on Windows. (Ivan Mitic via suresh)

HADOOP-8973. DiskChecker cannot reliably detect an inaccessible disk on

Windows with NTFS ACLs. (Chris Nauroth via suresh)

HADOOP-9388. TestFsShellCopy fails on Windows. (Ivan Mitic via suresh)

HADOOP-9387. Fix DF so that it won't execute a shell command on Windows

to compute the file system/mount point. (Ivan Mitic via szetszwo)

HADOOP-9353. Activate native-win maven profile by default on Windows.

(Arpit Agarwal via szetszwo)

HADOOP-9437. TestNativeIO#testRenameTo fails on Windows due to assumption

that POSIX errno is embedded in NativeIOException. (Chris Nauroth via

suresh)

HADOOP-9443. Port winutils static code analysis change to trunk.

(Chuan Liu via suresh)

HADOOP-9290. Some tests cannot load native library on windows.

(Chris Nauroth via suresh)

HADOOP-9500. TestUserGroupInformation#testGetServerSideGroups fails on

Windows due to failure to find winutils.exe. (Chris Nauroth via suresh)

HADOOP-9490. LocalFileSystem#reportChecksumFailure not closing the

checksum file handle before rename. (Ivan Mitic via suresh)

HADOOP-9524. Fix ShellCommandFencer to work on Windows.

(Arpit Agarwal via suresh)

HADOOP-9413. Add common utils for File#setReadable/Writable/Executable &

File#canRead/Write/Execute that work cross-platform. (Ivan Mitic via suresh)

HADOOP-9532. HADOOP\_CLIENT\_OPTS is appended twice by Windows cmd scripts.

(Chris Nauroth via suresh)

HADOOP-9043. Disallow in winutils creating symlinks with forwards slashes.

(Chris Nauroth and Arpit Agarwal via suresh)

HADOOP-9483. winutils support for readlink command.

(Arpit Agarwal via suresh)

HADOOP-9488. FileUtil#createJarWithClassPath only substitutes environment

variables from current process environment/does not support overriding

when launching new process (Chris Nauroth via bikas)

HADOOP-9556. disable HA tests on Windows that fail due to ZooKeeper client

connection management bug. (Chris Nauroth via suresh)

HADOOP-9553. TestAuthenticationToken fails on Windows.

(Arpit Agarwal via suresh)

HADOOP-9397. Incremental dist tar build fails. (Chris Nauroth via jlowe)

HADOOP-9131. Turn off TestLocalFileSystem#testListStatusWithColons on

Windows. (Chris Nauroth via suresh)

HADOOP-9526. TestShellCommandFencer and TestShell fail on Windows.

(Arpit Agarwal via suresh)

HADOOP-8982. TestSocketIOWithTimeout fails on Windows.

(Chris Nauroth via suresh)

HADOOP-8958. ViewFs:Non absolute mount name failures when running

multiple tests on Windows. (Chris Nauroth via suresh)

HADOOP-9599. hadoop-config.cmd doesn't set JAVA\_LIBRARY\_PATH correctly.

(Mostafa Elhemali via ivanmi)

HADOOP-9637. Adding Native Fstat for Windows as needed by YARN. (Chuan Liu

via cnauroth)

HADOOP-9264. Port change to use Java untar API on Windows from

branch-1-win to trunk. (Chris Nauroth via suresh)

HADOOP-9678. TestRPC#testStopsAllThreads intermittently fails on Windows.

(Ivan Mitic via cnauroth)

HADOOP-9681. FileUtil.unTarUsingJava() should close the InputStream upon

finishing. (Chuan Liu via cnauroth)

HADOOP-9665. Fixed BlockDecompressorStream#decompress to return -1 rather

than throw EOF at end of file. (Zhijie Shen via acmurthy)

HADOOP-8440. HarFileSystem.decodeHarURI fails for URIs whose host contains

numbers. (Ivan Mitic via cnauroth)

HADOOP-9643. org.apache.hadoop.security.SecurityUtil calls

toUpperCase(Locale.getDefault()) as well as toLowerCase(Locale.getDefault())

on hadoop.security.authentication value. (markrmiller@gmail.com via tucu)

HADOOP-9701. mvn site ambiguous links in hadoop-common. (kkambatl via tucu)

Release 2.0.6-alpha - 08/22/2013

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.0.5-alpha - 06/06/2013

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-9407. commons-daemon 1.0.3 dependency has bad group id causing

build issues. (Sangjin Lee via suresh)

Release 2.0.4-alpha - 2013-04-25

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-9467. Metrics2 record filter should check name as well as tags.

(Chris Nauroth and Ganeshan Iyler via llu)

HADOOP-9406. hadoop-client leaks dependency on JDK tools jar. (tucu)

HADOOP-9301. hadoop client servlet/jsp/jetty/tomcat JARs creating

conflicts in Oozie & HttpFS. (tucu)

HADOOP-9299. kerberos name resolution is kicking in even when kerberos

is not configured (daryn)

HADOOP-9408. misleading description for net.topology.table.file.name

property in core-default.xml. (rajeshbabu via suresh)

HADOOP-9444. Modify hadoop-policy.xml to replace unexpanded variables to a

default value of '\*'. (Roman Shaposhnik via vinodkv)

HADOOP-9471. hadoop-client wrongfully excludes jetty-util JAR,

breaking webhdfs. (tucu)

Release 2.0.3-alpha - 2013-02-06

INCOMPATIBLE CHANGES

HADOOP-8999. SASL negotiation is flawed (daryn)

NEW FEATURES

HADOOP-8561. Introduce HADOOP\_PROXY\_USER for secure impersonation in child

hadoop client processes. (Yu Gao via llu)

HADOOP-8597. Permit FsShell's text command to read Avro files.

(Ivan Vladimirov Ivanov via cutting)

HADOOP-9020. Add a SASL PLAIN server (daryn via bobby)

HADOOP-9090. Support on-demand publish of metrics. (Mostafa Elhemali via

suresh)

HADOOP-9054. Add AuthenticationHandler that uses Kerberos but allows for

an alternate form of authentication for browsers. (rkanter via tucu)

IMPROVEMENTS

HADOOP-8789. Tests setLevel(Level.OFF) should be Level.ERROR.

(Andy Isaacson via eli)

HADOOP-8755. Print thread dump when tests fail due to timeout. (Andrey

Klochkov via atm)

HADOOP-8806. libhadoop.so: dlopen should be better at locating

libsnappy.so, etc. (Colin Patrick McCabe via eli)

HADOOP-8812. ExitUtil#terminate should print Exception#toString. (eli)

HADOOP-8736. Add Builder for building RPC server. (Brandon Li via Suresh)

HDFS-3957. Change MutableQuantiles to use a shared thread for rolling

over metrics. (Andrew Wang via todd)

HADOOP-8851. Use -XX:+HeapDumpOnOutOfMemoryError JVM option in the forked

tests. (Ivan A. Veselovsky via atm)

HADOOP-8783. Improve RPC.Server's digest auth (daryn)

HADOOP-8889. Upgrade to Surefire 2.12.3 (todd)

HADOOP-8804. Improve Web UIs when the wildcard address is used.

(Senthil Kumar via eli)

HADOOP-8894. GenericTestUtils.waitFor should dump thread stacks on timeout

(todd)

HADOOP-8909. Hadoop Common Maven protoc calls must not depend on external

sh script. (Chris Nauroth via suresh)

HADOOP-8911. CRLF characters in source and text files.

(Raja Aluri via suresh)

HADOOP-8912. Add .gitattributes file to prevent CRLF and LF mismatches

for source and text files. (Raja Aluri via suresh)

HADOOP-8784. Improve IPC.Client's token use (daryn)

HADOOP-8929. Add toString, other improvements for SampleQuantiles (todd)

HADOOP-8922. Provide alternate JSONP output for JMXJsonServlet to allow

javascript in browser (Damien Hardy via bobby)

HADOOP-8931. Add Java version to startup message. (eli)

HADOOP-8925. Remove the packaging. (eli)

HADOOP-8985. Add namespace declarations in .proto files for languages

other than java. (Binglin Chan via suresh)

HADOOP-9009. Add SecurityUtil methods to get/set authentication method

(daryn via bobby)

HADOOP-9010. Map UGI authenticationMethod to RPC authMethod (daryn via

bobby)

HADOOP-9013. UGI should not hardcode loginUser's authenticationType (daryn

via bobby)

HADOOP-9014. Standardize creation of SaslRpcClients (daryn via bobby)

HADOOP-9015. Standardize creation of SaslRpcServers (daryn via bobby)

HADOOP-8860. Split MapReduce and YARN sections in documentation navigation.

(tomwhite via tucu)

HADOOP-9021. Enforce configured SASL method on the server (daryn via

bobby)

HADOO-8998. set Cache-Control no-cache header on all dynamic content. (tucu)

HADOOP-9035. Generalize setup of LoginContext (daryn via bobby)

HADOOP-9093. Move all the Exception in PathExceptions to o.a.h.fs package.

(suresh)

HADOOP-9042. Add a test for umask in FileSystemContractBaseTest.

(Colin McCabe via eli)

HADOOP-9127. Update documentation for ZooKeeper Failover Controller.

(Daisuke Kobayashi via atm)

HADOOP-9004. Allow security unit tests to use external KDC. (Stephen Chu

via suresh)

HADOOP-9147. Add missing fields to FIleStatus.toString.

(Jonathan Allen via suresh)

HADOOP-8427. Convert Forrest docs to APT, incremental. (adi2 via tucu)

HADOOP-9162. Add utility to check native library availability.

(Binglin Chang via suresh)

HADOOP-9173. Add security token protobuf definition to common and

use it in hdfs. (suresh)

HADOOP-9119. Add test to FileSystemContractBaseTest to verify integrity

of overwritten files. (Steve Loughran via suresh)

HADOOP-9192. Move token related request/response messages to common.

(suresh)

HADOOP-8712. Change default hadoop.security.group.mapping to

JniBasedUnixGroupsNetgroupMappingWithFallback (Robert Parker via todd)

HADOOP-9106. Allow configuration of IPC connect timeout.

(Rober Parker via suresh)

HADOOP-9216. CompressionCodecFactory#getCodecClasses should trim the

result of parsing by Configuration. (Tsuyoshi Ozawa via todd)

HADOOP-9231. Parametrize staging URL for the uniformity of

distributionManagement. (Konstantin Boudnik via suresh)

HADOOP-9276. Allow BoundedByteArrayOutputStream to be resettable.

(Arun Murthy via hitesh)

HADOOP-7688. Add servlet handler check in HttpServer.start().

(Uma Maheswara Rao G via szetszwo)

HADOOP-7886. Add toString to FileStatus. (SreeHari via jghoman)

OPTIMIZATIONS

HADOOP-8866. SampleQuantiles#query is O(N^2) instead of O(N). (Andrew Wang

via atm)

HADOOP-8926. hadoop.util.PureJavaCrc32 cache hit-ratio is low for static

data (Gopal V via bobby)

BUG FIXES

HADOOP-9041. FsUrlStreamHandlerFactory could cause an infinite loop in

FileSystem initialization. (Yanbo Liang and Radim Kolar via llu)

HADOOP-8418. Update UGI Principal classes name for running with

IBM JDK on 64 bits Windows. (Yu Gao via eyang)

HADOOP-8795. BASH tab completion doesn't look in PATH, assumes path to

executable is specified. (Sean Mackrory via atm)

HADOOP-8780. Update DeprecatedProperties apt file. (Ahmed Radwan via

tomwhite)

HADOOP-8833. fs -text should make sure to call inputstream.seek(0)

before using input stream. (tomwhite and harsh)

HADOOP-8791. Fix rm command documentation to indicte it deletes

files and not directories. (Jing Zhao via suresh)

HADOOP-8855. SSL-based image transfer does not work when Kerberos

is disabled. (todd via eli)

HADOOP-8616. ViewFS configuration requires a trailing slash. (Sandy Ryza

via atm)

HADOOP-8756. Fix SEGV when libsnappy is in java.library.path but

not LD\_LIBRARY\_PATH. (Colin Patrick McCabe via eli)

HADOOP-8881. FileBasedKeyStoresFactory initialization logging should

be debug not info. (tucu)

HADOOP-8913. hadoop-metrics2.properties should give units in comment

for sampling period. (Sandy Ryza via suresh)

HADOOP-8878. Uppercase namenode hostname causes hadoop dfs calls with

webhdfs filesystem and fsck to fail when security is on.

(Arpit Gupta via suresh)

HADOOP-8901. GZip and Snappy support may not work without unversioned

libraries (Colin Patrick McCabe via todd)

HADOOP-8883. Anonymous fallback in KerberosAuthenticator is broken.

(rkanter via tucu)

HADOOP-8900. BuiltInGzipDecompressor throws IOException - stored gzip size

doesn't match decompressed size. (Andy Isaacson via suresh)

HADOOP-8948. TestFileUtil.testGetDU fails on Windows due to incorrect

assumption of line separator. (Chris Nauroth via suresh)

HADOOP-8951. RunJar to fail with user-comprehensible error

message if jar missing. (stevel via suresh)

HADOOP-8713. TestRPCCompatibility fails intermittently with JDK7

(Trevor Robinson via tgraves)

HADOOP-9012. IPC Client sends wrong connection context (daryn via bobby)

HADOOP-7115. Add a cache for getpwuid\_r and getpwgid\_r calls (tucu)

HADOOP-6607. Add different variants of non caching HTTP headers. (tucu)

HADOOP-9049. DelegationTokenRenewer needs to be Singleton and FileSystems

should register/deregister to/from. (Karthik Kambatla via tomwhite)

HADOOP-9064. Augment DelegationTokenRenewer API to cancel the tokens on

calls to removeRenewAction. (kkambatl via tucu)

HADOOP-9103. UTF8 class does not properly decode Unicode characters

outside the basic multilingual plane. (todd)

HADOOP-9070. Kerberos SASL server cannot find kerberos key. (daryn via atm)

HADOOP-6762. Exception while doing RPC I/O closes channel

(Sam Rash and todd via todd)

HADOOP-9126. FormatZK and ZKFC startup can fail due to zkclient connection

establishment delay. (Rakesh R and todd via todd)

HADOOP-9113. o.a.h.fs.TestDelegationTokenRenewer is failing intermittently.

(Karthik Kambatla via eli)

HADOOP-9135. JniBasedUnixGroupsMappingWithFallback should log at debug

rather than info during fallback. (Colin Patrick McCabe via todd)

HADOOP-9152. HDFS can report negative DFS Used on clusters with very small

amounts of data. (Brock Noland via atm)

HADOOP-9153. Support createNonRecursive in ViewFileSystem.

(Sandy Ryza via tomwhite)

HADOOP-9181. Set daemon flag for HttpServer's QueuedThreadPool.

(Liang Xie via suresh)

HADOOP-9155. FsPermission should have different default value, 777 for

directory and 666 for file. (Binglin Chang via atm)

HADOOP-9183. Potential deadlock in ActiveStandbyElector. (tomwhite)

HADOOP-9203. RPCCallBenchmark should find a random available port.

(Andrew Purtell via suresh)

HADOOP-9178. src/main/conf is missing hadoop-policy.xml.

(Sandy Ryza via eli)

HADOOP-8816. HTTP Error 413 full HEAD if using kerberos authentication.

(moritzmoeller via tucu)

HADOOP-9212. Potential deadlock in FileSystem.Cache/IPC/UGI. (tomwhite)

HADOOP-8589 ViewFs tests fail when tests and home dirs are nested.

(sanjay Radia)

HADOOP-9193. hadoop script can inadvertently expand wildcard arguments

when delegating to hdfs script. (Andy Isaacson via todd)

HADOOP-9215. when using cmake-2.6, libhadoop.so doesn't get created

(only libhadoop.so.1.0.0) (Colin Patrick McCabe via todd)

HADOOP-8857. hadoop.http.authentication.signature.secret.file docs

should not state that secret is randomly generated. (tucu)

HADOOP-9190. packaging docs is broken. (Andy Isaacson via tgraves)

HADOOP-9221. Convert remaining xdocs to APT. (Andy Isaacson via atm)

HADOOP-8981. TestMetricsSystemImpl fails on Windows. (Xuan Gong via suresh)

HADOOP-9124. SortedMapWritable violates contract of Map interface for

equals() and hashCode(). (Surenkumar Nihalani via tomwhite)

HADOOP-9278. Fix the file handle leak in HarMetaData.parseMetaData() in

HarFileSystem. (Chris Nauroth via szetszwo)

HADOOP-9252. In StringUtils, humanReadableInt(..) has a race condition and

the synchronization of limitDecimalTo2(double) can be avoided. (szetszwo)

HADOOP-9260. Hadoop version may be not correct when starting name node or

data node. (Chris Nauroth via jlowe)

HADOOP-9289. FsShell rm -f fails for non-matching globs. (Daryn Sharp via

suresh)

Release 2.0.2-alpha - 2012-09-07

INCOMPATIBLE CHANGES

HADOOP-8388. Remove unused BlockLocation serialization.

(Colin Patrick McCabe via eli)

HADOOP-8689. Make trash a server side configuration option. (eli)

HADOOP-8710. Remove ability for users to easily run the trash emptire. (eli)

HADOOP-8794. Rename YARN\_HOME to HADOOP\_YARN\_HOME. (vinodkv via acmurthy)

NEW FEATURES

HDFS-3042. Automatic failover support for NameNode HA (todd)

(see dedicated section below for breakdown of subtasks)

HADOOP-8135. Add ByteBufferReadable interface to FSDataInputStream. (Henry

Robinson via atm)

HADOOP-8458. Add management hook to AuthenticationHandler to enable

delegation token operations support (tucu)

HADOOP-8465. hadoop-auth should support ephemeral authentication (tucu)

HADOOP-8644. AuthenticatedURL should be able to use SSLFactory. (tucu)

HADOOP-8581. add support for HTTPS to the web UIs. (tucu)

HADOOP-7754. Expose file descriptors from Hadoop-wrapped local

FileSystems (todd and ahmed via tucu)

HADOOP-8240. Add a new API to allow users to specify a checksum type

on FileSystem.create(..). (Kihwal Lee via szetszwo)

IMPROVEMENTS

HADOOP-8340. SNAPSHOT build versions should compare as less than their eventual

final release. (todd)

HADOOP-8361. Avoid out-of-memory problems when deserializing strings.

(Colin Patrick McCabe via eli)

HADOOP-8224. Don't hardcode hdfs.audit.logger in the scripts.

(Tomohiko Kinebuchi via eli)

HADOOP-8398. Cleanup BlockLocation. (eli)

HADOOP-8422. Deprecate FileSystem#getDefault\* and getServerDefault

methods that don't take a Path argument. (eli)

HADOOP-8323. Add javadoc and tests for Text.clear() behavior (harsh)

HADOOP-8358. Config-related WARN for dfs.web.ugi can be avoided. (harsh)

HADOOP-8450. Remove src/test/system. (eli)

HADOOP-8244. Improve comments on ByteBufferReadable.read. (Henry Robinson

via atm)

HADOOP-8368. Use CMake rather than autotools to build native code (ccccabe via tucu)

HADOOP-8524. Allow users to get source of a Configuration

parameter (harsh)

HADOOP-8449. hadoop fs -text fails with compressed sequence files

with the codec file extension (harsh)

HADOOP-6802. Remove FS\_CLIENT\_BUFFER\_DIR\_KEY = "fs.client.buffer.dir"

from CommonConfigurationKeys.java (not used, deprecated)

(Sho Shimauchi via harsh)

HADOOP-3450. Add tests to Local Directory Allocator for

asserting their URI-returning capability (Sho Shimauchi via harsh)

HADOOP-8463. hadoop.security.auth\_to\_local needs a key definition and doc.

(Madhukara Phatak via eli)

HADOOP-8533. Remove parallel call ununsed capability in RPC.

(Brandon Li via suresh)

HADOOP-8423. MapFile.Reader.get() crashes jvm or throws

EOFException on Snappy or LZO block-compressed data

(todd via harsh)

HADOOP-8541. Better high-percentile latency metrics. (Andrew Wang via atm)

HADOOP-8362. Improve exception message when Configuration.set() is

called with a null key or value. (Madhukara Phatak

and Suresh Srinivas via harsh)

HADOOP-7818. DiskChecker#checkDir should fail if the directory is

not executable. (Madhukara Phatak via harsh)

HADOOP-8531. SequenceFile Writer can throw out a better error if a

serializer or deserializer isn't available

(Madhukara Phatak via harsh)

HADOOP-8609. IPC server logs a useless message when shutting down socket.

(Jon Zuanich via atm)

HADOOP-8620. Add -Drequire.fuse and -Drequire.snappy. (Colin

Patrick McCabe via eli)

HADOOP-8687. Upgrade log4j to 1.2.17. (eli)

HADOOP-8278. Make sure components declare correct set of dependencies.

(tomwhite)

HADOOP-8700. Use enum to define the checksum constants in DataChecksum.

(szetszwo)

HADOOP-8686. Fix warnings in native code. (Colin Patrick McCabe via eli)

HADOOP-8239. Add subclasses of MD5MD5CRC32FileChecksum to support file

checksum with CRC32C. (Kihwal Lee via szetszwo)

HADOOP-8619. WritableComparator must implement no-arg constructor.

(Chris Douglas via Suresh)

HADOOP-8075. Lower native-hadoop library log from info to debug.

(Hızır Sefa İrken via eli)

HADOOP-8748. Refactor DFSClient retry utility methods to a new class

in org.apache.hadoop.io.retry. (Arun C Murthy via szetszwo)

HADOOP-8754. Deprecate all the RPC.getServer() variants. (Brandon Li

via szetszwo)

HADOOP-8801. ExitUtil#terminate should capture the exception stack trace. (eli)

HADOOP-8819. Incorrectly & is used instead of && in some file system

implementations. (Brandon Li via suresh)

HADOOP-7808. Port HADOOP-7510 - Add configurable option to use original

hostname in token instead of IP to allow server IP change.

(Daryn Sharp via suresh)

HADOOP-8367 Improve documentation of declaringClassProtocolName in

rpc headers. (Sanjay Radia)

HADOOP-8624. ProtobufRpcEngine should log all RPCs if TRACE logging is

enabled (todd)

BUG FIXES

HADOOP-8372. NetUtils.normalizeHostName() incorrectly handles hostname

starting with a numeric character. (Junping Du via suresh)

HADOOP-8393. hadoop-config.sh missing variable exports, causes Yarn jobs

to fail with ClassNotFoundException MRAppMaster. (phunt via tucu)

HADOOP-8316. Audit logging should be disabled by default. (eli)

HADOOP-8400. All commands warn "Kerberos krb5 configuration not found"

when security is not enabled. (tucu)

HADOOP-8406. CompressionCodecFactory.CODEC\_PROVIDERS iteration is

thread-unsafe (todd)

HADOOP-8287. etc/hadoop is missing hadoop-env.sh (eli)

HADOOP-8408. MR doesn't work with a non-default ViewFS mount table

and security enabled. (atm via eli)

HADOOP-8329. Build fails with Java 7. (eli)

HADOOP-8268. A few pom.xml across Hadoop project

may fail XML validation. (Radim Kolar via harsh)

HADOOP-8444. Fix the tests FSMainOperationsBaseTest.java and

FileContextMainOperationsBaseTest.java to avoid potential

test failure (Madhukara Phatak via harsh)

HADOOP-8452. DN logs backtrace when running under jsvc and /jmx is loaded

(Andy Isaacson via bobby)

HADOOP-8460. Document proper setting of HADOOP\_PID\_DIR and

HADOOP\_SECURE\_DN\_PID\_DIR (bobby)

HADOOP-8466. hadoop-client POM incorrectly excludes avro. (bmahe via tucu)

HADOOP-8481. update BUILDING.txt to talk about cmake rather than autotools.

(Colin Patrick McCabe via eli)

HADOOP-8485. Don't hardcode "Apache Hadoop 0.23" in the docs. (eli)

HADOOP-8488. test-patch.sh gives +1 even if the native build fails.

(Colin Patrick McCabe via eli)

HADOOP-8507. Avoid OOM while deserializing DelegationTokenIdentifer.

(Colin Patrick McCabe via eli)

HADOOP-8433. Don't set HADOOP\_LOG\_DIR in hadoop-env.sh.

(Brahma Reddy Battula via eli)

HADOOP-8509. JarFinder duplicate entry: META-INF/MANIFEST.MF exception (tucu)

HADOOP-8512. AuthenticatedURL should reset the Token when the server returns

other than OK on authentication (tucu)

HADOOP-8168. empty-string owners or groups causes {{MissingFormatWidthException}}

in o.a.h.fs.shell.Ls.ProcessPath() (ekoontz via tucu)

HADOOP-8438. hadoop-validate-setup.sh refers to examples jar file which doesn't exist

(Devaraj K via umamahesh)

HADOOP-8538. CMake builds fail on ARM. (Trevor Robinson via eli)

HADOOP-8547. Package hadoop-pipes examples/bin directory (again).

(Colin Patrick McCabe via eli)

HADOOP-8563. don't package hadoop-pipes examples/bin

(Colin Patrick McCabe via tgraves)

HADOOP-8566. AvroReflectSerializer.accept(Class) throws a NPE if the class has no

package (primitive types and arrays). (tucu)

HADOOP-8586. Fixup a bunch of SPNEGO misspellings. (eli)

HADOOP-3886. Error in javadoc of Reporter, Mapper and Progressable

(Jingguo Yao via harsh)

HADOOP-8587. HarFileSystem access of harMetaCache isn't threadsafe. (eli)

HADOOP-8585. Fix initialization circularity between UserGroupInformation

and HadoopConfiguration. (Colin Patrick McCabe via atm)

HADOOP-8552. Conflict: Same security.log.file for multiple users.

(kkambatl via tucu)

HADOOP-8537. Fix TFile tests to pass even when native zlib support is not

compiled. (todd)

HADOOP-8626. Typo in default setting for

hadoop.security.group.mapping.ldap.search.filter.user. (Jonathan Natkins

via atm)

HADOOP-8480. The native build should honor -DskipTests.

(Colin Patrick McCabe via eli)

HADOOP-8659. Native libraries must build with soft-float ABI for Oracle JVM

on ARM. (Trevor Robinson via todd)

HADOOP-8654. TextInputFormat delimiter bug (Gelesh and Jason Lowe via

bobby)

HADOOP-8614. IOUtils#skipFully hangs forever on EOF.

(Colin Patrick McCabe via eli)

HADOOP-8720. TestLocalFileSystem should use test root subdirectory.

(Vlad Rozov via eli)

HADOOP-8721. ZKFC should not retry 45 times when attempting a graceful

fence during a failover. (Vinayakumar B via atm)

HADOOP-8632. Configuration leaking class-loaders (Costin Leau via bobby)

HADOOP-4572. Can not access user logs - Jetty is not configured by default

to serve aliases/symlinks (ahmed via tucu)

HADOOP-8660. TestPseudoAuthenticator failing with NPE. (tucu)

HADOOP-8699. some common testcases create core-site.xml in test-classes

making other testcases to fail. (tucu)

HADOOP-8031. Configuration class fails to find embedded .jar resources;

should use URL.openStream() (genman via tucu)

HADOOP-8737. cmake: always use JAVA\_HOME to find libjvm.so, jni.h, jni\_md.h.

(Colin Patrick McCabe via eli)

HADOOP-8747. Syntax error on cmake version 2.6 patch 2 in JNIFlags.cmake. (cmccabe via tucu)

HADOOP-8722. Update BUILDING.txt with latest snappy info.

(Colin Patrick McCabe via eli)

HADOOP-8764. CMake: HADOOP-8737 broke ARM build. (Trevor Robinson via eli)

HADOOP-8770. NN should not RPC to self to find trash defaults. (eli)

HADOOP-8648. libhadoop: native CRC32 validation crashes when

io.bytes.per.checksum=1. (Colin Patrick McCabe via eli)

HADOOP-8766. FileContextMainOperationsBaseTest should randomize the root

dir. (Colin Patrick McCabe via atm)

HADOOP-8749. HADOOP-8031 changed the way in which relative xincludes are handled in

Configuration. (ahmed via tucu)

HADOOP-8431. Running distcp wo args throws IllegalArgumentException.

(Sandy Ryza via eli)

HADOOP-8775. MR2 distcp permits non-positive value to -bandwidth option

which causes job never to complete. (Sandy Ryza via atm)

HADOOP-8781. hadoop-config.sh should add JAVA\_LIBRARY\_PATH to LD\_LIBRARY\_PATH. (tucu)

BREAKDOWN OF HDFS-3042 SUBTASKS

HADOOP-8220. ZKFailoverController doesn't handle failure to become active

correctly (todd)

HADOOP-8228. Auto HA: Refactor tests and add stress tests. (todd)

HADOOP-8215. Security support for ZK Failover controller (todd)

HADOOP-8245. Fix flakiness in TestZKFailoverController (todd)

HADOOP-8257. TestZKFailoverControllerStress occasionally fails with Mockito

error (todd)

HADOOP-8260. Replace ClientBaseWithFixes with our own modified copy of the

class (todd)

HADOOP-8246. Auto-HA: automatically scope znode by nameservice ID (todd)

HADOOP-8247. Add a config to enable auto-HA, which disables manual

FailoverController (todd)

HADOOP-8306. ZKFC: improve error message when ZK is not running. (todd)

HADOOP-8279. Allow manual failover to be invoked when auto-failover is

enabled. (todd)

HADOOP-8276. Auto-HA: add config for java options to pass to zkfc daemon

(todd via eli)

HADOOP-8405. ZKFC tests leak ZK instances. (todd)

Release 2.0.0-alpha - 05-23-2012

INCOMPATIBLE CHANGES

HADOOP-7920. Remove Avro Rpc. (suresh)

NEW FEATURES

HADOOP-7773. Add support for protocol buffer based RPC engine.

(suresh)

HADOOP-7875. Add helper class to unwrap protobuf ServiceException.

(suresh)

HADOOP-7454. Common side of High Availability Framework (HDFS-1623)

Contributed by Todd Lipcon, Aaron T. Myers, Eli Collins, Uma Maheswara Rao G,

Bikas Saha, Suresh Srinivas, Jitendra Nath Pandey, Hari Mankude, Brandon Li,

Sanjay Radia, Mingjie Lai, and Gregory Chanan

HADOOP-8121. Active Directory Group Mapping Service. (Jonathan Natkins via

atm)

HADOOP-7030. Add TableMapping topology implementation to read host to rack

mapping from a file. (Patrick Angeles and tomwhite via tomwhite)

HADOOP-8206. Common portion of a ZK-based failover controller (todd)

HADOOP-8210. Common side of HDFS-3148: The client should be able

to use multiple local interfaces for data transfer. (eli)

HADOOP-8343. Allow configuration of authorization for JmxJsonServlet and

MetricsServlet (tucu)

IMPROVEMENTS

HADOOP-7524. Change RPC to allow multiple protocols including multuple

versions of the same protocol (sanjay Radia)

HADOOP-7607. Simplify the RPC proxy cleanup process. (atm)

HADOOP-7687. Make getProtocolSignature public (sanjay)

HADOOP-7693. Enhance AvroRpcEngine to support the new #addProtocol

interface introduced in HADOOP-7524. (cutting)

HADOOP-7716. RPC protocol registration on SS does not log the protocol name

(only the class which may be different) (sanjay)

HADOOP-7776. Make the Ipc-Header in a RPC-Payload an explicit header.

(sanjay)

HADOOP-7862. Move the support for multiple protocols to lower layer so

that Writable, PB and Avro can all use it (Sanjay)

HADOOP-7876. Provided access to encoded key in DelegationKey for

use in protobuf based RPCs. (suresh)

HADOOP-7899. Generate proto java files as part of the build. (tucu)

HADOOP-7957. Classes deriving GetGroupsBase should be able to override

proxy creation. (jitendra)

HADOOP-7965. Support for protocol version and signature in PB. (jitendra)

HADOOP-8070. Add a standalone benchmark for RPC call performance. (todd)

HADOOP-8084. Updates ProtoBufRpc engine to not do an unnecessary copy

for RPC request/response. (ddas)

HADOOP-8085. Add RPC metrics to ProtobufRpcEngine. (Hari Mankude via

suresh)

HADOOP-8098. KerberosAuthenticatorHandler should use \_HOST replacement to

resolve principal name (tucu)

HADOOP-8118. In metrics2.util.MBeans, change log level to trace for the

stack trace of InstanceAlreadyExistsException. (szetszwo)

HADOOP-8125. make hadoop-client set of curated jars available in a

distribution tarball (rvs via tucu)

HADOOP-7717. Move handling of concurrent client fail-overs to

RetryInvocationHandler (atm)

HADOOP-7728. Enable task memory management to be configurable in hadoop

config setup script. (ramya)

HADOOP-7358. Improve log levels when exceptions caught in RPC handler

(Todd Lipcon via shv)

HADOOP-7557 Make IPC header be extensible (sanjay radia)

HADOOP-7806. Support binding to sub-interfaces (eli)

HADOOP-6941. Adds support for building Hadoop with IBM's JDK

(Stephen Watt, Eli and ddas)

HADOOP-8183. Stop using "mapred.used.genericoptions.parser" (harsh)

HADOOP-6924. Adds a directory to the list of directories to search

for the libjvm.so file. The new directory is found by running a 'find'

command and the first output is taken. This was done to handle the

build of Hadoop with IBM's JDK. (Stephen Watt, Guillermo Cabrera and ddas)

HADOOP-8200. Remove HADOOP\_[JOBTRACKER|TASKTRACKER]\_OPTS. (eli)

HADOOP-8184. ProtoBuf RPC engine uses the IPC layer reply packet.

(Sanjay Radia via szetszwo)

HADOOP-8163. Improve ActiveStandbyElector to provide hooks for

fencing old active. (todd)

HADOOP-8193. Refactor FailoverController/HAAdmin code to add an abstract

class for "target" services. (todd)

HADOOP-8212. Improve ActiveStandbyElector's behavior when session expires

(todd)

HADOOP-8216. Address log4j.properties inconsistencies btw main and

template dirs. (Patrick Hunt via eli)

HADOOP-8149. Cap space usage of default log4j rolling policy.

(Patrick Hunt via eli)

HADOOP-8211. Update commons-net version to 3.1. (eli)

HADOOP-8236. haadmin should have configurable timeouts for failover

commands. (todd)

HADOOP-8242. AbstractDelegationTokenIdentifier: add getter methods

for owner and realuser. (Colin Patrick McCabe via eli)

HADOOP-8007. Use substitution tokens for fencing argument (todd)

HADOOP-8077. HA: fencing method should be able to be configured on

a per-NN or per-NS basis (todd)

HADOOP-8086. KerberosName silently sets defaultRealm to "" if the

Kerberos config is not found, it should log a WARN (tucu)

HADOOP-8280. Move VersionUtil/TestVersionUtil and GenericTestUtils from

HDFS into Common. (Ahmed Radwan via atm)

HADOOP-8117. Upgrade test build to Surefire 2.12 (todd)

HADOOP-8152. Expand public APIs for security library classes. (atm via eli)

HADOOP-7549. Use JDK ServiceLoader mechanism to find FileSystem implementations. (tucu)

HADOOP-8185. Update namenode -format documentation and add -nonInteractive

and -force. (Arpit Gupta via atm)

HADOOP-8214. make hadoop script recognize a full set of deprecated commands (rvs via tucu)

HADOOP-8347. Hadoop Common logs misspell 'successful'.

(Philip Zeyliger via eli)

HADOOP-8350. Improve NetUtils.getInputStream to return a stream which has

a tunable timeout. (todd)

HADOOP-8356. FileSystem service loading mechanism should print the FileSystem

impl it is failing to load (tucu)

HADOOP-8353. hadoop-daemon.sh and yarn-daemon.sh can be misleading on stop.

(Roman Shaposhnik via atm)

HADOOP-8113. Correction to BUILDING.txt: HDFS needs ProtocolBuffer, too

(not just MapReduce). Contributed by Eugene Koontz.

HADOOP-8285 Use ProtoBuf for RpcPayLoadHeader (sanjay radia)

HADOOP-8366 Use ProtoBuf for RpcResponseHeader (sanjay radia)

HADOOP-7729. Send back valid HTTP response if user hits IPC port with

HTTP GET. (todd)

HADOOP-7987. Support setting the run-as user in unsecure mode. (jitendra)

HADOOP-7994. Remove getProtocolVersion and getProtocolSignature from the

client side translator and server side implementation. (jitendra)

OPTIMIZATIONS

BUG FIXES

HADOOP-8199. Fix issues in start-all.sh and stop-all.sh (Devaraj K via umamahesh)

HADOOP-7635. RetryInvocationHandler should release underlying resources on

close. (atm)

HADOOP-7695. RPC.stopProxy can throw unintended exception while logging

error. (atm)

HADOOP-7833. Fix findbugs warnings in protobuf generated code.

(John Lee via suresh)

HADOOP-7897. ProtobufRpcEngine client side exception mechanism is not

consistent with WritableRpcEngine. (suresh)

HADOOP-7913. Fix bug in ProtoBufRpcEngine. (sanjay)

HADOOP-7892. IPC logs too verbose after "RpcKind" introduction. (todd)

HADOOP-7968. Errant println left in RPC.getHighestSupportedProtocol. (Sho

Shimauchi via harsh)

HADOOP-7931. o.a.h.ipc.WritableRpcEngine should have a way to force

initialization. (atm)

HADOOP-8104. Inconsistent Jackson versions (tucu)

HADOOP-8119. Fix javac warnings in TestAuthenticationFilter in hadoop-auth.

(szetszwo)

HADOOP-7888. TestFailoverProxy fails intermittently on trunk. (Jason Lowe

via atm)

HADOOP-8154. DNS#getIPs shouldn't silently return the local host

IP for bogus interface names. (eli)

HADOOP-8169. javadoc generation fails with java.lang.OutOfMemoryError:

Java heap space (tgraves via bobby)

HADOOP-8167. Configuration deprecation logic breaks backwards compatibility (tucu)

HADOOP-8189. LdapGroupsMapping shouldn't throw away IOException. (Jonathan Natkins via atm)

HADOOP-8191. SshFenceByTcpPort uses netcat incorrectly (todd)

HADOOP-8157. Fix race condition in Configuration that could cause spurious

ClassNotFoundExceptions after a GC. (todd)

HADOOP-8197. Configuration logs WARNs on every use of a deprecated key (tucu)

HADOOP-8159. NetworkTopology: getLeaf should check for invalid topologies.

(Colin Patrick McCabe via eli)

HADOOP-8204. TestHealthMonitor fails occasionally (todd)

HADOOP-8202. RPC stopProxy() does not close the proxy correctly.

(Hari Mankude via suresh)

HADOOP-8218. RPC.closeProxy shouldn't throw error when closing a mock

(todd)

HADOOP-8238. NetUtils#getHostNameOfIP blows up if given ip:port

string w/o port. (eli)

HADOOP-8243. Security support broken in CLI (manual) failover controller

(todd)

HADOOP-8251. Fix SecurityUtil.fetchServiceTicket after HADOOP-6941 (todd)

HADOOP-8249. invalid hadoop-auth cookies should trigger authentication

if info is avail before returning HTTP 401 (tucu)

HADOOP-8261. Har file system doesn't deal with FS URIs with a host but no

port. (atm)

HADOOP-8263. Stringification of IPC calls not useful (todd)

HADOOP-8264. Remove irritating double double quotes in front of hostname

(Bernd Fondermann via bobby)

HADOOP-8270. hadoop-daemon.sh stop action should return 0 for an

already stopped service. (Roman Shaposhnik via eli)

HADOOP-8144. pseudoSortByDistance in NetworkTopology doesn't work

properly if no local node and first node is local rack node.

(Junping Du)

HADOOP-8282. start-all.sh refers incorrectly start-dfs.sh

existence for starting start-yarn.sh. (Devaraj K via eli)

HADOOP-7350. Use ServiceLoader to discover compression codec classes.

(tomwhite)

HADOOP-8284. clover integration broken, also mapreduce poms are pulling

in clover as a dependency. (phunt via tucu)

HADOOP-8309. Pseudo & Kerberos AuthenticationHandler should use

getType() to create token (tucu)

HADOOP-8314. HttpServer#hasAdminAccess should return false if

authorization is enabled but user is not authenticated. (tucu)

HADOOP-8296. hadoop/yarn daemonlog usage wrong (Devaraj K via tgraves)

HADOOP-8310. FileContext#checkPath should handle URIs with no port. (atm)

HADOOP-8321. TestUrlStreamHandler fails. (tucu)

HADOOP-8325. Add a ShutdownHookManager to be used by different

components instead of the JVM shutdownhook (tucu)

HADOOP-8275. Range check DelegationKey length.

(Colin Patrick McCabe via eli)

HADOOP-8342. HDFS command fails with exception following merge of

HADOOP-8325 (tucu)

HADOOP-8346. Makes oid changes to make SPNEGO work. Was broken due

to fixes introduced by the IBM JDK compatibility patch. (ddas)

HADOOP-8355. SPNEGO filter throws/logs exception when authentication fails (tucu)

HADOOP-8349. ViewFS doesn't work when the root of a file system is mounted. (atm)

HADOOP-8328. Duplicate FileSystem Statistics object for 'file' scheme.

(tomwhite)

HADOOP-8359. Fix javadoc warnings in Configuration. (Anupam Seth via

szetszwo)

HADOOP-7988. Upper case in hostname part of the principals doesn't work with

kerberos. (jitendra)

BREAKDOWN OF HADOOP-7454 SUBTASKS

HADOOP-7455. HA: Introduce HA Service Protocol Interface. (suresh)

HADOOP-7774. HA: Administrative CLI to control HA daemons. (todd)

HADOOP-7896. HA: if both NNs are in Standby mode, client needs to try failing

back and forth several times with sleeps. (atm)

HADOOP-7922. Improve some logging for client IPC failovers and

StandbyExceptions (todd)

HADOOP-7921. StandbyException should extend IOException (todd)

HADOOP-7928. HA: Client failover policy is incorrectly trying to fail over all

IOExceptions (atm)

HADOOP-7925. Add interface and update CLI to query current state to

HAServiceProtocol (eli via todd)

HADOOP-7932. Make client connection retries on socket time outs configurable.

(Uma Maheswara Rao G via todd)

HADOOP-7924. FailoverController for client-based configuration (eli)

HADOOP-7961. Move HA fencing to common. (eli)

HADOOP-7970. HAServiceProtocol methods must throw IOException. (Hari Mankude

via suresh).

HADOOP-7992. Add ZKClient library to facilitate leader election. (Bikas Saha

via suresh).

HADOOP-7983. HA: failover should be able to pass args to fencers. (eli)

HADOOP-7938. HA: the FailoverController should optionally fence the active

during failover. (eli)

HADOOP-7991. HA: the FailoverController should check the standby is ready

before failing over. (eli)

HADOOP-8038. Add 'ipc.client.connect.max.retries.on.timeouts' entry in

core-default.xml file. (Uma Maheswara Rao G via atm)

HADOOP-8041. Log a warning when a failover is first attempted (todd)

HADOOP-8068. void methods can swallow exceptions when going through failover

path (todd)

HADOOP-8116. RetriableCommand is using RetryPolicy incorrectly after

HADOOP-7896. (atm)

HADOOP-8317. Update maven-assembly-plugin to 2.3 - fix build on FreeBSD

(Radim Kolar via bobby)

HADOOP-8172. Configuration no longer sets all keys in a deprecated key

list. (Anupam Seth via bobby)

HADOOP-7868. Hadoop native fails to compile when default linker

option is -Wl,--as-needed. (Trevor Robinson via eli)

HADOOP-8655. Fix TextInputFormat for large deliminators. (Gelesh via

bobby)

HADOOP-7900. LocalDirAllocator confChanged() accesses conf.get() twice

(Ravi Gummadi via Uma Maheswara Rao G)

HADOOP-8146. FsShell commands cannot be interrupted

(Daryn Sharp via Uma Maheswara Rao G)

HADOOP-8018. Hudson auto test for HDFS has started throwing javadoc

(Jon Eagles via bobby)

HADOOP-8001 ChecksumFileSystem's rename doesn't correctly handle checksum

files. (Daryn Sharp via bobby)

HADOOP-8006 TestFSInputChecker is failing in trunk.

(Daryn Sharp via bobby)

HADOOP-7998. CheckFileSystem does not correctly honor setVerifyChecksum

(Daryn Sharp via bobby)

HADOOP-7606. Upgrade Jackson to version 1.7.1 to match the version required

by Jersey (Alejandro Abdelnur via atm)

Release 0.23.11 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-10129. Distcp may succeed when it fails (daryn)

HADOOP-10332. HttpServer's jetty audit log always logs 200 OK (jeagles)

HADOOP-8826. Docs still refer to 0.20.205 as stable line (Mit Desai via

jeagles)

Release 0.23.10 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-9686. Easy access to final parameters in Configuration (Jason Lowe

via jeagles)

HADOOP-8704. add request logging to jetty/httpserver (jeagles)

OPTIMIZATIONS

HADOOP-9956. RPC listener inefficiently assigns connections to readers (daryn)

HADOOP-9955. RPC idle connection closing is extremely inefficient (daryn)

BUG FIXES

Release 0.23.9 - 2013-07-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-9581. hadoop --config non-existent directory should result in error

(Ashwin Shankar via jlowe)

HADOOP-9582. Non-existent file to "hadoop fs -conf" doesn't throw error

(Ashwin Shankar via jlowe)

Release 0.23.8 - 2013-06-05

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-9222. Cover package with org.apache.hadoop.io.lz4 unit tests (Vadim

Bondarev via jlowe)

HADOOP-9233. Cover package org.apache.hadoop.io.compress.zlib with unit

tests (Vadim Bondarev via jlowe)

HADOOP-9469. mapreduce/yarn source jars not included in dist tarball

(Robert Parker via tgraves)

HADOOP-9504. MetricsDynamicMBeanBase has concurrency issues in

createMBeanInfo (Liang Xie via jlowe)

HADOOP-9614. smart-test-patch.sh hangs for new version of patch (2.7.1)

(Ravi Prakash via jeagles)

Release 0.23.7 - 2013-04-18

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-8849. FileUtil#fullyDelete should grant the target directories +rwx

permissions (Ivan A. Veselovsky via bobby)

HADOOP-9067. provide test for LocalFileSystem.reportChecksumFailure

(Ivan A. Veselovsky via bobby)

HADOOP-9336. Allow UGI of current connection to be queried. (Daryn Sharp

via kihwal)

HADOOP-9352. Expose UGI.setLoginUser for tests (daryn)

HADOOP-9209. Add shell command to dump file checksums (Todd Lipcon via

jeagles)

HADOOP-9374. Add tokens from -tokenCacheFile into UGI (daryn)

HADOOP-8711. IPC Server supports adding exceptions for which

the message is printed and the stack trace is not printed to avoid chatter.

(Brandon Li via Suresh)

OPTIMIZATIONS

HADOOP-8462. Native-code implementation of bzip2 codec. (Govind Kamat via

jlowe)

BUG FIXES

HADOOP-9302. HDFS docs not linked from top level (Andy Isaacson via

tgraves)

HADOOP-9303. command manual dfsadmin missing entry for restoreFailedStorage

option (Andy Isaacson via tgraves)

HADOOP-9339. IPC.Server incorrectly sets UGI auth type (Daryn Sharp via

kihwal)

Release 0.23.6 - 2013-02-06

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-9217. Print thread dumps when hadoop-common tests fail.

(Andrey Klochkov via suresh)

HADOOP-9247. Parametrize Clover "generateXxx" properties to make them

re-definable via -D in mvn calls. (Ivan A. Veselovsky via suresh)

OPTIMIZATIONS

BUG FIXES

HADOOP-9072. Hadoop-Common-0.23-Build Fails to build in Jenkins

(Robert Parker via tgraves)

HADOOP-8992. Enhance unit-test coverage of class HarFileSystem (Ivan A.

Veselovsky via bobby)

HADOOP-9038. unit-tests for AllocatorPerContext.PathIterator (Ivan A.

Veselovsky via bobby)

HADOOP-9105. FsShell -moveFromLocal erroneously fails (daryn via bobby)

HADOOP-9097. Maven RAT plugin is not checking all source files (tgraves)

HADOOP-9255. relnotes.py missing last jira (tgraves)

Release 0.23.5 - 2012-11-28

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-8932. JNI-based user-group mapping modules can be too chatty on

lookup failures. (Kihwal Lee via suresh)

HADOOP-8930. Cumulative code coverage calculation (Andrey Klochkov via

bobby)

OPTIMIZATIONS

BUG FIXES

HADOOP-8906. paths with multiple globs are unreliable. (Daryn Sharp via

jlowe)

HADOOP-8811. Compile hadoop native library in FreeBSD (Radim Kolar via

bobby)

HADOOP-8962. RawLocalFileSystem.listStatus fails when a child filename

contains a colon (jlowe via bobby)

HADOOP-8986. Server$Call object is never released after it is sent (bobby)

HADOOP-9022. Hadoop distcp tool fails to copy file if -m 0 specified

(Jonathan Eagles vai bobby)

HADOOP-9025. org.apache.hadoop.tools.TestCopyListing failing (Jonathan

Eagles via jlowe)

Release 0.23.4

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-8822. relnotes.py was deleted post mavenization (bobby)

OPTIMIZATIONS

BUG FIXES

HADOOP-8843. Old trash directories are never deleted on upgrade

from 1.x (jlowe)

HADOOP-8684. Deadlock between WritableComparator and WritableComparable.

(Jing Zhao via suresh)

Release 0.23.3

INCOMPATIBLE CHANGES

HADOOP-7967. Need generalized multi-token filesystem support (daryn)

NEW FEATURES

IMPROVEMENTS

HADOOP-8108. Move method getHostPortString() from NameNode to NetUtils.

(Brandon Li via jitendra)

HADOOP-8288. Remove references of mapred.child.ulimit etc. since they are

not being used any more (Ravi Prakash via bobby)

HADOOP-8535. Cut hadoop build times in half (Job Eagles via bobby)

HADOOP-8525. Provide Improved Traceability for Configuration (bobby)

OPTIMIZATIONS

BUG FIXES

HADOOP-8088. User-group mapping cache incorrectly does negative caching on

transient failures (Khiwal Lee via bobby)

HADOOP-8179. risk of NPE in CopyCommands processArguments() (Daryn Sharp

via bobby)

HADOOP-6963. In FileUtil.getDU(..), neither include the size of directories

nor follow symbolic links. (Ravi Prakash via szetszwo)

HADOOP-8180. Remove hsqldb since its not needed from pom.xml (Ravi Prakash

via tgraves)

HADOOP-8014. ViewFileSystem does not correctly implement getDefaultBlockSize,

getDefaultReplication, getContentSummary (John George via bobby)

HADOOP-7510. Tokens should use original hostname provided instead of ip

(Daryn Sharp via bobby)

HADOOP-8283. Allow tests to control token service value (Daryn Sharp via

bobby)

HADOOP-8286. Simplify getting a socket address from conf (Daryn Sharp via

bobby)

HADOOP-8227. Allow RPC to limit ephemeral port range. (bobby)

HADOOP-8305. distcp over viewfs is broken (John George via bobby)

HADOOP-8334. HttpServer sometimes returns incorrect port (Daryn Sharp via

bobby)

HADOOP-8330. Update TestSequenceFile.testCreateUsesFsArg() for HADOOP-8305.

(John George via szetszwo)

HADOOP-8335. Improve Configuration's address handling (Daryn Sharp via

bobby)

HADOOP-8327. distcpv2 and distcpv1 jars should not coexist (Dave Thompson

via bobby)

HADOOP-8341. Fix or filter findbugs issues in hadoop-tools (bobby)

HADOOP-8373. Port RPC.getServerAddress to 0.23 (Daryn Sharp via bobby)

HADOOP-8495. Update Netty to avoid leaking file descriptors during shuffle

(Jason Lowe via tgraves)

HADOOP-8129. ViewFileSystemTestSetup setupForViewFileSystem is erring

(Ahmed Radwan and Ravi Prakash via bobby)

HADOOP-8573. Configuration tries to read from an inputstream resource

multiple times (Robert Evans via tgraves)

HADOOP-8599. Non empty response from FileSystem.getFileBlockLocations when

asking for data beyond the end of file. (Andrey Klochkov via todd)

HADOOP-8606. FileSystem.get may return the wrong filesystem (Daryn Sharp

via bobby)

HADOOP-8551. fs -mkdir creates parent directories without the -p option

(John George via bobby)

HADOOP-8613. AbstractDelegationTokenIdentifier#getUser() should set token

auth type. (daryn)

HADOOP-8627. FS deleteOnExit may delete the wrong path (daryn via bobby)

HADOOP-8634. Ensure FileSystem#close doesn't squawk for deleteOnExit paths

(daryn via bobby)

HADOOP-8550. hadoop fs -touchz automatically created parent directories

(John George via bobby)

HADOOP-8635. Cannot cancel paths registered deleteOnExit (daryn via bobby)

HADOOP-8637. FilterFileSystem#setWriteChecksum is broken (daryn via bobby)

HADOOP-8370. Native build failure: javah: class file for

org.apache.hadoop.classification.InterfaceAudience not found (Trevor

Robinson via tgraves)

HADOOP-8633. Interrupted FsShell copies may leave tmp files (Daryn Sharp

via tgraves)

HADOOP-8703. distcpV2: turn CRC checking off for 0 byte size (Dave

Thompson via bobby)

HADOOP-8390. TestFileSystemCanonicalization fails with JDK7 (Trevor

Robinson via tgraves)

HADOOP-8692. TestLocalDirAllocator fails intermittently with JDK7

(Trevor Robinson via tgraves)

HADOOP-8693. TestSecurityUtil fails intermittently with JDK7 (Trevor

Robinson via tgraves)

HADOOP-8697. TestWritableName fails intermittently with JDK7 (Trevor

Robinson via tgraves)

HADOOP-8695. TestPathData fails intermittently with JDK7 (Trevor

Robinson via tgraves)

HADOOP-8611. Allow fall-back to the shell-based implementation when

JNI-based users-group mapping fails (Robert Parker via bobby)

HADOOP-8225. DistCp fails when invoked by Oozie (daryn via bobby)

HADOOP-8709. globStatus changed behavior from 0.20/1.x (Jason Lowe via

bobby)

HADOOP-8725. MR is broken when security is off (daryn via bobby)

HADOOP-8726. The Secrets in Credentials are not available to MR tasks

(daryn and Benoy Antony via bobby)

HADOOP-8727. Gracefully deprecate dfs.umaskmode in 2.x onwards (Harsh J

via bobby)

Release 0.23.2 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HADOOP-8048. Allow merging of Credentials (Daryn Sharp via tgraves)

HADOOP-8032. mvn site:stage-deploy should be able to use the scp protocol

to stage documents (Ravi Prakash via tgraves)

HADOOP-7923. Automate the updating of version numbers in the doc system.

(szetszwo)

HADOOP-8137. Added links to CLI manuals to the site. (tgraves via

acmurthy)

OPTIMIZATIONS

HADOOP-8071. Avoid an extra packet in client code when nagling is

disabled. (todd)

HADOOP-6502. Improve the performance of Configuration.getClassByName when

the class is not found by caching negative results.

(sharad, todd via todd)

BUG FIXES

HADOOP-7660. Maven generated .classpath doesnot includes

"target/generated-test-source/java" as source directory.

(Laxman via bobby)

HADOOP-8042 When copying a file out of HDFS, modifying it, and uploading

it back into HDFS, the put fails due to a CRC mismatch

(Daryn Sharp via bobby)

HADOOP-8035 Hadoop Maven site is inefficient and runs phases redundantly

(abayer via tucu)

HADOOP-8051 HttpFS documentation it is not wired to the generated site (tucu)

HADOOP-8055. Hadoop tarball distribution lacks a core-site.xml (harsh)

HADOOP-8052. Hadoop Metrics2 should emit Float.MAX\_VALUE (instead of

Double.MAX\_VALUE) to avoid making Ganglia's gmetad core. (Varun Kapoor

via mattf)

HADOOP-8074. Small bug in hadoop error message for unknown commands.

(Colin Patrick McCabe via eli)

HADOOP-8082 add hadoop-client and hadoop-minicluster to the

dependency-management section. (tucu)

HADOOP-8066 The full docs build intermittently fails (abayer via tucu)

HADOOP-8083 javadoc generation for some modules is not done under target/ (tucu)

HADOOP-8036. TestViewFsTrash assumes the user's home directory is

2 levels deep. (Colin Patrick McCabe via eli)

HADOOP-8046 Revert StaticMapping semantics to the existing ones, add DNS

mapping diagnostics in progress (stevel)

HADOOP-8057 hadoop-setup-conf.sh not working because of some extra spaces.

(Vinayakumar B via stevel)

HADOOP-7680 TestHardLink fails on Mac OS X, when gnu stat is in path.

(Milind Bhandarkar via stevel)

HADOOP-8050. Deadlock in metrics. (Kihwal Lee via mattf)

HADOOP-8131. FsShell put doesn't correctly handle a non-existent dir

(Daryn Sharp via bobby)

HADOOP-8123. Use java.home rather than env.JAVA\_HOME for java in the

project. (Jonathan Eagles via acmurthy)

HADOOP-8064. Remove unnecessary dependency on w3c.org in document processing

(Khiwal Lee via bobby)

HADOOP-8140. dfs -getmerge should process its argments better (Daryn Sharp

via bobby)

HADOOP-8164. Back slash as path separator is handled for Windows only.

(Daryn Sharp via suresh)

HADOOP-8173. FsShell needs to handle quoted metachars. (Daryn Sharp via

szetszwo)

HADOOP-8175. Add -p option to mkdir in FsShell. (Daryn Sharp via szetszwo)

HADOOP-8176. Disambiguate the destination of FsShell copies (Daryn Sharp

via bobby)

HADOOP-8208. Disallow self failover. (eli)

Release 0.23.1 - 2012-02-17

INCOMPATIBLE CHANGES

NEW FEATURES

HADOOP-7777 Implement a base class for DNSToSwitchMapping implementations

that can offer extra topology information. (stevel)

HADOOP-7657. Add support for LZ4 compression. (Binglin Chang via todd)

HADOOP-7910. Add Configuration.getLongBytes to handle human readable byte size values. (Sho Shimauchi via harsh)

IMPROVEMENTS

HADOOP-7801. HADOOP\_PREFIX cannot be overriden. (Bruno Mahé via tomwhite)

HADOOP-7802. Hadoop scripts unconditionally source

"$bin"/../libexec/hadoop-config.sh. (Bruno Mahé via tomwhite)

HADOOP-7858. Drop some info logging to DEBUG level in IPC,

metrics, and HTTP. (todd via eli)

HADOOP-7424. Log an error if the topology script doesn't handle multiple args.

(Uma Maheswara Rao G via eli)

HADOOP-7804. Enable hadoop config generator to set configurations to enable

short circuit read. (Arpit Gupta via jitendra)

HADOOP-7877. Update balancer CLI usage documentation to include the new

-policy option. (szetszwo)

HADOOP-6840. Support non-recursive create() in FileSystem and

SequenceFile.Writer. (jitendra and eli via eli)

HADOOP-6886. LocalFileSystem Needs createNonRecursive API.

(Nicolas Spiegelberg and eli via eli)

HADOOP-7912. test-patch should run eclipse:eclipse to verify that it does

not break again. (Robert Joseph Evans via tomwhite)

HADOOP-7890. Redirect hadoop script's deprecation message to stderr.

(Koji Knoguchi via mahadev)

HADOOP-7504. Add the missing Ganglia31 opts to hadoop-metrics.properties as a comment. (harsh)

HADOOP-7933. Add a getDelegationTokens api to FileSystem which checks

for known tokens in the passed Credentials object. (sseth)

HADOOP-7737. normalize hadoop-mapreduce & hadoop-dist dist/tar build with

common/hdfs. (tucu)

HADOOP-7743. Add Maven profile to create a full source tarball. (tucu)

HADOOP-7758. Make GlobFilter class public. (tucu)

HADOOP-7590. Mavenize streaming and MR examples. (tucu)

HADOOP-7934. Normalize dependencies versions across all modules. (tucu)

HADOOP-7348. Change 'addnl' in getmerge util to be a flag '-nl' instead.

(XieXianshan via harsh)

HADOOP-7975. Add LZ4 as an entry in the default codec list, missed by HADOOP-7657 (harsh)

HADOOP-4515. Configuration#getBoolean must not be case sensitive. (Sho Shimauchi via harsh)

HADOOP-6490. Use StringUtils over String#replace in Path#normalizePath.

(Uma Maheswara Rao G via harsh)

HADOOP-7574. Improve FSShell -stat, add user/group elements.

(XieXianshan via harsh)

HADOOP-7736. Remove duplicate Path#normalizePath call. (harsh)

HADOOP-7919. Remove the unused hadoop.logfile.\* properties from the

core-default.xml file. (harsh)

HADOOP-7939. Improve Hadoop subcomponent integration in Hadoop 0.23. (rvs via tucu)

HADOOP-8002. SecurityUtil acquired token message should be a debug rather than info.

(Arpit Gupta via mahadev)

HADOOP-8009. Create hadoop-client and hadoop-minicluster artifacts for downstream

projects. (tucu)

HADOOP-7470. Move up to Jackson 1.8.8. (Enis Soztutar via szetszwo)

HADOOP-8027. Visiting /jmx on the daemon web interfaces may print

unnecessary error in logs. (atm)

HADOOP-7792. Add verifyToken method to AbstractDelegationTokenSecretManager.

(jitendra)

OPTIMIZATIONS

BUG FIXES

HADOOP-7811. TestUserGroupInformation#testGetServerSideGroups test fails in chroot.

(Jonathan Eagles via mahadev)

HADOOP-7813. Fix test-patch to use proper numerical comparison when checking

javadoc and findbugs warning counts. (Jonathan Eagles via tlipcon)

HADOOP-7841. Run tests with non-secure random. (tlipcon)

HADOOP-7851. Configuration.getClasses() never returns the default value.

(Uma Maheswara Rao G via amarrk)

HADOOP-7787. Make source tarball use conventional name.

(Bruno Mahé via tomwhite)

HADOOP-6614. RunJar should provide more diags when it can't create

a temp file. (Jonathan Hsieh via eli)

HADOOP-7859. TestViewFsHdfs.testgetFileLinkStatus is failing an assert. (eli)

HADOOP-7864. Building mvn site with Maven < 3.0.2 causes OOM errors.

(Andrew Bayer via eli)

HADOOP-7854. UGI getCurrentUser is not synchronized. (Daryn Sharp via jitendra)

HADOOP-7870. fix SequenceFile#createWriter with boolean

createParent arg to respect createParent. (Jon Hsieh via eli)

HADOOP-7898. Fix javadoc warnings in AuthenticationToken.java. (suresh)

HADOOP-7878 Regression: HADOOP-7777 switch changes break HDFS tests when the

isSingleSwitch() predicate is used. (stevel)

HADOOP-7914. Remove the duplicated declaration of hadoop-hdfs test-jar in

hadoop-project/pom.xml. (szetszwo)

HADOOP-7837. no NullAppender in the log4j config. (eli)

HADOOP-7948. Shell scripts created by hadoop-dist/pom.xml to build tar do not

properly propagate failure. (cim\_michajlomatijkiw via tucu)

HADOOP-7949. Updated maxIdleTime default in the code to match

core-default.xml (eli)

HADOOP-7853. multiple javax security configurations cause conflicts.

(daryn via tucu)

HDFS-2614. hadoop dist tarball is missing hdfs headers. (tucu)

HADOOP-7874. native libs should be under lib/native/ dir. (tucu)

HADOOP-7887. KerberosAuthenticatorHandler is not setting

KerberosName name rules from configuration. (tucu)

HADOOP-7902. skipping name rules setting (if already set) should be done

on UGI initialization only. (tucu)

HADOOP-7810. move hadoop archive to core from tools. (tucu)

HADOOP\_7917. compilation of protobuf files fails in windows/cygwin. (tucu)

HADOOP-7907. hadoop-tools JARs are not part of the distro. (tucu)

HADOOP-7936. There's a Hoop README in the root dir of the tarball. (tucu)

HADOOP-7963. Fix ViewFS to catch a null canonical service-name and pass

tests TestViewFileSystem\* (Siddharth Seth via vinodkv)

HADOOP-7964. Deadlock in NetUtils and SecurityUtil class initialization.

(Daryn Sharp via suresh)

HADOOP-7974. TestViewFsTrash incorrectly determines the user's home

directory. (harsh via eli)

HADOOP-7971. Adding back job/pipes/queue commands to bin/hadoop for

backward compatibility. (Prashath Sharma via acmurthy)

HADOOP-7982. UserGroupInformation fails to login if thread's context

classloader can't load HadoopLoginModule. (todd)

HADOOP-7986. Adding config for MapReduce History Server protocol in

hadoop-policy.xml for service level authorization. (Mahadev Konar via vinodkv)

HADOOP-7981. Improve documentation for org.apache.hadoop.io.compress.

Decompressor.getRemaining (Jonathan Eagles via mahadev)

HADOOP-7997. SequenceFile.createWriter(...createParent...) no

longer works on existing file. (Gregory Chanan via eli)

HADOOP-7993. Hadoop ignores old-style config options for enabling compressed

output. (Anupam Seth via mahadev)

HADOOP-8000. fetchdt command not available in bin/hadoop.

(Arpit Gupta via mahadev)

HADOOP-7999. "hadoop archive" fails with ClassNotFoundException.

(Jason Lowe via mahadev)

HADOOP-8012. hadoop-daemon.sh and yarn-daemon.sh are trying to mkdir

and chown log/pid dirs which can fail. (Roman Shaposhnik via eli)

HADOOP-8013. ViewFileSystem does not honor setVerifyChecksum

(Daryn Sharp via bobby)

HADOOP-8054 NPE with FilterFileSystem (Daryn Sharp via bobby)

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INCOMPATIBLE CHANGES

HADOOP-6904. Support method based RPC compatiblity. (hairong)

HADOOP-6432. Add Statistics support in FileContext. (jitendra)

HADOOP-7136. Remove failmon contrib component. (nigel)

NEW FEATURES

HADOOP-7324. Ganglia plugins for metrics v2. (Priyo Mustafi via llu)

HADOOP-7342. Add an utility API in FileUtil for JDK File.list

avoid NPEs on File.list() (Bharath Mundlapudi via mattf)

HADOOP-7322. Adding a util method in FileUtil for directory listing,

avoid NPEs on File.listFiles() (Bharath Mundlapudi via mattf)

HADOOP-7023. Add listCorruptFileBlocks to Filesysem. (Patrick Kling

via hairong)

HADOOP-7096. Allow setting of end-of-record delimiter for TextInputFormat

(Ahmed Radwan via todd)

HADOOP-6994. Api to get delegation token in AbstractFileSystem. (jitendra)

HADOOP-7171. Support UGI in FileContext API. (jitendra)

HADOOP-7257 Client side mount tables (sanjay)

HADOOP-6919. New metrics2 framework. (Luke Lu via acmurthy)

HADOOP-6920. Metrics instrumentation to move new metrics2 framework.

(Luke Lu via suresh)

HADOOP-7214. Add Common functionality necessary to provide an equivalent

of /usr/bin/groups for Hadoop. (Aaron T. Myers via todd)

HADOOP-6832. Add an authentication plugin using a configurable static user

for the web UI. (Owen O'Malley and Todd Lipcon via cdouglas)

HADOOP-7144. Expose JMX metrics via JSON servlet. (Robert Joseph Evans via

cdouglas)

HADOOP-7379. Add the ability to serialize and deserialize protocol buffers

in ObjectWritable. (todd)

HADOOP-7206. Support Snappy compression. (Issei Yoshida and

Alejandro Abdelnur via eli)

HADOOP-7329. Add the capability of getting invividual attribute of a mbean

using JMXProxyServlet. (tanping)

HADOOP-7380. Add client failover functionality to o.a.h.io.(ipc|retry).

(atm via eli)

HADOOP-7460. Support pluggable trash policies. (Usman Masoon via suresh)

HADOOP-6385. dfs should support -rmdir (was HDFS-639). (Daryn Sharp

via mattf)

HADOOP-7119. add Kerberos HTTP SPNEGO authentication support to Hadoop

JT/NN/DN/TT web-consoles. (Alejandro Abdelnur via atm)

IMPROVEMENTS

HADOOP-7655. Provide a small validation script that smoke tests the installed

cluster. (Arpit Gupta via mattf)

HADOOP-7042. Updates to test-patch.sh to include failed test names and

improve other messaging. (nigel)

HADOOP-7001. Configuration changes can occur via the Reconfigurable

interface. (Patrick Kling via dhruba)

HADOOP-6764. Add number of reader threads and queue length as

configuration parameters in RPC.getServer. (Dmytro Molkov via hairong)

HADOOP-7049. TestReconfiguration should be junit v4.

(Patrick Kling via eli)

HADOOP-7054 Change NN LoadGenerator to use FileContext APIs

(Sanjay Radia)

HADOOP-7060. A more elegant FileSystem#listCorruptFileBlocks API.

(Patrick Kling via hairong)

HADOOP-7058. Expose number of bytes in FSOutputSummer buffer to

implementatins. (Todd Lipcon via hairong)

HADOOP-7061. unprecise javadoc for CompressionCodec. (Jingguo Yao via eli)

HADOOP-7059. Remove "unused" warning in native code. (Noah Watkins via eli)

HADOOP-6864. Provide a JNI-based implementation of

ShellBasedUnixGroupsNetgroupMapping

(implementation of GroupMappingServiceProvider) (Erik Seffl via boryas)

HADOOP-7078. Improve javadocs for RawComparator interface.

(Harsh J Chouraria via todd)

HADOOP-6995. Allow wildcards to be used in ProxyUsers configurations.

(todd)

HADOOP-6376. Add a comment header to conf/slaves that specifies the file

format. (Kay Kay via todd)

HADOOP-7151. Document need for stable hashCode() in WritableComparable.

(Dmitriy V. Ryaboy via todd)

HADOOP-7112. Issue a warning when GenericOptionsParser libjars are not on

local filesystem. (tomwhite)

HADOOP-7114. FsShell should dump all exceptions at DEBUG level.

(todd via tomwhite)

HADOOP-7159. RPC server should log the client hostname when read exception

happened. (Scott Chen via todd)

HADOOP-7167. Allow using a file to exclude certain tests from build. (todd)

HADOOP-7133. Batch the calls in DataStorage to FileUtil.createHardLink().

(Matt Foley via jghoman)

HADOOP-7166. Add DaemonFactory to common. (Erik Steffl & jitendra)

HADOOP-7175. Add isEnabled() to Trash. (Daryn Sharp via szetszwo)

HADOOP-7180. Better support on CommandFormat on the API and exceptions.

(Daryn Sharp via szetszwo)

HADOOP-7202. Improve shell Command base class. (Daryn Sharp via szetszwo)

HADOOP-7224. Add CommandFactory to shell. (Daryn Sharp via szetszwo)

HADOOP-7014. Generalize CLITest structure and interfaces to facilitate

upstream adoption (e.g. for web testing). (cos)

HADOOP-7230. Move "fs -help" shell command tests from HDFS to COMMOM; see

also HDFS-1844. (Daryn Sharp via szetszwo)

HADOOP-7233. Refactor ls to conform to new FsCommand class. (Daryn Sharp

via szetszwo)

HADOOP-7235. Refactor the tail command to conform to new FsCommand class.

(Daryn Sharp via szetszwo)

HADOOP-7179. Federation: Improve HDFS startup scripts. (Erik Steffl

and Tanping Wang via suresh)

HADOOP-7227. Remove protocol version check at proxy creation in Hadoop

RPC. (jitendra)

HADOOP-7236. Refactor the mkdir command to conform to new FsCommand class.

(Daryn Sharp via szetszwo)

HADOOP-7250. Refactor the setrep command to conform to new FsCommand class.

(Daryn Sharp via szetszwo)

HADOOP-7249. Refactor the chmod/chown/chgrp command to conform to new

FsCommand class. (Daryn Sharp via szetszwo)

HADOOP-7251. Refactor the getmerge command to conform to new FsCommand

class. (Daryn Sharp via szetszwo)

HADOOP-7265. Keep track of relative paths in PathData. (Daryn Sharp

via szetszwo)

HADOOP-7238. Refactor the cat and text commands to conform to new FsCommand

class. (Daryn Sharp via szetszwo)

HADOOP-7271. Standardize shell command error messages. (Daryn Sharp

via szetszwo)

HADOOP-7272. Remove unnecessary security related info logs. (suresh)

HADOOP-7275. Refactor the stat command to conform to new FsCommand

class. (Daryn Sharp via szetszwo)

HADOOP-7237. Refactor the touchz command to conform to new FsCommand

class. (Daryn Sharp via szetszwo)

HADOOP-7267. Refactor the rm/rmr/expunge commands to conform to new

FsCommand class. (Daryn Sharp via szetszwo)

HADOOP-7285. Refactor the test command to conform to new FsCommand

class. (Daryn Sharp via todd)

HADOOP-7289. In ivy.xml, test conf should not extend common conf.

(Eric Yang via szetszwo)

HADOOP-7291. Update Hudson job not to run test-contrib. (Nigel Daley via eli)

HADOOP-7286. Refactor the du/dus/df commands to conform to new FsCommand

class. (Daryn Sharp via todd)

HADOOP-7301. FSDataInputStream should expose a getWrappedStream method.

(Jonathan Hsieh via eli)

HADOOP-7306. Start metrics system even if config files are missing

(Luke Lu via todd)

HADOOP-7302. webinterface.private.actions should be renamed and moved to

the MapReduce project. (Ari Rabkin via todd)

HADOOP-7329. Improve help message for "df" to include "-h" flag.

(Xie Xianshan via todd)

HADOOP-7320. Refactor the copy and move commands to conform to new

FsCommand class. (Daryn Sharp via todd)

HADOOP-7312. Update value of hadoop.common.configuration.version.

(Harsh J Chouraria via todd)

HADOOP-7337. Change PureJavaCrc32 annotations to public stable. (szetszwo)

HADOOP-7331. Make hadoop-daemon.sh return exit code 1 if daemon processes

did not get started. (Tanping Wang via todd)

HADOOP-7316. Add public javadocs to FSDataInputStream and

FSDataOutputStream. (eli)

HADOOP-7323. Add capability to resolve compression codec based on codec

name. (Alejandro Abdelnur via tomwhite)

HADOOP-1886. Undocumented parameters in FilesSystem. (Frank Conrad via eli)

HADOOP-7375. Add resolvePath method to FileContext. (Sanjay Radia via eli)

HADOOP-7383. HDFS needs to export protobuf library dependency in pom.

(todd via eli)

HADOOP-7374. Don't add tools.jar to the classpath when running Hadoop.

(eli)

HADOOP-7106. Reorganize project SVN layout to "unsplit" the projects.

(todd, nigel)

HADOOP-6605. Add JAVA\_HOME detection to hadoop-config. (eli)

HADOOP-7384. Allow test-patch to be more flexible about patch format. (todd)

HADOOP-6929. RPC should have a way to pass Security information other than

protocol annotations. (sharad and omalley via mahadev)

HADOOP-7385. Remove StringUtils.stringifyException(ie) in logger functions.

(Bharath Mundlapudi via Tanping Wang).

HADOOP-310. Additional constructor requested in BytesWritable. (Brock

Noland via atm)

HADOOP-7429. Add another IOUtils#copyBytes method. (eli)

HADOOP-7451. Generalize StringUtils#join. (Chris Douglas via mattf)

HADOOP-7449. Add Data(In,Out)putByteBuffer to work with ByteBuffer similar

to Data(In,Out)putBuffer for byte[]. Merge from yahoo-merge branch,

-r 1079163. Fix missing Apache license headers. (Chris Douglas via mattf)

HADOOP-7361. Provide an option, -overwrite/-f, in put and copyFromLocal

shell commands. (Uma Maheswara Rao G via szetszwo)

HADOOP-7430. Improve error message when moving to trash fails due to

quota issue. (Ravi Prakash via mattf)

HADOOP-7444. Add Checksum API to verify and calculate checksums "in bulk"

(todd)

HADOOP-7443. Add CRC32C as another DataChecksum implementation (todd)

HADOOP-7305. Eclipse project files are incomplete. (Niels Basjes via eli)

HADOOP-7314. Add support for throwing UnknownHostException when a host doesn't

resolve. (Jeffrey Naisbitt via jitendra)

HADOOP-7465. A several tiny improvements for the LOG format.

(Xie Xianshan via eli)

HADOOP-7434. Display error when using "daemonlog -setlevel" with

illegal level. (yanjinshuang via eli)

HADOOP-7463. Adding a configuration parameter to SecurityInfo interface.

(mahadev)

HADOOP-7298. Add test utility for writing multi-threaded tests. (todd and

Harsh J Chouraria via todd)

HADOOP-7485. Add -h option to ls to list file sizes in human readable

format. (XieXianshan via suresh)

HADOOP-7378. Add -d option to ls to not expand directories.

(Daryn Sharp via suresh)

HADOOP-7474. Refactor ClientCache out of WritableRpcEngine. (jitendra)

HADOOP-7491. hadoop command should respect HADOOP\_OPTS when given

a class name. (eli)

HADOOP-7178. Add a parameter, useRawLocalFileSystem, to copyToLocalFile(..)

in FileSystem. (Uma Maheswara Rao G via szetszwo)

HADOOP-6671. Use maven for hadoop common builds. (Alejandro Abdelnur

via tomwhite)

HADOOP-7502. Make generated sources IDE friendly.

(Alejandro Abdelnur via llu)

HADOOP-7501. Publish Hadoop Common artifacts (post HADOOP-6671) to Apache

SNAPSHOTs repo. (Alejandro Abdelnur via tomwhite)

HADOOP-7525. Make arguments to test-patch optional. (tomwhite)

HADOOP-7472. RPC client should deal with IP address change.

(Kihwal Lee via suresh)

HADOOP-7499. Add method for doing a sanity check on hostnames in NetUtils.

(Jeffrey Naisbit via mahadev)

HADOOP-6158. Move CyclicIteration to HDFS. (eli)

HADOOP-7526. Add TestPath tests for URI conversion and reserved

characters. (eli)

HADOOP-7531. Add servlet util methods for handling paths in requests. (eli)

HADOOP-7493. Add ShortWritable. (Uma Maheswara Rao G via szetszwo)

HADOOP-7555. Add a eclipse-generated files to .gitignore. (atm)

HADOOP-7264. Bump avro version to at least 1.4.1. (Alejandro Abdelnur via

tomwhite)

HADOOP-7498. Remove legacy TAR layout creation. (Alejandro Abdelnur via

tomwhite)

HADOOP-7496. Break Maven TAR & bintar profiles into just LAYOUT & TAR proper.

(Alejandro Abdelnur via tomwhite)

HADOOP-7561. Make test-patch only run tests for changed modules. (tomwhite)

HADOOP-7547. Add generic type in WritableComparable subclasses.

(Uma Maheswara Rao G via szetszwo)

HADOOP-7579. Rename package names from alfredo to auth.

(Alejandro Abdelnur via szetszwo)

HADOOP-7594. Support HTTP REST in HttpServer. (szetszwo)

HADOOP-7552. FileUtil#fullyDelete doesn't throw IOE but lists it

in the throws clause. (eli)

HADOOP-7580. Add a version of getLocalPathForWrite to LocalDirAllocator

which doesn't create dirs. (Chris Douglas & Siddharth Seth via acmurthy)

HADOOP-7507. Allow ganglia metrics to include the metrics system tags

in the gmetric names. (Alejandro Abdelnur via todd)

HADOOP-7612. Change test-patch to run tests for all nested modules.

(tomwhite)

HADOOP-7599. Script improvements to setup a secure Hadoop cluster

(Eric Yang via ddas)

HADOOP-7639. Enhance HttpServer to allow passing path-specs for filtering,

so that servers like Yarn WebApp can get filtered the paths served by

their own injected servlets. (Thomas Graves via vinodkv)

HADOOP-7575. Enhanced LocalDirAllocator to support fully-qualified

paths. (Jonathan Eagles via vinodkv)

HADOOP-7469 Add a standard handler for socket connection problems which

improves diagnostics (Uma Maheswara Rao G and stevel via stevel)

HADOOP-7710. Added hadoop-setup-application.sh for creating

application directory (Arpit Gupta via Eric Yang)

HADOOP-7707. Added toggle for dfs.support.append, webhdfs and hadoop proxy

user to setup config script. (Arpit Gupta via Eric Yang)

HADOOP-7720. Added parameter for HBase user to setup config script.

(Arpit Gupta via Eric Yang)

HADOOP-7624. Set things up for a top level hadoop-tools module. (tucu)

HADOOP-7627. Improve MetricsAsserts to give more understandable output

on failure. (todd)

HADOOP-7642. create hadoop-dist module where TAR stitching would happen.

(Thomas White via tucu)

HADOOP-7709. Running a set of methods in a Single Test Class.

(Jonathan Eagles via mahadev)

HADOOP-7705. Add a log4j back end that can push out JSON data,

one per line. (stevel)

HADOOP-7749. Add a NetUtils createSocketAddr call which provides more

help in exception messages. (todd)

HADOOP-7762. Common side of MR-2736. (eli)

HADOOP-7668. Add a NetUtils method that can tell if an InetAddress

belongs to local host. (suresh)

HADOOP-7509. Improve exception message thrown when Authentication is

required. (Ravi Prakash via suresh)

HADOOP-7745. Fix wrong variable name in exception message introduced

in HADOOP-7509. (Ravi Prakash via suresh)

MAPREDUCE-2764. Fix renewal of dfs delegation tokens. (Owen via jitendra)

HADOOP-7360. Preserve relative paths that do not contain globs in FsShell.

(Daryn Sharp and Kihwal Lee via szetszwo)

HADOOP-7771. FsShell -copyToLocal, -get, etc. commands throw NPE if the

destination directory does not exist. (John George and Daryn Sharp

via szetszwo)

HADOOP-7782. Aggregate project javadocs. (tomwhite)

HADOOP-7789. Improvements to site navigation. (acmurthy)

OPTIMIZATIONS

HADOOP-7333. Performance improvement in PureJavaCrc32. (Eric Caspole

via todd)

HADOOP-7445. Implement bulk checksum verification using efficient native

code. (todd)

HADOOP-7753. Support fadvise and sync\_file\_range in NativeIO. Add

ReadaheadPool infrastructure for use in HDFS and MR. (todd)

HADOOP-7446. Implement CRC32C native code using SSE4.2 instructions.

(Kihwal Lee and todd via todd)

HADOOP-7763. Add top-level navigation to APT docs. (tomwhite)

HADOOP-7785. Add equals, hashcode, toString to DataChecksum (todd)

BUG FIXES

HADOOP-7740. Fixed security audit logger configuration. (Arpit Gupta via Eric Yang)

HADOOP-7630. hadoop-metrics2.properties should have a property \*.period

set to a default value for metrics. (Eric Yang via mattf)

HADOOP-7327. FileSystem.listStatus() throws NullPointerException instead of

IOException upon access permission failure. (mattf)

HADOOP-7015. RawLocalFileSystem#listStatus does not deal with a directory

whose entries are changing (e.g. in a multi-thread or multi-process

environment). (Sanjay Radia via eli)

HADOOP-7045. TestDU fails on systems with local file systems with

extended attributes. (eli)

HADOOP-6939. Inconsistent lock ordering in

AbstractDelegationTokenSecretManager. (Todd Lipcon via tomwhite)

HADOOP-7129. Fix typo in method name getProtocolSigature (todd)

HADOOP-7048. Wrong description of Block-Compressed SequenceFile Format in

SequenceFile's javadoc. (Jingguo Yao via tomwhite)

HADOOP-7153. MapWritable violates contract of Map interface for equals()

and hashCode(). (Nicholas Telford via todd)

HADOOP-6754. DefaultCodec.createOutputStream() leaks memory.

(Aaron Kimball via tomwhite)

HADOOP-7098. Tasktracker property not set in conf/hadoop-env.sh.

(Bernd Fondermann via tomwhite)

HADOOP-7131. Exceptions thrown by Text methods should include the causing

exception. (Uma Maheswara Rao G via todd)

HADOOP-6912. Guard against NPE when calling UGI.isLoginKeytabBased().

(Kan Zhang via jitendra)

HADOOP-7204. remove local unused fs variable from CmdHandler

and FsShellPermissions.changePermissions (boryas)

HADOOP-7210. Chown command is not working from FSShell

(Uma Maheswara Rao G via todd)

HADOOP-7215. RPC clients must use network interface corresponding to

the host in the client's kerberos principal key. (suresh)

HADOOP-7019. Refactor build targets to enable faster cross project dev

cycles. (Luke Lu via cos)

HADOOP-7216. Add FsCommand.runAll() with deprecated annotation for the

transition of Command base class improvement. (Daryn Sharp via szetszwo)

HADOOP-7207. fs member of FSShell is not really needed (boryas)

HADOOP-7223. FileContext createFlag combinations are not clearly defined.

(suresh)

HADOOP-7231. Fix synopsis for -count. (Daryn Sharp via eli).

HADOOP-7261. Disable IPV6 for junit tests. (suresh)

HADOOP-7268. FileContext.getLocalFSFileContext() behavior needs to be fixed

w.r.t tokens. (jitendra)

HADOOP-7290. Unit test failure in

TestUserGroupInformation.testGetServerSideGroups. (Trevor Robison via eli)

HADOOP-7292. Fix racy test case TestSinkQueue. (Luke Lu via todd)

HADOOP-7282. ipc.Server.getRemoteIp() may return null. (John George

via szetszwo)

HADOOP-7208. Fix implementation of equals() and hashCode() in

StandardSocketFactory. (Uma Maheswara Rao G via todd)

HADOOP-7336. TestFileContextResolveAfs will fail with default

test.build.data property. (jitendra)

HADOOP-7284 Trash and shell's rm does not work for viewfs (Sanjay Radia)

HADOOP-7341. Fix options parsing in CommandFormat (Daryn Sharp via todd)

HADOOP-7353. Cleanup FsShell and prevent masking of RTE stack traces.

(Daryn Sharp via todd)

HADOOP-7356. RPM packages broke bin/hadoop script in developer environment.

(Eric Yang via todd)

HADOOP-7389. Use of TestingGroups by tests causes subsequent tests to fail.

(atm via tomwhite)

HADOOP-7377. Fix command name handling affecting DFSAdmin. (Daryn Sharp

via mattf)

HADOOP-7402. TestConfiguration doesn't clean up after itself. (atm via eli)

HADOOP-7428. IPC connection is orphaned with null 'out' member.

(todd via eli)

HADOOP-7437. IOUtils.copybytes will suppress the stream closure exceptions.

(Uma Maheswara Rao G via szetszwo)

HADOOP-7090. Fix resource leaks in s3.INode, BloomMapFile, WritableUtils

and CBZip2OutputStream. (Uma Maheswara Rao G via szetszwo)

HADOOP-7440. HttpServer.getParameterValues throws NPE for missing

parameters. (Uma Maheswara Rao G and todd via todd)

HADOOP-7442. Docs in core-default.xml still reference deprecated config

"topology.script.file.name" (atm)

HADOOP-7419. new hadoop-config.sh doesn't manage classpath for

HADOOP\_CONF\_DIR correctly. (Bing Zheng and todd via todd)

HADOOP-7448. merge from yahoo-merge branch (via mattf):

-r 1079157: Fix content type for /stacks servlet to be

plain text (Luke Lu)

-r 1079164: No need to escape plain text (Luke Lu)

HADOOP-7471. The saveVersion.sh script sometimes fails to extract SVN URL.

(Alejandro Abdelnur via eli)

HADOOP-2081. Configuration getInt, getLong, and getFloat replace

invalid numbers with the default value. (Harsh J via eli)

HADOOP-7111. Several TFile tests failing when native libraries are

present. (atm)

HADOOP-7438. Fix deprecated warnings from hadoop-daemon.sh script.

(Ravi Prakash via suresh)

HADOOP-7468 hadoop-core JAR contains a log4j.properties file.

(Jolly Chen)

HADOOP-7508. Compiled nativelib is in wrong directory and it is not picked

up by surefire setup. (Alejandro Abdelnur via tomwhite)

HADOOP-7520. Fix to add distribution management info to hadoop-main

(Alejandro Abdelnur via gkesavan)

HADOOP-7515. test-patch reports the wrong number of javadoc warnings.

(tomwhite)

HADOOP-7523. Test org.apache.hadoop.fs.TestFilterFileSystem fails due to

java.lang.NoSuchMethodException. (John Lee via tomwhite)

HADOOP-7528. Maven build fails in Windows. (Alejandro Abdelnur via

tomwhite)

HADOOP-7533. Allow test-patch to be run from any subproject directory.

(tomwhite)

HADOOP-7512. Fix example mistake in WritableComparable javadocs.

(Harsh J via eli)

HADOOP-7357. hadoop.io.compress.TestCodec#main() should exit with

non-zero exit code if test failed. (Philip Zeyliger via eli)

HADOOP-6622. Token should not print the password in toString. (eli)

HADOOP-7529. Fix lock cycles in metrics system. (llu)

HADOOP-7545. Common -tests JAR should not include properties and configs.

(todd)

HADOOP-7536. Correct the dependency version regressions introduced in

HADOOP-6671. (Alejandro Abdelnur via tomwhite)

HADOOP-7566. MR tests are failing webapps/hdfs not found in CLASSPATH.

(Alejandro Abdelnur via mahadev)

HADOOP-7567. 'mvn eclipse:eclipse' fails for hadoop-alfredo (auth).

(Alejandro Abdelnur via tomwhite)

HADOOP-7563. Setup HADOOP\_HDFS\_HOME, HADOOP\_MAPRED\_HOME and classpath

correction. (Eric Yang via acmurthy)

HADOOP-7560. Change src layout to be heirarchical. (Alejandro Abdelnur

via acmurthy)

HADOOP-7576. Fix findbugs warnings and javac warnings in hadoop-auth.

(szetszwo)

HADOOP-7593. Fix AssertionError in TestHttpServer.testMaxThreads().

(Uma Maheswara Rao G via szetszwo)

HADOOP-7598. Fix smart-apply-patch.sh to handle patching from a sub

directory correctly. (Robert Evans via acmurthy)

HADOOP-7328. When a serializer class is missing, return null, not throw

an NPE. (Harsh J Chouraria via todd)

HADOOP-7626. Bugfix for a config generator (Eric Yang via ddas)

HADOOP-7629. Allow immutable FsPermission objects to be used as IPC

parameters. (todd)

HADOOP-7608. SnappyCodec check for Hadoop native lib is wrong

(Alejandro Abdelnur via todd)

HADOOP-7637. Fix to include FairScheduler configuration file in

RPM. (Eric Yang via ddas)

HADOOP-7633. Adds log4j.properties to the hadoop-conf dir on

deploy (Eric Yang via ddas)

HADOOP-7631. Fixes a config problem to do with running streaming jobs

(Eric Yang via ddas)

HADOOP-7662. Fixed logs servlet to use the pathspec '/\*' instead of '/'

for correct filtering. (Thomas Graves via vinodkv)

HADOOP-7691. Fixed conflict uid for install packages. (Eric Yang)

HADOOP-7603. Set hdfs, mapred uid, and hadoop uid to fixed numbers.

(Eric Yang)

HADOOP-7658. Fixed HADOOP\_SECURE\_DN\_USER environment variable in

hadoop-evn.sh (Eric Yang)

HADOOP-7684. Added init.d script for jobhistory server and

secondary namenode. (Eric Yang)

HADOOP-7715. Removed unnecessary security logger configuration. (Eric Yang)

HADOOP-7685. Improved directory ownership check function in

hadoop-setup-conf.sh. (Eric Yang)

HADOOP-7711. Fixed recursive sourcing of HADOOP\_OPTS environment

variables (Arpit Gupta via Eric Yang)

HADOOP-7681. Fixed security and hdfs audit log4j properties

(Arpit Gupta via Eric Yang)

HADOOP-7708. Fixed hadoop-setup-conf.sh to handle config files

consistently. (Eric Yang)

HADOOP-7724. Fixed hadoop-setup-conf.sh to put proxy user in

core-site.xml. (Arpit Gupta via Eric Yang)

HADOOP-7755. Detect MapReduce PreCommit Trunk builds silently failing

when running test-patch.sh. (Jonathan Eagles via tomwhite)

HADOOP-7744. Ensure failed tests exit with proper error code. (Jonathan

Eagles via acmurthy)

HADOOP-7764. Allow HttpServer to set both ACL list and path spec filters.

(Jonathan Eagles via acmurthy)

HADOOP-7766. The auth to local mappings are not being respected, with webhdfs

and security enabled. (jitendra)

HADOOP-7721. Add log before login in KerberosAuthenticationHandler.

(jitendra)

HADOOP-7778. FindBugs warning in Token.getKind(). (tomwhite)

HADOOP-7798. Add support gpg signatures for maven release artifacts.

(cutting via acmurthy)

HADOOP-7797. Fix top-level pom.xml to refer to correct staging maven

repository. (omalley via acmurthy)

HADOOP-7101. UserGroupInformation.getCurrentUser() fails when called from

non-Hadoop JAAS context. (todd)

Release 0.22.1 - Unreleased

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-7937. Forward port SequenceFile#syncFs and friends from Hadoop 1.x.

(tomwhite)

Release 0.22.0 - 2011-11-29

INCOMPATIBLE CHANGES

HADOOP-7137. Remove hod contrib. (nigel via eli)

NEW FEATURES

HADOOP-6791. Refresh for proxy superuser config

(common part for HDFS-1096) (boryas)

HADOOP-6581. Add authenticated TokenIdentifiers to UGI so that

they can be used for authorization (Kan Zhang and Jitendra Pandey

via jghoman)

HADOOP-6584. Provide Kerberized SSL encryption for webservices.

(jghoman and Kan Zhang via jghoman)

HADOOP-6853. Common component of HDFS-1045. (jghoman)

HADOOP-6859 - Introduce additional statistics to FileSystem to track

file system operations (suresh)

HADOOP-6870. Add a new API getFiles to FileSystem and FileContext that

lists all files under the input path or the subtree rooted at the

input path if recursive is true. Block locations are returned together

with each file's status. (hairong)

HADOOP-6888. Add a new FileSystem API closeAllForUGI(..) for closing all

file systems associated with a particular UGI. (Devaraj Das and Kan Zhang

via szetszwo)

HADOOP-6892. Common component of HDFS-1150 (Verify datanodes' identities

to clients in secure clusters) (jghoman)

HADOOP-6889. Make RPC to have an option to timeout. (hairong)

HADOOP-6996. Allow CodecFactory to return a codec object given a codec'

class name. (hairong)

HADOOP-7013. Add boolean field isCorrupt to BlockLocation.

(Patrick Kling via hairong)

HADOOP-6978. Adds support for NativeIO using JNI.

(Todd Lipcon, Devaraj Das & Owen O'Malley via ddas)

HADOOP-7134. configure files that are generated as part of the released

tarball need to have executable bit set. (Roman Shaposhnik via cos)

IMPROVEMENTS

HADOOP-6644. util.Shell getGROUPS\_FOR\_USER\_COMMAND method name

- should use common naming convention (boryas)

HADOOP-6778. add isRunning() method to

AbstractDelegationTokenSecretManager (for HDFS-1044) (boryas)

HADOOP-6633. normalize property names for JT/NN kerberos principal

names in configuration (boryas)

HADOOP-6627. "Bad Connection to FS" message in FSShell should print

message from the exception (boryas)

HADOOP-6600. mechanism for authorization check for inter-server

protocols. (boryas)

HADOOP-6623. Add StringUtils.split for non-escaped single-character

separator. (Todd Lipcon via tomwhite)

HADOOP-6761. The Trash Emptier has the ability to run more frequently.

(Dmytro Molkov via dhruba)

HADOOP-6714. Resolve compressed files using CodecFactory in FsShell::text.

(Patrick Angeles via cdouglas)

HADOOP-6661. User document for UserGroupInformation.doAs.

(Jitendra Pandey via jghoman)

HADOOP-6674. Makes use of the SASL authentication options in the

SASL RPC. (Jitendra Pandey via ddas)

HADOOP-6526. Need mapping from long principal names to local OS

user names. (boryas)

HADOOP-6814. Adds an API in UserGroupInformation to get the real

authentication method of a passed UGI. (Jitendra Pandey via ddas)

HADOOP-6756. Documentation for common configuration keys.

(Erik Steffl via shv)

HADOOP-6835. Add support for concatenated gzip input. (Greg Roelofs via

cdouglas)

HADOOP-6845. Renames the TokenStorage class to Credentials.

(Jitendra Pandey via ddas)

HADOOP-6826. FileStatus needs unit tests. (Rodrigo Schmidt via Eli

Collins)

HADOOP-6905. add buildDTServiceName method to SecurityUtil

(as part of MAPREDUCE-1718) (boryas)

HADOOP-6632. Adds support for using different keytabs for different

servers in a Hadoop cluster. In the earier implementation, all servers

of a certain type (like TaskTracker), would have the same keytab and the

same principal. Now the principal name is a pattern that has \_HOST in it.

(Kan Zhang & Jitendra Pandey via ddas)

HADOOP-6861. Adds new non-static methods in Credentials to read and

write token storage file. (Jitendra Pandey & Owen O'Malley via ddas)

HADOOP-6877. Common part of HDFS-1178 (NameNode servlets should communicate

with NameNode directrly). (Kan Zhang via jghoman)

HADOOP-6475. Adding some javadoc to Server.RpcMetrics, UGI.

(Jitendra Pandey and borya via jghoman)

HADOOP-6656. Adds a thread in the UserGroupInformation to renew TGTs

periodically. (Owen O'Malley and ddas via ddas)

HADOOP-6890. Improve listFiles API introduced by HADOOP-6870. (hairong)

HADOOP-6862. Adds api to add/remove user and group to AccessControlList

(amareshwari)

HADOOP-6911. doc update for DelegationTokenFetcher (boryas)

HADOOP-6900. Make the iterator returned by FileSystem#listLocatedStatus to

throw IOException rather than RuntimeException when there is an IO error

fetching the next file. (hairong)

HADOOP-6905. Better logging messages when a delegation token is invalid.

(Kan Zhang via jghoman)

HADOOP-6693. Add metrics to track kerberol login activity. (suresh)

HADOOP-6803. Add native gzip read/write coverage to TestCodec.

(Eli Collins via tomwhite)

HADOOP-6950. Suggest that HADOOP\_CLASSPATH should be preserved in

hadoop-env.sh.template. (Philip Zeyliger via Eli Collins)

HADOOP-6922. Make AccessControlList a writable and update documentation

for Job ACLs. (Ravi Gummadi via vinodkv)

HADOOP-6965. Introduces checks for whether the original tgt is valid

in the reloginFromKeytab method.

HADOOP-6856. Simplify constructors for SequenceFile, and MapFile. (omalley)

HADOOP-6987. Use JUnit Rule to optionally fail test cases that run more

than 10 seconds (jghoman)

HADOOP-7005. Update test-patch.sh to remove callback to Hudson. (nigel)

HADOOP-6985. Suggest that HADOOP\_OPTS be preserved in

hadoop-env.sh.template. (Ramkumar Vadali via cutting)

HADOOP-7007. Update the hudson-test-patch ant target to work with the

latest test-patch.sh script (gkesavan)

HADOOP-7010. Typo in FileSystem.java. (Jingguo Yao via eli)

HADOOP-7009. MD5Hash provides a public factory method that creates an

instance of thread local MessageDigest. (hairong)

HADOOP-7008. Enable test-patch.sh to have a configured number of

acceptable findbugs and javadoc warnings. (nigel and gkesavan)

HADOOP-6818. Provides a JNI implementation of group resolution. (ddas)

HADOOP-6943. The GroupMappingServiceProvider interface should be public.

(Aaron T. Myers via tomwhite)

HADOOP-4675. Current Ganglia metrics implementation is incompatible with

Ganglia 3.1. (Brian Bockelman via tomwhite)

HADOOP-6977. Herriot daemon clients should vend statistics (cos)

HADOOP-7024. Create a test method for adding file systems during tests.

(Kan Zhang via jghoman)

HADOOP-6903. Make AbstractFSileSystem methods and some FileContext methods

to be public. (Sanjay Radia)

HADOOP-7034. Add TestPath tests to cover dot, dot dot, and slash

normalization. (eli)

HADOOP-7032. Assert type constraints in the FileStatus constructor. (eli)

HADOOP-6562. FileContextSymlinkBaseTest should use FileContextTestHelper.

(eli)

HADOOP-7028. ant eclipse does not include requisite ant.jar in the

classpath. (Patrick Angeles via eli)

HADOOP-6298. Add copyBytes to Text and BytesWritable. (omalley)

HADOOP-6578. Configuration should trim whitespace around a lot of value

types. (Michele Catasta via eli)

HADOOP-6811. Remove EC2 bash scripts. They are replaced by Apache Whirr

(incubating, http://incubator.apache.org/whirr). (tomwhite)

HADOOP-7102. Remove "fs.ramfs.impl" field from core-deafult.xml (shv)

HADOOP-7104. Remove unnecessary DNS reverse lookups from RPC layer

(Kan Zhang via todd)

HADOOP-6056. Use java.net.preferIPv4Stack to force IPv4.

(Michele Catasta via shv)

HADOOP-7110. Implement chmod with JNI. (todd)

HADOOP-6812. Change documentation for correct placement of configuration

variables: mapreduce.reduce.input.buffer.percent,

mapreduce.task.io.sort.factor, mapreduce.task.io.sort.mb

(Chris Douglas via shv)

HADOOP-6436. Remove auto-generated native build files. (rvs via eli)

HADOOP-6970. SecurityAuth.audit should be generated under /build. (boryas)

HADOOP-7154. Should set MALLOC\_ARENA\_MAX in hadoop-env.sh (todd)

HADOOP-7187. Fix socket leak in GangliaContext. (Uma Maheswara Rao G

via szetszwo)

HADOOP-7241. fix typo of command 'hadoop fs -help tail'.

(Wei Yongjun via eli)

HADOOP-7244. Documentation change for updated configuration keys.

(tomwhite via eli)

HADOOP-7189. Add ability to enable 'debug' property in JAAS configuration.

(Ted Yu via todd)

HADOOP-7192. Update fs -stat docs to reflect the format features. (Harsh

J Chouraria via todd)

HADOOP-7355 Add audience and stability annotations to HttpServer class

(stack)

HADOOP-7346. Send back nicer error message to clients using outdated IPC

version. (todd)

HADOOP-7335. Force entropy to come from non-true random for tests.

(todd via eli)

HADOOP-7325. The hadoop command should not accept class names starting with

a hyphen. (Brock Noland via todd)

HADOOP-7772. javadoc the topology classes (stevel)

HADOOP-7786. Remove HDFS-specific config keys defined in FsConfig. (eli)

HADOOP-7861. changes2html.pl generates links to HADOOP, HDFS, and MAPREDUCE

jiras. (shv)

OPTIMIZATIONS

HADOOP-6884. Add LOG.isDebugEnabled() guard for each LOG.debug(..).

(Erik Steffl via szetszwo)

HADOOP-6683. ZlibCompressor does not fully utilize the buffer.

(Kang Xiao via eli)

HADOOP-6949. Reduce RPC packet size of primitive arrays using

ArrayPrimitiveWritable instead of ObjectWritable. (Matt Foley via suresh)

BUG FIXES

HADOOP-6638. try to relogin in a case of failed RPC connection (expired

tgt) only in case the subject is loginUser or proxyUgi.realUser. (boryas)

HADOOP-6781. security audit log shouldn't have exception in it. (boryas)

HADOOP-6612. Protocols RefreshUserToGroupMappingsProtocol and

RefreshAuthorizationPolicyProtocol will fail with security enabled (boryas)

HADOOP-6764. Remove verbose logging from the Groups class. (Boris Shkolnik)

HADOOP-6730. Bug in FileContext#copy and provide base class for

FileContext tests. (Ravi Phulari via jghoman)

HADOOP-6669. Respect compression configuration when creating DefaultCodec

instances. (Koji Noguchi via cdouglas)

HADOOP-6747. TestNetUtils fails on Mac OS X. (Todd Lipcon via jghoman)

HADOOP-6787. Factor out glob pattern code from FileContext and

Filesystem. Also fix bugs identified in HADOOP-6618 and make the

glob pattern code less restrictive and more POSIX standard

compliant. (Luke Lu via eli)

HADOOP-6649. login object in UGI should be inside the subject (jnp via

boryas)

HADOOP-6687. user object in the subject in UGI should be reused in case

of a relogin. (jnp via boryas)

HADOOP-6603. Provide workaround for issue with Kerberos not resolving

cross-realm principal (Kan Zhang and Jitendra Pandey via jghoman)

HADOOP-6620. NPE if renewer is passed as null in getDelegationToken.

(Jitendra Pandey via jghoman)

HADOOP-6613. Moves the RPC version check ahead of the AuthMethod check.

(Kan Zhang via ddas)

HADOOP-6682. NetUtils:normalizeHostName does not process hostnames starting

with [a-f] correctly. (jghoman)

HADOOP-6652. Removes the unnecessary cache from

ShellBasedUnixGroupsMapping. (ddas)

HADOOP-6815. refreshSuperUserGroupsConfiguration should use server side

configuration for the refresh (boryas)

HADOOP-6648. Adds a check for null tokens in Credentials.addToken api.

(ddas)

HADOOP-6647. balancer fails with "is not authorized for protocol

interface NamenodeProtocol" in secure environment (boryas)

HADOOP-6834. TFile.append compares initial key against null lastKey

(hong tang via mahadev)

HADOOP-6670. Use the UserGroupInformation's Subject as the criteria for

equals and hashCode. (Owen O'Malley and Kan Zhang via ddas)

HADOOP-6536. Fixes FileUtil.fullyDelete() not to delete the contents of

the sym-linked directory. (Ravi Gummadi via amareshwari)

HADOOP-6873. using delegation token over hftp for long

running clients (boryas)

HADOOP-6706. Improves the sasl failure handling due to expired tickets,

and other server detected failures. (Jitendra Pandey and ddas via ddas)

HADOOP-6715. Fixes AccessControlList.toString() to return a descriptive

String representation of the ACL. (Ravi Gummadi via amareshwari)

HADOOP-6885. Fix java doc warnings in Groups and

RefreshUserMappingsProtocol. (Eli Collins via jghoman)

HADOOP-6482. GenericOptionsParser constructor that takes Options and

String[] ignores options. (Eli Collins via jghoman)

HADOOP-6906. FileContext copy() utility doesn't work with recursive

copying of directories. (vinod k v via mahadev)

HADOOP-6453. Hadoop wrapper script shouldn't ignore an existing

JAVA\_LIBRARY\_PATH. (Chad Metcalf via jghoman)

HADOOP-6932. Namenode start (init) fails because of invalid kerberos

key, even when security set to "simple" (boryas)

HADOOP-6913. Circular initialization between UserGroupInformation and

KerberosName (Kan Zhang via boryas)

HADOOP-6907. Rpc client doesn't use the per-connection conf to figure

out server's Kerberos principal (Kan Zhang via hairong)

HADOOP-6938. ConnectionId.getRemotePrincipal() should check if security

is enabled. (Kan Zhang via hairong)

HADOOP-6930. AvroRpcEngine doesn't work with generated Avro code.

(sharad)

HADOOP-6940. RawLocalFileSystem's markSupported method misnamed

markSupport. (Tom White via eli).

HADOOP-6951. Distinct minicluster services (e.g. NN and JT) overwrite each

other's service policies. (Aaron T. Myers via tomwhite)

HADOOP-6879. Provide SSH based (Jsch) remote execution API for system

tests (cos)

HADOOP-6989. Correct the parameter for SetFile to set the value type

for SetFile to be NullWritable instead of the key. (cdouglas via omalley)

HADOOP-6984. Combine the compress kind and the codec in the same option

for SequenceFiles. (cdouglas via omalley)

HADOOP-6933. TestListFiles is flaky. (Todd Lipcon via tomwhite)

HADOOP-6947. Kerberos relogin should set refreshKrb5Config to true.

(Todd Lipcon via tomwhite)

HADOOP-7006. Fix 'fs -getmerge' command to not be a no-op.

(Chris Nauroth via cutting)

HADOOP-6663. BlockDecompressorStream get EOF exception when decompressing

the file compressed from empty file. (Kang Xiao via tomwhite)

HADOOP-6991. Fix SequenceFile::Reader to honor file lengths and call

openFile (cdouglas via omalley)

HADOOP-7011. Fix KerberosName.main() to not throw an NPE.

(Aaron T. Myers via tomwhite)

HADOOP-6975. Integer overflow in S3InputStream for blocks > 2GB.

(Patrick Kling via tomwhite)

HADOOP-6758. MapFile.fix does not allow index interval definition.

(Gianmarco De Francisci Morales via tomwhite)

HADOOP-6926. SocketInputStream incorrectly implements read().

(Todd Lipcon via tomwhite)

HADOOP-6899 RawLocalFileSystem#setWorkingDir() does not work for relative names

(Sanjay Radia)

HADOOP-6496. HttpServer sends wrong content-type for CSS files

(and others). (Todd Lipcon via tomwhite)

HADOOP-7057. IOUtils.readFully and IOUtils.skipFully have typo in

exception creation's message. (cos)

HADOOP-7038. saveVersion script includes an additional \r while running

whoami under windows. (Wang Xu via cos)

HADOOP-7082. Configuration.writeXML should not hold lock while outputting

(todd)

HADOOP-7070. JAAS configuration should delegate unknown application names

to pre-existing configuration. (todd)

HADOOP-7087. SequenceFile.createWriter ignores FileSystem parameter (todd)

HADOOP-7091. reloginFromKeytab() should happen even if TGT can't be found.

(Kan Zhang via jghoman)

HADOOP-7100. Fix build to not refer to contrib/ec2 removed by HADOOP-6811

(todd)

HADOOP-7097. JAVA\_LIBRARY\_PATH missing base directory. (Noah Watkins via

todd)

HADOOP-7093. Servlets should default to text/plain (todd)

HADOOP-7089. Fix link resolution logic in hadoop-config.sh. (eli)

HADOOP-7046. Fix Findbugs warning in Configuration. (Po Cheung via shv)

HADOOP-7118. Fix NPE in Configuration.writeXml (todd)

HADOOP-7122. Fix thread leak when shell commands time out. (todd)

HADOOP-7126. Fix file permission setting for RawLocalFileSystem on Windows.

(Po Cheung via shv)

HADOOP-6642. Fix javac, javadoc, findbugs warnings related to security work.

(Chris Douglas, Po Cheung via shv)

HADOOP-7140. IPC Reader threads do not stop when server stops (todd)

HADOOP-7094. hadoop.css got lost during project split (cos)

HADOOP-7145. Configuration.getLocalPath should trim whitespace from

the provided directories. (todd)

HADOOP-7156. Workaround for unsafe implementations of getpwuid\_r (todd)

HADOOP-6898. FileSystem.copyToLocal creates files with 777 permissions.

(Aaron T. Myers via tomwhite)

HADOOP-7229. Do not default to an absolute path for kinit in Kerberos

auto-renewal thread. (Aaron T. Myers via todd)

HADOOP-7172. SecureIO should not check owner on non-secure

clusters that have no native support. (todd via eli)

HADOOP-7184. Remove deprecated config local.cache.size from

core-default.xml (todd)

HADOOP-7245. FsConfig should use constants in CommonConfigurationKeys.

(tomwhite via eli)

HADOOP-7068. Ivy resolve force mode should be turned off by default.

(Luke Lu via tomwhite)

HADOOP-7296. The FsPermission(FsPermission) constructor does not use the

sticky bit. (Siddharth Seth via tomwhite)

HADOOP-7300. Configuration methods that return collections are inconsistent

about mutability. (todd)

HADOOP-7305. Eclipse project classpath should include tools.jar from JDK.

(Niels Basjes via todd)

HADOOP-7318. MD5Hash factory should reset the digester it returns.

(todd via eli)

HADOOP-7287. Configuration deprecation mechanism doesn't work properly for

GenericOptionsParser and Tools. (Aaron T. Myers via todd)

HADOOP-7146. RPC server leaks file descriptors (todd)

HADOOP-7276. Hadoop native builds fail on ARM due to -m32 (Trevor Robinson

via eli)

HADOOP-7121. Exceptions while serializing IPC call responses are not

handled well. (todd)

HADOOP-7351 Regression: HttpServer#getWebAppsPath used to be protected

so subclasses could supply alternate webapps path but it was made private

by HADOOP-6461 (Stack)

HADOOP-7349. HADOOP-7121 accidentally disabled some tests in TestIPC.

(todd)

HADOOP-7390. VersionInfo not generated properly in git after unsplit. (todd

via atm)

HADOOP-7568. SequenceFile should not print into stdout.

(Plamen Jeliazkov via shv)

HADOOP-7663. Fix TestHDFSTrash failure. (Mayank Bansal via shv)

HADOOP-7457. Remove out-of-date Chinese language documentation.

(Jakob Homan via eli)

HADOOP-7783. Add more symlink tests that cover intermediate links. (eli)

Release 0.21.1 - Unreleased

IMPROVEMENTS

HADOOP-6934. Test for ByteWritable comparator.

(Johannes Zillmann via Eli Collins)

HADOOP-6786. test-patch needs to verify Herriot integrity (cos)

HADOOP-7177. CodecPool should report which compressor it is using.

(Allen Wittenauer via eli)

BUG FIXES

HADOOP-6925. BZip2Codec incorrectly implements read().

(Todd Lipcon via Eli Collins)

HADOOP-6833. IPC leaks call parameters when exceptions thrown.

(Todd Lipcon via Eli Collins)

HADOOP-6971. Clover build doesn't generate per-test coverage (cos)

HADOOP-6993. Broken link on cluster setup page of docs. (eli)

HADOOP-6944. [Herriot] Implement a functionality for getting proxy users

definitions like groups and hosts. (Vinay Thota via cos)

HADOOP-6954. Sources JARs are not correctly published to the Maven

repository. (tomwhite)

HADOOP-7052. misspelling of threshold in conf/log4j.properties.

(Jingguo Yao via eli)

HADOOP-7053. wrong FSNamesystem Audit logging setting in

conf/log4j.properties. (Jingguo Yao via eli)

HADOOP-7120. Fix a syntax error in test-patch.sh. (szetszwo)

HADOOP-7162. Rmove a duplicated call FileSystem.listStatus(..) in FsShell.

(Alexey Diomin via szetszwo)

HADOOP-7117. Remove fs.checkpoint.\* from core-default.xml and replace

fs.checkpoint.\* with dfs.namenode.checkpoint.\* in documentations.

(Harsh J Chouraria via szetszwo)

HADOOP-7193. Correct the "fs -touchz" command help message.

(Uma Maheswara Rao G via szetszwo)

HADOOP-7174. Null is displayed in the "fs -copyToLocal" command.

(Uma Maheswara Rao G via szetszwo)

HADOOP-7194. Fix resource leak in IOUtils.copyBytes(..).

(Devaraj K via szetszwo)

HADOOP-7183. WritableComparator.get should not cache comparator objects.

(tomwhite via eli)

Release 0.21.0 - 2010-08-13

INCOMPATIBLE CHANGES

HADOOP-4895. Remove deprecated methods DFSClient.getHints(..) and

DFSClient.isDirectory(..). (szetszwo)

HADOOP-4941. Remove deprecated FileSystem methods: getBlockSize(Path f),

getLength(Path f) and getReplication(Path src). (szetszwo)

HADOOP-4648. Remove obsolete, deprecated InMemoryFileSystem and

ChecksumDistributedFileSystem. (cdouglas via szetszwo)

HADOOP-4940. Remove a deprecated method FileSystem.delete(Path f). (Enis

Soztutar via szetszwo)

HADOOP-4010. Change semantics for LineRecordReader to read an additional

line per split- rather than moving back one character in the stream- to

work with splittable compression codecs. (Abdul Qadeer via cdouglas)

HADOOP-5094. Show hostname and separate live/dead datanodes in DFSAdmin

report. (Jakob Homan via szetszwo)

HADOOP-4942. Remove deprecated FileSystem methods getName() and

getNamed(String name, Configuration conf). (Jakob Homan via szetszwo)

HADOOP-5486. Removes the CLASSPATH string from the command line and instead

exports it in the environment. (Amareshwari Sriramadasu via ddas)

HADOOP-2827. Remove deprecated NetUtils::getServerAddress. (cdouglas)

HADOOP-5681. Change examples RandomWriter and RandomTextWriter to

use new mapreduce API. (Amareshwari Sriramadasu via sharad)

HADOOP-5680. Change org.apache.hadoop.examples.SleepJob to use new

mapreduce api. (Amareshwari Sriramadasu via sharad)

HADOOP-5699. Change org.apache.hadoop.examples.PiEstimator to use

new mapreduce api. (Amareshwari Sriramadasu via sharad)

HADOOP-5720. Introduces new task types - JOB\_SETUP, JOB\_CLEANUP

and TASK\_CLEANUP. Removes the isMap methods from TaskID/TaskAttemptID

classes. (ddas)

HADOOP-5668. Change TotalOrderPartitioner to use new API. (Amareshwari

Sriramadasu via cdouglas)

HADOOP-5738. Split "waiting\_tasks" JobTracker metric into waiting maps and

waiting reduces. (Sreekanth Ramakrishnan via cdouglas)

HADOOP-5679. Resolve findbugs warnings in core/streaming/pipes/examples.

(Jothi Padmanabhan via sharad)

HADOOP-4359. Support for data access authorization checking on Datanodes.

(Kan Zhang via rangadi)

HADOOP-5690. Change org.apache.hadoop.examples.DBCountPageView to use

new mapreduce api. (Amareshwari Sriramadasu via sharad)

HADOOP-5694. Change org.apache.hadoop.examples.dancing to use new

mapreduce api. (Amareshwari Sriramadasu via sharad)

HADOOP-5696. Change org.apache.hadoop.examples.Sort to use new

mapreduce api. (Amareshwari Sriramadasu via sharad)

HADOOP-5698. Change org.apache.hadoop.examples.MultiFileWordCount to

use new mapreduce api. (Amareshwari Sriramadasu via sharad)

HADOOP-5913. Provide ability to an administrator to stop and start

job queues. (Rahul Kumar Singh and Hemanth Yamijala via yhemanth)

MAPREDUCE-711. Removed Distributed Cache from Common, to move it

under Map/Reduce. (Vinod Kumar Vavilapalli via yhemanth)

HADOOP-6201. Change FileSystem::listStatus contract to throw

FileNotFoundException if the directory does not exist, rather than letting

this be implementation-specific. (Jakob Homan via cdouglas)

HADOOP-6230. Moved process tree and memory calculator related classes

from Common to Map/Reduce. (Vinod Kumar Vavilapalli via yhemanth)

HADOOP-6203. FsShell rm/rmr error message indicates exceeding Trash quota

and suggests using -skpTrash, when moving to trash fails.

(Boris Shkolnik via suresh)

HADOOP-6303. Eclipse .classpath template has outdated jar files and is

missing some new ones. (cos)

HADOOP-6396. Fix uninformative exception message when unable to parse

umask. (jghoman)

HADOOP-6299. Reimplement the UserGroupInformation to use the OS

specific and Kerberos JAAS login. (omalley)

HADOOP-6686. Remove redundant exception class name from the exception

message for the exceptions thrown at RPC client. (suresh)

HADOOP-6701. Fix incorrect exit codes returned from chmod, chown and chgrp

commands from FsShell. (Ravi Phulari via suresh)

NEW FEATURES

HADOOP-6332. Large-scale Automated Test Framework. (sharad, Sreekanth

Ramakrishnan, at all via cos)

HADOOP-4268. Change fsck to use ClientProtocol methods so that the

corresponding permission requirement for running the ClientProtocol

methods will be enforced. (szetszwo)

HADOOP-3953. Implement sticky bit for directories in HDFS. (Jakob Homan

via szetszwo)

HADOOP-4368. Implement df in FsShell to show the status of a FileSystem.

(Craig Macdonald via szetszwo)

HADOOP-3741. Add a web ui to the SecondaryNameNode for showing its status.

(szetszwo)

HADOOP-5018. Add pipelined writers to Chukwa. (Ari Rabkin via cdouglas)

HADOOP-5052. Add an example computing exact digits of pi using the

Bailey-Borwein-Plouffe algorithm. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-4927. Adds a generic wrapper around outputformat to allow creation of

output on demand (Jothi Padmanabhan via ddas)

HADOOP-5144. Add a new DFSAdmin command for changing the setting of restore

failed storage replicas in namenode. (Boris Shkolnik via szetszwo)

HADOOP-5258. Add a new DFSAdmin command to print a tree of the rack and

datanode topology as seen by the namenode. (Jakob Homan via szetszwo)

HADOOP-4756. A command line tool to access JMX properties on NameNode

and DataNode. (Boris Shkolnik via rangadi)

HADOOP-4539. Introduce backup node and checkpoint node. (shv)

HADOOP-5363. Add support for proxying connections to multiple clusters with

different versions to hdfsproxy. (Zhiyong Zhang via cdouglas)

HADOOP-5528. Add a configurable hash partitioner operating on ranges of

BinaryComparable keys. (Klaas Bosteels via shv)

HADOOP-5257. HDFS servers may start and stop external components through

a plugin interface. (Carlos Valiente via dhruba)

HADOOP-5450. Add application-specific data types to streaming's typed bytes

interface. (Klaas Bosteels via omalley)

HADOOP-5518. Add contrib/mrunit, a MapReduce unit test framework.

(Aaron Kimball via cutting)

HADOOP-5469. Add /metrics servlet to daemons, providing metrics

over HTTP as either text or JSON. (Philip Zeyliger via cutting)

HADOOP-5467. Introduce offline fsimage image viewer. (Jakob Homan via shv)

HADOOP-5752. Add a new hdfs image processor, Delimited, to oiv. (Jakob

Homan via szetszwo)

HADOOP-5266. Adds the capability to do mark/reset of the reduce values

iterator in the Context object API. (Jothi Padmanabhan via ddas)

HADOOP-5745. Allow setting the default value of maxRunningJobs for all

pools. (dhruba via matei)

HADOOP-5643. Adds a way to decommission TaskTrackers while the JobTracker

is running. (Amar Kamat via ddas)

HADOOP-4829. Allow FileSystem shutdown hook to be disabled.

(Todd Lipcon via tomwhite)

HADOOP-5815. Sqoop: A database import tool for Hadoop.

(Aaron Kimball via tomwhite)

HADOOP-4861. Add disk usage with human-readable size (-duh).

(Todd Lipcon via tomwhite)

HADOOP-5844. Use mysqldump when connecting to local mysql instance in Sqoop.

(Aaron Kimball via tomwhite)

HADOOP-5976. Add a new command, classpath, to the hadoop script. (Owen

O'Malley and Gary Murry via szetszwo)

HADOOP-6120. Add support for Avro specific and reflect data.

(sharad via cutting)

HADOOP-6226. Moves BoundedByteArrayOutputStream from the tfile package to

the io package and makes it available to other users (MAPREDUCE-318).

(Jothi Padmanabhan via ddas)

HADOOP-6105. Adds support for automatically handling deprecation of

configuration keys. (V.V.Chaitanya Krishna via yhemanth)

HADOOP-6235. Adds new method to FileSystem for clients to get server

defaults. (Kan Zhang via suresh)

HADOOP-6234. Add new option dfs.umaskmode to set umask in configuration

to use octal or symbolic instead of decimal. (Jakob Homan via suresh)

HADOOP-5073. Add annotation mechanism for interface classification.

(Jakob Homan via suresh)

HADOOP-4012. Provide splitting support for bzip2 compressed files. (Abdul

Qadeer via cdouglas)

HADOOP-6246. Add backward compatibility support to use deprecated decimal

umask from old configuration. (Jakob Homan via suresh)

HADOOP-4952. Add new improved file system interface FileContext for the

application writer (Sanjay Radia via suresh)

HADOOP-6170. Add facility to tunnel Avro RPCs through Hadoop RPCs.

This permits one to take advantage of both Avro's RPC versioning

features and Hadoop's proven RPC scalability. (cutting)

HADOOP-6267. Permit building contrib modules located in external

source trees. (Todd Lipcon via cutting)

HADOOP-6240. Add new FileContext rename operation that posix compliant

that allows overwriting existing destination. (suresh)

HADOOP-6204. Implementing aspects development and fault injeciton

framework for Hadoop (cos)

HADOOP-6313. Implement Syncable interface in FSDataOutputStream to expose

flush APIs to application users. (Hairong Kuang via suresh)

HADOOP-6284. Add a new parameter, HADOOP\_JAVA\_PLATFORM\_OPTS, to

hadoop-config.sh so that it allows setting java command options for

JAVA\_PLATFORM. (Koji Noguchi via szetszwo)

HADOOP-6337. Updates FilterInitializer class to be more visible,

and the init of the class is made to take a Configuration argument.

(Jakob Homan via ddas)

Hadoop-6223. Add new file system interface AbstractFileSystem with

implementation of some file systems that delegate to old FileSystem.

(Sanjay Radia via suresh)

HADOOP-6433. Introduce asychronous deletion of files via a pool of

threads. This can be used to delete files in the Distributed

Cache. (Zheng Shao via dhruba)

HADOOP-6415. Adds a common token interface for both job token and

delegation token. (Kan Zhang via ddas)

HADOOP-6408. Add a /conf servlet to dump running configuration.

(Todd Lipcon via tomwhite)

HADOOP-6520. Adds APIs to read/write Token and secret keys. Also

adds the automatic loading of tokens into UserGroupInformation

upon login. The tokens are read from a file specified in the

environment variable. (ddas)

HADOOP-6419. Adds SASL based authentication to RPC.

(Kan Zhang via ddas)

HADOOP-6510. Adds a way for superusers to impersonate other users

in a secure environment. (Jitendra Nath Pandey via ddas)

HADOOP-6421. Adds Symbolic links to FileContext, AbstractFileSystem.

It also adds a limited implementation for the local file system

(RawLocalFs) that allows local symlinks. (Eli Collins via Sanjay Radia)

HADOOP-6577. Add hidden configuration option "ipc.server.max.response.size"

to change the default 1 MB, the maximum size when large IPC handler

response buffer is reset. (suresh)

HADOOP-6568. Adds authorization for the default servlets.

(Vinod Kumar Vavilapalli via ddas)

HADOOP-6586. Log authentication and authorization failures and successes

for RPC (boryas)

HADOOP-6580. UGI should contain authentication method. (jnp via boryas)

HADOOP-6657. Add a capitalization method to StringUtils for MAPREDUCE-1545.

(Luke Lu via Steve Loughran)

HADOOP-6692. Add FileContext#listStatus that returns an iterator.

(hairong)

HADOOP-6869. Functionality to create file or folder on a remote daemon

side (Vinay Thota via cos)

IMPROVEMENTS

HADOOP-6798. Align Ivy version for all Hadoop subprojects. (cos)

HADOOP-6777. Implement a functionality for suspend and resume a process.

(Vinay Thota via cos)

HADOOP-6772. Utilities for system tests specific. (Vinay Thota via cos)

HADOOP-6771. Herriot's artifact id for Maven deployment should be set to

hadoop-core-instrumented (cos)

HADOOP-6752. Remote cluster control functionality needs JavaDocs

improvement (Balaji Rajagopalan via cos).

HADOOP-4565. Added CombineFileInputFormat to use data locality information

to create splits. (dhruba via zshao)

HADOOP-4936. Improvements to TestSafeMode. (shv)

HADOOP-4985. Remove unnecessary "throw IOException" declarations in

FSDirectory related methods. (szetszwo)

HADOOP-5017. Change NameNode.namesystem declaration to private. (szetszwo)

HADOOP-4794. Add branch information from the source version control into

the version information that is compiled into Hadoop. (cdouglas via

omalley)

HADOOP-5070. Increment copyright year to 2009, remove assertions of ASF

copyright to licensed files. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-5037. Deprecate static FSNamesystem.getFSNamesystem(). (szetszwo)

HADOOP-5088. Include releaseaudit target as part of developer test-patch

target. (Giridharan Kesavan via nigel)

HADOOP-2721. Uses setsid when creating new tasks so that subprocesses of

this process will be within this new session (and this process will be

the process leader for all the subprocesses). Killing the process leader,

or the main Java task in Hadoop's case, kills the entire subtree of

processes. (Ravi Gummadi via ddas)

HADOOP-5097. Remove static variable JspHelper.fsn, a static reference to

a non-singleton FSNamesystem object. (szetszwo)

HADOOP-3327. Improves handling of READ\_TIMEOUT during map output copying.

(Amareshwari Sriramadasu via ddas)

HADOOP-5124. Choose datanodes randomly instead of starting from the first

datanode for providing fairness. (hairong via szetszwo)

HADOOP-4930. Implement a Linux native executable that can be used to

launch tasks as users. (Sreekanth Ramakrishnan via yhemanth)

HADOOP-5122. Fix format of fs.default.name value in libhdfs test conf.

(Craig Macdonald via tomwhite)

HADOOP-5038. Direct daemon trace to debug log instead of stdout. (Jerome

Boulon via cdouglas)

HADOOP-5101. Improve packaging by adding 'all-jars' target building core,

tools, and example jars. Let findbugs depend on this rather than the 'tar'

target. (Giridharan Kesavan via cdouglas)

HADOOP-4868. Splits the hadoop script into three parts - bin/hadoop,

bin/mapred and bin/hdfs. (Sharad Agarwal via ddas)

HADOOP-1722. Adds support for TypedBytes and RawBytes in Streaming.

(Klaas Bosteels via ddas)

HADOOP-4220. Changes the JobTracker restart tests so that they take much

less time. (Amar Kamat via ddas)

HADOOP-4885. Try to restore failed name-node storage directories at

checkpoint time. (Boris Shkolnik via shv)

HADOOP-5209. Update year to 2009 for javadoc. (szetszwo)

HADOOP-5279. Remove unnecessary targets from test-patch.sh.

(Giridharan Kesavan via nigel)

HADOOP-5120. Remove the use of FSNamesystem.getFSNamesystem() from

UpgradeManagerNamenode and UpgradeObjectNamenode. (szetszwo)

HADOOP-5222. Add offset to datanode clienttrace. (Lei Xu via cdouglas)

HADOOP-5240. Skip re-building javadoc when it is already

up-to-date. (Aaron Kimball via cutting)

HADOOP-5042. Add a cleanup stage to log rollover in Chukwa appender.

(Jerome Boulon via cdouglas)

HADOOP-5264. Removes redundant configuration object from the TaskTracker.

(Sharad Agarwal via ddas)

HADOOP-5232. Enable patch testing to occur on more than one host.

(Giri Kesavan via nigel)

HADOOP-4546. Fix DF reporting for AIX. (Bill Habermaas via cdouglas)

HADOOP-5023. Add Tomcat support to HdfsProxy. (Zhiyong Zhang via cdouglas)

HADOOP-5317. Provide documentation for LazyOutput Feature.

(Jothi Padmanabhan via johan)

HADOOP-5455. Document rpc metrics context to the extent dfs, mapred, and

jvm contexts are documented. (Philip Zeyliger via cdouglas)

HADOOP-5358. Provide scripting functionality to the synthetic load

generator. (Jakob Homan via hairong)

HADOOP-5442. Paginate jobhistory display and added some search

capabilities. (Amar Kamat via acmurthy)

HADOOP-4842. Streaming now allows specifiying a command for the combiner.

(Amareshwari Sriramadasu via ddas)

HADOOP-5196. avoiding unnecessary byte[] allocation in

SequenceFile.CompressedBytes and SequenceFile.UncompressedBytes.

(hong tang via mahadev)

HADOOP-4655. New method FileSystem.newInstance() that always returns

a newly allocated FileSystem object. (dhruba)

HADOOP-4788. Set Fair scheduler to assign both a map and a reduce on each

heartbeat by default. (matei)

HADOOP-5491. In contrib/index, better control memory usage.

(Ning Li via cutting)

HADOOP-5423. Include option of preserving file metadata in

SequenceFile::sort. (Michael Tamm via cdouglas)

HADOOP-5331. Add support for KFS appends. (Sriram Rao via cdouglas)

HADOOP-4365. Make Configuration::getProps protected in support of

meaningful subclassing. (Steve Loughran via cdouglas)

HADOOP-2413. Remove the static variable FSNamesystem.fsNamesystemObject.

(Konstantin Shvachko via szetszwo)

HADOOP-4584. Improve datanode block reports and associated file system

scan to avoid interefering with normal datanode operations.

(Suresh Srinivas via rangadi)

HADOOP-5502. Documentation for backup and checkpoint nodes.

(Jakob Homan via shv)

HADOOP-5485. Mask actions in the fair scheduler's servlet UI based on

value of webinterface.private.actions.

(Vinod Kumar Vavilapalli via yhemanth)

HADOOP-5581. HDFS should throw FileNotFoundException when while opening

a file that does not exist. (Brian Bockelman via rangadi)

HADOOP-5509. PendingReplicationBlocks does not start monitor in the

constructor. (shv)

HADOOP-5494. Modify sorted map output merger to lazily read values,

rather than buffering at least one record for each segment. (Devaraj Das

via cdouglas)

HADOOP-5396. Provide ability to refresh queue ACLs in the JobTracker

without having to restart the daemon.

(Sreekanth Ramakrishnan and Vinod Kumar Vavilapalli via yhemanth)

HADOOP-4490. Provide ability to run tasks as job owners.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-5697. Change org.apache.hadoop.examples.Grep to use new

mapreduce api. (Amareshwari Sriramadasu via sharad)

HADOOP-5625. Add operation duration to clienttrace. (Lei Xu via cdouglas)

HADOOP-5705. Improve TotalOrderPartitioner efficiency by updating the trie

construction. (Dick King via cdouglas)

HADOOP-5589. Eliminate source limit of 64 for map-side joins imposed by

TupleWritable encoding. (Jingkei Ly via cdouglas)

HADOOP-5734. Correct block placement policy description in HDFS

Design document. (Konstantin Boudnik via shv)

HADOOP-5657. Validate data in TestReduceFetch to improve merge test

coverage. (cdouglas)

HADOOP-5613. Change S3Exception to checked exception.

(Andrew Hitchcock via tomwhite)

HADOOP-5717. Create public enum class for the Framework counters in

org.apache.hadoop.mapreduce. (Amareshwari Sriramadasu via sharad)

HADOOP-5217. Split AllTestDriver for core, hdfs and mapred. (sharad)

HADOOP-5364. Add certificate expiration warning to HsftpFileSystem and HDFS

proxy. (Zhiyong Zhang via cdouglas)

HADOOP-5733. Add map/reduce slot capacity and blacklisted capacity to

JobTracker metrics. (Sreekanth Ramakrishnan via cdouglas)

HADOOP-5596. Add EnumSetWritable. (He Yongqiang via szetszwo)

HADOOP-5727. Simplify hashcode for ID types. (Shevek via cdouglas)

HADOOP-5500. In DBOutputFormat, where field names are absent permit the

number of fields to be sufficient to construct the select query. (Enis

Soztutar via cdouglas)

HADOOP-5081. Split TestCLI into HDFS, Mapred and Core tests. (sharad)

HADOOP-5015. Separate block management code from FSNamesystem. (Suresh

Srinivas via szetszwo)

HADOOP-5080. Add new test cases to TestMRCLI and TestHDFSCLI

(V.Karthikeyan via nigel)

HADOOP-5135. Splits the tests into different directories based on the

package. Four new test targets have been defined - run-test-core,

run-test-mapred, run-test-hdfs and run-test-hdfs-with-mr.

(Sharad Agarwal via ddas)

HADOOP-5771. Implements unit tests for LinuxTaskController.

(Sreekanth Ramakrishnan and Vinod Kumar Vavilapalli via yhemanth)

HADOOP-5419. Provide a facility to query the Queue ACLs for the

current user.

(Rahul Kumar Singh via yhemanth)

HADOOP-5780. Improve per block message prited by "-metaSave" in HDFS.

(Raghu Angadi)

HADOOP-5823. Added a new class DeprecatedUTF8 to help with removing

UTF8 related javac warnings. These warnings are removed in

FSEditLog.java as a use case. (Raghu Angadi)

HADOOP-5824. Deprecate DataTransferProtocol.OP\_READ\_METADATA and remove

the corresponding unused codes. (Kan Zhang via szetszwo)

HADOOP-5721. Factor out EditLogFileInputStream and EditLogFileOutputStream

into independent classes. (Luca Telloli & Flavio Junqueira via shv)

HADOOP-5838. Fix a few javac warnings in HDFS. (Raghu Angadi)

HADOOP-5854. Fix a few "Inconsistent Synchronization" warnings in HDFS.

(Raghu Angadi)

HADOOP-5369. Small tweaks to reduce MapFile index size. (Ben Maurer

via sharad)

HADOOP-5858. Eliminate UTF8 and fix warnings in test/hdfs-with-mr package.

(shv)

HADOOP-5866. Move DeprecatedUTF8 from o.a.h.io to o.a.h.hdfs since it may

not be used outside hdfs. (Raghu Angadi)

HADOOP-5857. Move normal java methods from hdfs .jsp files to .java files.

(szetszwo)

HADOOP-5873. Remove deprecated methods randomDataNode() and

getDatanodeByIndex(..) in FSNamesystem. (szetszwo)

HADOOP-5572. Improves the progress reporting for the sort phase for both

maps and reduces. (Ravi Gummadi via ddas)

HADOOP-5839. Fix EC2 scripts to allow remote job submission.

(Joydeep Sen Sarma via tomwhite)

HADOOP-5877. Fix javac warnings in TestHDFSServerPorts, TestCheckpoint,

TestNameEditsConfig, TestStartup and TestStorageRestore.

(Jakob Homan via shv)

HADOOP-5438. Provide a single FileSystem method to create or

open-for-append to a file. (He Yongqiang via dhruba)

HADOOP-5472. Change DistCp to support globbing of input paths. (Dhruba

Borthakur and Rodrigo Schmidt via szetszwo)

HADOOP-5175. Don't unpack libjars on classpath. (Todd Lipcon via tomwhite)

HADOOP-5620. Add an option to DistCp for preserving modification and access

times. (Rodrigo Schmidt via szetszwo)

HADOOP-5664. Change map serialization so a lock is obtained only where

contention is possible, rather than for each write. (cdouglas)

HADOOP-5896. Remove the dependency of GenericOptionsParser on

Option.withArgPattern. (Giridharan Kesavan and Sharad Agarwal via

sharad)

HADOOP-5784. Makes the number of heartbeats that should arrive a second

at the JobTracker configurable. (Amareshwari Sriramadasu via ddas)

HADOOP-5955. Changes TestFileOuputFormat so that is uses LOCAL\_MR

instead of CLUSTER\_MR. (Jothi Padmanabhan via das)

HADOOP-5948. Changes TestJavaSerialization to use LocalJobRunner

instead of MiniMR/DFS cluster. (Jothi Padmanabhan via das)

HADOOP-2838. Add mapred.child.env to pass environment variables to

tasktracker's child processes. (Amar Kamat via sharad)

HADOOP-5961. DataNode process understand generic hadoop command line

options (like -Ddfs.property=value). (Raghu Angadi)

HADOOP-5938. Change org.apache.hadoop.mapred.jobcontrol to use new

api. (Amareshwari Sriramadasu via sharad)

HADOOP-2141. Improves the speculative execution heuristic. The heuristic

is currently based on the progress-rates of tasks and the expected time

to complete. Also, statistics about trackers are collected, and speculative

tasks are not given to the ones deduced to be slow.

(Andy Konwinski and ddas)

HADOOP-5952. Change "-1 tests included" wording in test-patch.sh.

(Gary Murry via szetszwo)

HADOOP-6106. Provides an option in ShellCommandExecutor to timeout

commands that do not complete within a certain amount of time.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-5925. EC2 scripts should exit on error. (tomwhite)

HADOOP-6109. Change Text to grow its internal buffer exponentially, rather

than the max of the current length and the proposed length to improve

performance reading large values. (thushara wijeratna via cdouglas)

HADOOP-2366. Support trimmed strings in Configuration. (Michele Catasta

via szetszwo)

HADOOP-6099. The RPC module can be configured to not send period pings.

The default behaviour of sending periodic pings remain unchanged. (dhruba)

HADOOP-6142. Update documentation and use of harchives for relative paths

added in MAPREDUCE-739. (Mahadev Konar via cdouglas)

HADOOP-6148. Implement a fast, pure Java CRC32 calculator which outperforms

java.util.zip.CRC32. (Todd Lipcon and Scott Carey via szetszwo)

HADOOP-6146. Upgrade to JetS3t version 0.7.1. (tomwhite)

HADOOP-6161. Add get/setEnum methods to Configuration. (cdouglas)

HADOOP-6160. Fix releaseaudit target to run on specific directories.

(gkesavan)

HADOOP-6169. Removing deprecated method calls in TFile. (hong tang via

mahadev)

HADOOP-6176. Add a couple package private methods to AccessTokenHandler

for testing. (Kan Zhang via szetszwo)

HADOOP-6182. Fix ReleaseAudit warnings (Giridharan Kesavan and Lee Tucker

via gkesavan)

HADOOP-6173. Change src/native/packageNativeHadoop.sh to package all

native library files. (Hong Tang via szetszwo)

HADOOP-6184. Provide an API to dump Configuration in a JSON format.

(V.V.Chaitanya Krishna via yhemanth)

HADOOP-6224. Add a method to WritableUtils performing a bounded read of an

encoded String. (Jothi Padmanabhan via cdouglas)

HADOOP-6133. Add a caching layer to Configuration::getClassByName to

alleviate a performance regression introduced in a compatibility layer.

(Todd Lipcon via cdouglas)

HADOOP-6252. Provide a method to determine if a deprecated key is set in

config file. (Jakob Homan via suresh)

HADOOP-5879. Read compression level and strategy from Configuration for

gzip compression. (He Yongqiang via cdouglas)

HADOOP-6216. Support comments in host files. (Ravi Phulari and Dmytro

Molkov via szetszwo)

HADOOP-6217. Update documentation for project split. (Corinne Chandel via

omalley)

HADOOP-6268. Add ivy jar to .gitignore. (Todd Lipcon via cdouglas)

HADOOP-6270. Support deleteOnExit in FileContext. (Suresh Srinivas via

szetszwo)

HADOOP-6233. Rename configuration keys towards API standardization and

backward compatibility. (Jithendra Pandey via suresh)

HADOOP-6260. Add additional unit tests for FileContext util methods.

(Gary Murry via suresh).

HADOOP-6309. Change build.xml to run tests with java asserts. (Eli

Collins via szetszwo)

HADOOP-6326. Hundson runs should check for AspectJ warnings and report

failure if any is present (cos)

HADOOP-6329. Add build-fi directory to the ignore lists. (szetszwo)

HADOOP-5107. Use Maven ant tasks to publish the subproject jars.

(Giridharan Kesavan via omalley)

HADOOP-6343. Log unexpected throwable object caught in RPC. (Jitendra Nath

Pandey via szetszwo)

HADOOP-6367. Removes Access Token implementation from common.

(Kan Zhang via ddas)

HADOOP-6395. Upgrade some libraries to be consistent across common, hdfs,

and mapreduce. (omalley)

HADOOP-6398. Build is broken after HADOOP-6395 patch has been applied (cos)

HADOOP-6413. Move TestReflectionUtils to Common. (Todd Lipcon via tomwhite)

HADOOP-6283. Improve the exception messages thrown by

FileUtil$HardLink.getLinkCount(..). (szetszwo)

HADOOP-6279. Add Runtime::maxMemory to JVM metrics. (Todd Lipcon via

cdouglas)

HADOOP-6305. Unify build property names to facilitate cross-projects

modifications (cos)

HADOOP-6312. Remove unnecessary debug logging in Configuration constructor.

(Aaron Kimball via cdouglas)

HADOOP-6366. Reduce ivy console output to ovservable level (cos)

HADOOP-6400. Log errors getting Unix UGI. (Todd Lipcon via tomwhite)

HADOOP-6346. Add support for specifying unpack pattern regex to

RunJar.unJar. (Todd Lipcon via tomwhite)

HADOOP-6422. Make RPC backend plugable, protocol-by-protocol, to

ease evolution towards Avro. (cutting)

HADOOP-5958. Use JDK 1.6 File APIs in DF.java wherever possible.

(Aaron Kimball via tomwhite)

HADOOP-6222. Core doesn't have TestCommonCLI facility. (cos)

HADOOP-6394. Add a helper class to simplify FileContext related tests and

improve code reusability. (Jitendra Nath Pandey via suresh)

HADOOP-4656. Add a user to groups mapping service. (boryas, acmurthy)

HADOOP-6435. Make RPC.waitForProxy with timeout public. (Steve Loughran

via tomwhite)

HADOOP-6472. add tokenCache option to GenericOptionsParser for passing

file with secret keys to a map reduce job. (boryas)

HADOOP-3205. Read multiple chunks directly from FSInputChecker subclass

into user buffers. (Todd Lipcon via tomwhite)

HADOOP-6479. TestUTF8 assertions could fail with better text.

(Steve Loughran via tomwhite)

HADOOP-6155. Deprecate RecordIO anticipating Avro. (Tom White via cdouglas)

HADOOP-6492. Make some Avro serialization APIs public.

(Aaron Kimball via cutting)

HADOOP-6497. Add an adapter for Avro's SeekableInput interface, so

that Avro can read FileSystem data.

(Aaron Kimball via cutting)

HADOOP-6495. Identifier should be serialized after the password is

created In Token constructor (jnp via boryas)

HADOOP-6518. Makes the UGI honor the env var KRB5CCNAME.

(Owen O'Malley via ddas)

HADOOP-6531. Enhance FileUtil with an API to delete all contents of a

directory. (Amareshwari Sriramadasu via yhemanth)

HADOOP-6547. Move DelegationToken into Common, so that it can be used by

MapReduce also. (devaraj via omalley)

HADOOP-6552. Puts renewTGT=true and useTicketCache=true for the keytab

kerberos options. (ddas)

HADOOP-6534. Trim whitespace from directory lists initializing

LocalDirAllocator. (Todd Lipcon via cdouglas)

HADOOP-6559. Makes the RPC client automatically re-login when the SASL

connection setup fails. This is applicable only to keytab based logins.

(Devaraj Das)

HADOOP-6551. Delegation token renewing and cancelling should provide

meaningful exceptions when there are failures instead of returning

false. (omalley)

HADOOP-6583. Captures authentication and authorization metrics. (ddas)

HADOOP-6543. Allows secure clients to talk to unsecure clusters.

(Kan Zhang via ddas)

HADOOP-6579. Provide a mechanism for encoding/decoding Tokens from

a url-safe string and change the commons-code library to 1.4. (omalley)

HADOOP-6596. Add a version field to the AbstractDelegationTokenIdentifier's

serialized value. (omalley)

HADOOP-6573. Support for persistent delegation tokens.

(Jitendra Pandey via shv)

HADOOP-6594. Provide a fetchdt tool via bin/hdfs. (jhoman via acmurthy)

HADOOP-6589. Provide better error messages when RPC authentication fails.

(Kan Zhang via omalley)

HADOOP-6599 Split existing RpcMetrics into RpcMetrics & RpcDetailedMetrics.

(Suresh Srinivas via Sanjay Radia)

HADOOP-6537 Declare more detailed exceptions in FileContext and

AbstractFileSystem (Suresh Srinivas via Sanjay Radia)

HADOOP-6486. fix common classes to work with Avro 1.3 reflection.

(cutting via tomwhite)

HADOOP-6591. HarFileSystem can handle paths with the whitespace characters.

(Rodrigo Schmidt via dhruba)

HADOOP-6407. Have a way to automatically update Eclipse .classpath file

when new libs are added to the classpath through Ivy. (tomwhite)

HADOOP-3659. Patch to allow hadoop native to compile on Mac OS X.

(Colin Evans and Allen Wittenauer via tomwhite)

HADOOP-6471. StringBuffer -> StringBuilder - conversion of references

as necessary. (Kay Kay via tomwhite)

HADOOP-6646. Move HarfileSystem out of Hadoop Common. (mahadev)

HADOOP-6566. Add methods supporting, enforcing narrower permissions on

local daemon directories. (Arun Murthy and Luke Lu via cdouglas)

HADOOP-6705. Fix to work with 1.5 version of jiracli

(Giridharan Kesavan)

HADOOP-6658. Exclude Private elements from generated Javadoc. (tomwhite)

HADOOP-6635. Install/deploy source jars to Maven repo.

(Patrick Angeles via jghoman)

HADOOP-6717. Log levels in o.a.h.security.Groups too high

(Todd Lipcon via jghoman)

HADOOP-6667. RPC.waitForProxy should retry through NoRouteToHostException.

(Todd Lipcon via tomwhite)

HADOOP-6677. InterfaceAudience.LimitedPrivate should take a string not an

enum. (tomwhite)

HADOOP-678. Remove FileContext#isFile, isDirectory, and exists.

(Eli Collins via hairong)

HADOOP-6515. Make maximum number of http threads configurable.

(Scott Chen via zshao)

HADOOP-6563. Add more symlink tests to cover intermediate symlinks

in paths. (Eli Collins via suresh)

HADOOP-6585. Add FileStatus#isDirectory and isFile. (Eli Collins via

tomwhite)

HADOOP-6738. Move cluster\_setup.xml from MapReduce to Common.

(Tom White via tomwhite)

HADOOP-6794. Move configuration and script files post split. (tomwhite)

HADOOP-6403. Deprecate EC2 bash scripts. (tomwhite)

HADOOP-6769. Add an API in FileSystem to get FileSystem instances based

on users(ddas via boryas)

HADOOP-6813. Add a new newInstance method in FileSystem that takes

a "user" as argument (ddas via boryas)

HADOOP-6668. Apply audience and stability annotations to classes in

common. (tomwhite)

HADOOP-6821. Document changes to memory monitoring. (Hemanth Yamijala

via tomwhite)

OPTIMIZATIONS

HADOOP-5595. NameNode does not need to run a replicator to choose a

random DataNode. (hairong)

HADOOP-5603. Improve NameNode's block placement performance. (hairong)

HADOOP-5638. More improvement on block placement performance. (hairong)

HADOOP-6180. NameNode slowed down when many files with same filename

were moved to Trash. (Boris Shkolnik via hairong)

HADOOP-6166. Further improve the performance of the pure-Java CRC32

implementation. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-6271. Add recursive and non recursive create and mkdir to

FileContext. (Sanjay Radia via suresh)

HADOOP-6261. Add URI based tests for FileContext.

(Ravi Pulari via suresh).

HADOOP-6307. Add a new SequenceFile.Reader constructor in order to support

reading on un-closed file. (szetszwo)

HADOOP-6467. Improve the performance on HarFileSystem.listStatus(..).

(mahadev via szetszwo)

HADOOP-6569. FsShell#cat should avoid calling unecessary getFileStatus

before opening a file to read. (hairong)

HADOOP-6689. Add directory renaming test to existing FileContext tests.

(Eli Collins via suresh)

HADOOP-6713. The RPC server Listener thread is a scalability bottleneck.

(Dmytro Molkov via hairong)

BUG FIXES

HADOOP-6748. Removes hadoop.cluster.administrators, cluster administrators

acl is passed as parameter in constructor. (amareshwari)

HADOOP-6828. Herrior uses old way of accessing logs directories (Sreekanth

Ramakrishnan via cos)

HADOOP-6788. [Herriot] Exception exclusion functionality is not working

correctly. (Vinay Thota via cos)

HADOOP-6773. Ivy folder contains redundant files (cos)

HADOOP-5379. CBZip2InputStream to throw IOException on data crc error.

(Rodrigo Schmidt via zshao)

HADOOP-5326. Fixes CBZip2OutputStream data corruption problem.

(Rodrigo Schmidt via zshao)

HADOOP-4963. Fixes a logging to do with getting the location of

map output file. (Amareshwari Sriramadasu via ddas)

HADOOP-2337. Trash should close FileSystem on exit and should not start

emtying thread if disabled. (shv)

HADOOP-5072. Fix failure in TestCodec because testSequenceFileGzipCodec

won't pass without native gzip codec. (Zheng Shao via dhruba)

HADOOP-5050. TestDFSShell.testFilePermissions should not assume umask

setting. (Jakob Homan via szetszwo)

HADOOP-4975. Set classloader for nested mapred.join configs. (Jingkei Ly

via cdouglas)

HADOOP-5078. Remove invalid AMI kernel in EC2 scripts. (tomwhite)

HADOOP-5045. FileSystem.isDirectory() should not be deprecated. (Suresh

Srinivas via szetszwo)

HADOOP-4960. Use datasource time, rather than system time, during metrics

demux. (Eric Yang via cdouglas)

HADOOP-5032. Export conf dir set in config script. (Eric Yang via cdouglas)

HADOOP-5176. Fix a typo in TestDFSIO. (Ravi Phulari via szetszwo)

HADOOP-4859. Distinguish daily rolling output dir by adding a timestamp.

(Jerome Boulon via cdouglas)

HADOOP-4959. Correct system metric collection from top on Redhat 5.1. (Eric

Yang via cdouglas)

HADOOP-5039. Fix log rolling regex to process only the relevant

subdirectories. (Jerome Boulon via cdouglas)

HADOOP-5095. Update Chukwa watchdog to accept config parameter. (Jerome

Boulon via cdouglas)

HADOOP-5147. Correct reference to agent list in Chukwa bin scripts. (Ari

Rabkin via cdouglas)

HADOOP-5148. Fix logic disabling watchdog timer in Chukwa daemon scripts.

(Ari Rabkin via cdouglas)

HADOOP-5100. Append, rather than truncate, when creating log4j metrics in

Chukwa. (Jerome Boulon via cdouglas)

HADOOP-5204. Fix broken trunk compilation on Hudson by letting

task-controller be an independent target in build.xml.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-5212. Fix the path translation problem introduced by HADOOP-4868

running on cygwin. (Sharad Agarwal via omalley)

HADOOP-5226. Add license headers to html and jsp files. (szetszwo)

HADOOP-5172. Disable misbehaving Chukwa unit test until it can be fixed.

(Jerome Boulon via nigel)

HADOOP-4933. Fixes a ConcurrentModificationException problem that shows up

when the history viewer is accessed concurrently.

(Amar Kamat via ddas)

HADOOP-5253. Remove duplicate call to cn-docs target.

(Giri Kesavan via nigel)

HADOOP-5251. Fix classpath for contrib unit tests to include clover jar.

(nigel)

HADOOP-5206. Synchronize "unprotected\*" methods of FSDirectory on the root.

(Jakob Homan via shv)

HADOOP-5292. Fix NPE in KFS::getBlockLocations. (Sriram Rao via lohit)

HADOOP-5219. Adds a new property io.seqfile.local.dir for use by

SequenceFile, which earlier used mapred.local.dir. (Sharad Agarwal

via ddas)

HADOOP-5300. Fix ant javadoc-dev target and the typo in the class name

NameNodeActivtyMBean. (szetszwo)

HADOOP-5218. libhdfs unit test failed because it was unable to

start namenode/datanode. Fixed. (dhruba)

HADOOP-5273. Add license header to TestJobInProgress.java. (Jakob Homan

via szetszwo)

HADOOP-5229. Remove duplicate version variables in build files

(Stefan Groschupf via johan)

HADOOP-5383. Avoid building an unused string in NameNode's

verifyReplication(). (Raghu Angadi)

HADOOP-5347. Create a job output directory for the bbp examples. (szetszwo)

HADOOP-5341. Make hadoop-daemon scripts backwards compatible with the

changes in HADOOP-4868. (Sharad Agarwal via yhemanth)

HADOOP-5456. Fix javadoc links to ClientProtocol#restoreFailedStorage(..).

(Boris Shkolnik via szetszwo)

HADOOP-5458. Remove leftover Chukwa entries from build, etc. (cdouglas)

HADOOP-5386. Modify hdfsproxy unit test to start on a random port,

implement clover instrumentation. (Zhiyong Zhang via cdouglas)

HADOOP-5511. Add Apache License to EditLogBackupOutputStream. (shv)

HADOOP-5507. Fix JMXGet javadoc warnings. (Boris Shkolnik via szetszwo)

HADOOP-5191. Accessing HDFS with any ip or hostname should work as long

as it points to the interface NameNode is listening on. (Raghu Angadi)

HADOOP-5561. Add javadoc.maxmemory parameter to build, preventing OOM

exceptions from javadoc-dev. (Jakob Homan via cdouglas)

HADOOP-5149. Modify HistoryViewer to ignore unfamiliar files in the log

directory. (Hong Tang via cdouglas)

HADOOP-5477. Fix rare failure in TestCLI for hosts returning variations of

'localhost'. (Jakob Homan via cdouglas)

HADOOP-5194. Disables setsid for tasks run on cygwin.

(Ravi Gummadi via ddas)

HADOOP-5322. Fix misleading/outdated comments in JobInProgress.

(Amareshwari Sriramadasu via cdouglas)

HADOOP-5198. Fixes a problem to do with the task PID file being absent and

the JvmManager trying to look for it. (Amareshwari Sriramadasu via ddas)

HADOOP-5464. DFSClient did not treat write timeout of 0 properly.

(Raghu Angadi)

HADOOP-4045. Fix processing of IO errors in EditsLog.

(Boris Shkolnik via shv)

HADOOP-5462. Fixed a double free bug in the task-controller

executable. (Sreekanth Ramakrishnan via yhemanth)

HADOOP-5652. Fix a bug where in-memory segments are incorrectly retained in

memory. (cdouglas)

HADOOP-5533. Recovery duration shown on the jobtracker webpage is

inaccurate. (Amar Kamat via sharad)

HADOOP-5647. Fix TestJobHistory to not depend on /tmp. (Ravi Gummadi

via sharad)

HADOOP-5661. Fixes some findbugs warnings in o.a.h.mapred\* packages and

supresses a bunch of them. (Jothi Padmanabhan via ddas)

HADOOP-5704. Fix compilation problems in TestFairScheduler and

TestCapacityScheduler. (Chris Douglas via szetszwo)

HADOOP-5650. Fix safemode messages in the Namenode log. (Suresh Srinivas

via szetszwo)

HADOOP-5488. Removes the pidfile management for the Task JVM from the

framework and instead passes the PID back and forth between the

TaskTracker and the Task processes. (Ravi Gummadi via ddas)

HADOOP-5658. Fix Eclipse templates. (Philip Zeyliger via shv)

HADOOP-5709. Remove redundant synchronization added in HADOOP-5661. (Jothi

Padmanabhan via cdouglas)

HADOOP-5715. Add conf/mapred-queue-acls.xml to the ignore lists.

(szetszwo)

HADOOP-5592. Fix typo in Streaming doc in reference to GzipCodec.

(Corinne Chandel via tomwhite)

HADOOP-5656. Counter for S3N Read Bytes does not work. (Ian Nowland

via tomwhite)

HADOOP-5406. Fix JNI binding for ZlibCompressor::setDictionary. (Lars

Francke via cdouglas)

HADOOP-3426. Fix/provide handling when DNS lookup fails on the loopback

address. Also cache the result of the lookup. (Steve Loughran via cdouglas)

HADOOP-5476. Close the underlying InputStream in SequenceFile::Reader when

the constructor throws an exception. (Michael Tamm via cdouglas)

HADOOP-5675. Do not launch a job if DistCp has no work to do. (Tsz Wo

(Nicholas), SZE via cdouglas)

HADOOP-5737. Fixes a problem in the way the JobTracker used to talk to

other daemons like the NameNode to get the job's files. Also adds APIs

in the JobTracker to get the FileSystem objects as per the JobTracker's

configuration. (Amar Kamat via ddas)

HADOOP-5648. Not able to generate gridmix.jar on the already compiled

version of hadoop. (gkesavan)

HADOOP-5808. Fix import never used javac warnings in hdfs. (szetszwo)

HADOOP-5203. TT's version build is too restrictive. (Rick Cox via sharad)

HADOOP-5818. Revert the renaming from FSNamesystem.checkSuperuserPrivilege

to checkAccess by HADOOP-5643. (Amar Kamat via szetszwo)

HADOOP-5820. Fix findbugs warnings for http related codes in hdfs.

(szetszwo)

HADOOP-5822. Fix javac warnings in several dfs tests related to unncessary

casts. (Jakob Homan via szetszwo)

HADOOP-5842. Fix a few javac warnings under packages fs and util.

(Hairong Kuang via szetszwo)

HADOOP-5845. Build successful despite test failure on test-core target.

(sharad)

HADOOP-5314. Prevent unnecessary saving of the file system image during

name-node startup. (Jakob Homan via shv)

HADOOP-5855. Fix javac warnings for DisallowedDatanodeException and

UnsupportedActionException. (szetszwo)

HADOOP-5582. Fixes a problem in Hadoop Vaidya to do with reading

counters from job history files. (Suhas Gogate via ddas)

HADOOP-5829. Fix javac warnings found in ReplicationTargetChooser,

FSImage, Checkpointer, SecondaryNameNode and a few other hdfs classes.

(Suresh Srinivas via szetszwo)

HADOOP-5835. Fix findbugs warnings found in Block, DataNode, NameNode and

a few other hdfs classes. (Suresh Srinivas via szetszwo)

HADOOP-5853. Undeprecate HttpServer.addInternalServlet method. (Suresh

Srinivas via szetszwo)

HADOOP-5801. Fixes the problem: If the hosts file is changed across restart

then it should be refreshed upon recovery so that the excluded hosts are

lost and the maps are re-executed. (Amar Kamat via ddas)

HADOOP-5841. Resolve findbugs warnings in DistributedFileSystem,

DatanodeInfo, BlocksMap, DataNodeDescriptor. (Jakob Homan via szetszwo)

HADOOP-5878. Fix import and Serializable javac warnings found in hdfs jsp.

(szetszwo)

HADOOP-5782. Revert a few formatting changes introduced in HADOOP-5015.

(Suresh Srinivas via rangadi)

HADOOP-5687. NameNode throws NPE if fs.default.name is the default value.

(Philip Zeyliger via shv)

HADOOP-5867. Fix javac warnings found in NNBench and NNBenchWithoutMR.

(Konstantin Boudnik via szetszwo)

HADOOP-5728. Fixed FSEditLog.printStatistics IndexOutOfBoundsException.

(Wang Xu via johan)

HADOOP-5847. Fixed failing Streaming unit tests (gkesavan)

HADOOP-5252. Streaming overrides -inputformat option (Klaas Bosteels

via sharad)

HADOOP-5710. Counter MAP\_INPUT\_BYTES missing from new mapreduce api.

(Amareshwari Sriramadasu via sharad)

HADOOP-5809. Fix job submission, broken by errant directory creation.

(Sreekanth Ramakrishnan and Jothi Padmanabhan via cdouglas)

HADOOP-5635. Change distributed cache to work with other distributed file

systems. (Andrew Hitchcock via tomwhite)

HADOOP-5856. Fix "unsafe multithreaded use of DateFormat" findbugs warning

in DataBlockScanner. (Kan Zhang via szetszwo)

HADOOP-4864. Fixes a problem to do with -libjars with multiple jars when

client and cluster reside on different OSs. (Amareshwari Sriramadasu via

ddas)

HADOOP-5623. Fixes a problem to do with status messages getting overwritten

in streaming jobs. (Rick Cox and Jothi Padmanabhan via ddas)

HADOOP-5895. Fixes computation of count of merged bytes for logging.

(Ravi Gummadi via ddas)

HADOOP-5805. problem using top level s3 buckets as input/output

directories. (Ian Nowland via tomwhite)

HADOOP-5940. trunk eclipse-plugin build fails while trying to copy

commons-cli jar from the lib dir (Giridharan Kesavan via gkesavan)

HADOOP-5864. Fix DMI and OBL findbugs in packages hdfs and metrics.

(hairong)

HADOOP-5935. Fix Hudson's release audit warnings link is broken.

(Giridharan Kesavan via gkesavan)

HADOOP-5947. Delete empty TestCombineFileInputFormat.java

HADOOP-5899. Move a log message in FSEditLog to the right place for

avoiding unnecessary log. (Suresh Srinivas via szetszwo)

HADOOP-5944. Add Apache license header to BlockManager.java. (Suresh

Srinivas via szetszwo)

HADOOP-5891. SecondaryNamenode is able to converse with the NameNode

even when the default value of dfs.http.address is not overridden.

(Todd Lipcon via dhruba)

HADOOP-5953. The isDirectory(..) and isFile(..) methods in KosmosFileSystem

should not be deprecated. (szetszwo)

HADOOP-5954. Fix javac warnings in TestFileCreation, TestSmallBlock,

TestFileStatus, TestDFSShellGenericOptions, TestSeekBug and

TestDFSStartupVersions. (szetszwo)

HADOOP-5956. Fix ivy dependency in hdfsproxy and capacity-scheduler.

(Giridharan Kesavan via szetszwo)

HADOOP-5836. Bug in S3N handling of directory markers using an object with

a trailing "/" causes jobs to fail. (Ian Nowland via tomwhite)

HADOOP-5861. s3n files are not getting split by default. (tomwhite)

HADOOP-5762. Fix a problem that DistCp does not copy empty directory.

(Rodrigo Schmidt via szetszwo)

HADOOP-5859. Fix "wait() or sleep() with locks held" findbugs warnings in

DFSClient. (Kan Zhang via szetszwo)

HADOOP-5457. Fix to continue to run builds even if contrib test fails

(Giridharan Kesavan via gkesavan)

HADOOP-5963. Remove an unnecessary exception catch in NNBench. (Boris

Shkolnik via szetszwo)

HADOOP-5989. Fix streaming test failure. (gkesavan)

HADOOP-5981. Fix a bug in HADOOP-2838 in parsing mapred.child.env.

(Amar Kamat via sharad)

HADOOP-5420. Fix LinuxTaskController to kill tasks using the process

groups they are launched with.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-6031. Remove @author tags from Java source files. (Ravi Phulari

via szetszwo)

HADOOP-5980. Fix LinuxTaskController so tasks get passed

LD\_LIBRARY\_PATH and other environment variables.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-4041. IsolationRunner does not work as documented.

(Philip Zeyliger via tomwhite)

HADOOP-6004. Fixes BlockLocation deserialization. (Jakob Homan via

szetszwo)

HADOOP-6079. Serialize proxySource as DatanodeInfo in DataTransferProtocol.

(szetszwo)

HADOOP-6096. Fix Eclipse project and classpath files following project

split. (tomwhite)

HADOOP-6122. The great than operator in test-patch.sh should be "-gt" but

not ">". (szetszwo)

HADOOP-6114. Fix javadoc documentation for FileStatus.getLen.

(Dmitry Rzhevskiy via dhruba)

HADOOP-6131. A sysproperty should not be set unless the property

is set on the ant command line in build.xml (hong tang via mahadev)

HADOOP-6137. Fix project specific test-patch requirements

(Giridharan Kesavan)

HADOOP-6138. Eliminate the deprecated warnings introduced by H-5438.

(He Yongqiang via szetszwo)

HADOOP-6132. RPC client create an extra connection because of incorrect

key for connection cache. (Kan Zhang via rangadi)

HADOOP-6123. Add missing classpaths in hadoop-config.sh. (Sharad Agarwal

via szetszwo)

HADOOP-6172. Fix jar file names in hadoop-config.sh and include

${build.src} as a part of the source list in build.xml. (Hong Tang via

szetszwo)

HADOOP-6124. Fix javac warning detection in test-patch.sh. (Giridharan

Kesavan via szetszwo)

HADOOP-6177. FSInputChecker.getPos() would return position greater

than the file size. (Hong Tang via hairong)

HADOOP-6188. TestTrash uses java.io.File api but not hadoop FileSystem api.

(Boris Shkolnik via szetszwo)

HADOOP-6192. Fix Shell.getUlimitMemoryCommand to not rely on Map-Reduce

specific configs. (acmurthy)

HADOOP-6103. Clones the classloader as part of Configuration clone.

(Amareshwari Sriramadasu via ddas)

HADOOP-6152. Fix classpath variables in bin/hadoop-config.sh and some

other scripts. (Aaron Kimball via szetszwo)

HADOOP-6215. fix GenericOptionParser to deal with -D with '=' in the

value. (Amar Kamat via sharad)

HADOOP-6227. Fix Configuration to allow final parameters to be set to null

and prevent them from being overridden.

(Amareshwari Sriramadasu via yhemanth)

HADOOP-6199. Move io.map.skip.index property to core-default from mapred.

(Amareshwari Sriramadasu via cdouglas)

HADOOP-6229. Attempt to make a directory under an existing file on

LocalFileSystem should throw an Exception. (Boris Shkolnik via tomwhite)

HADOOP-6243. Fix a NullPointerException in processing deprecated keys.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-6009. S3N listStatus incorrectly returns null instead of empty

array when called on empty root. (Ian Nowland via tomwhite)

HADOOP-6181. Fix .eclipse.templates/.classpath for avro and jets3t jar

files. (Carlos Valiente via szetszwo)

HADOOP-6196. Fix a bug in SequenceFile.Reader where syncing within the

header would cause the reader to read the sync marker as a record. (Jay

Booth via cdouglas)

HADOOP-6250. Modify test-patch to delete copied XML files before running

patch build. (Rahul Kumar Singh via yhemanth)

HADOOP-6257. Two TestFileSystem classes are confusing

hadoop-hdfs-hdfwithmr. (Philip Zeyliger via tomwhite)

HADOOP-6151. Added a input filter to all of the http servlets that quotes

html characters in the parameters, to prevent cross site scripting

attacks. (omalley)

HADOOP-6274. Fix TestLocalFSFileContextMainOperations test failure.

(Gary Murry via suresh).

HADOOP-6281. Avoid null pointer exceptions when the jsps don't have

paramaters (omalley)

HADOOP-6285. Fix the result type of the getParameterMap method in the

HttpServer.QuotingInputFilter. (omalley)

HADOOP-6286. Fix bugs in related to URI handling in glob methods in

FileContext. (Boris Shkolnik via suresh)

HADOOP-6292. Update native libraries guide. (Corinne Chandel via cdouglas)

HADOOP-6327. FileContext tests should not use /tmp and should clean up

files. (Sanjay Radia via szetszwo)

HADOOP-6318. Upgrade to Avro 1.2.0. (cutting)

HADOOP-6334. Fix GenericOptionsParser to understand URI for -files,

-libjars and -archives options and fix Path to support URI with fragment.

(Amareshwari Sriramadasu via szetszwo)

HADOOP-6344. Fix rm and rmr immediately delete files rather than sending

to trash, if a user is over-quota. (Jakob Homan via suresh)

HADOOP-6347. run-test-core-fault-inject runs a test case twice if

-Dtestcase is set (cos)

HADOOP-6375. Sync documentation for FsShell du with its implementation.

(Todd Lipcon via cdouglas)

HADOOP-6441. Protect web ui from cross site scripting attacks (XSS) on

the host http header and using encoded utf-7. (omalley)

HADOOP-6451. Fix build to run contrib unit tests. (Tom White via cdouglas)

HADOOP-6374. JUnit tests should never depend on anything in conf.

(Anatoli Fomenko via cos)

HADOOP-6290. Prevent duplicate slf4j-simple jar via Avro's classpath.

(Owen O'Malley via cdouglas)

HADOOP-6293. Fix FsShell -text to work on filesystems other than the

default. (cdouglas)

HADOOP-6341. Fix test-patch.sh for checkTests function. (gkesavan)

HADOOP-6314. Fix "fs -help" for the "-count" commond. (Ravi Phulari via

szetszwo)

HADOOP-6405. Update Eclipse configuration to match changes to Ivy

configuration (Edwin Chan via cos)

HADOOP-6411. Remove deprecated file src/test/hadoop-site.xml. (cos)

HADOOP-6386. NameNode's HttpServer can't instantiate InetSocketAddress:

IllegalArgumentException is thrown (cos)

HADOOP-6254. Slow reads cause s3n to fail with SocketTimeoutException.

(Andrew Hitchcock via tomwhite)

HADOOP-6428. HttpServer sleeps with negative values. (cos)

HADOOP-6414. Add command line help for -expunge command.

(Ravi Phulari via tomwhite)

HADOOP-6391. Classpath should not be part of command line arguments.

(Cristian Ivascu via tomwhite)

HADOOP-6462. Target "compile" does not exist in contrib/cloud. (tomwhite)

HADOOP-6402. testConf.xsl is not well-formed XML. (Steve Loughran

via tomwhite)

HADOOP-6489. Fix 3 findbugs warnings. (Erik Steffl via suresh)

HADOOP-6517. Fix UserGroupInformation so that tokens are saved/retrieved

to/from the embedded Subject (Owen O'Malley & Kan Zhang via ddas)

HADOOP-6538. Sets hadoop.security.authentication to simple by default.

(ddas)

HADOOP-6540. Contrib unit tests have invalid XML for core-site, etc.

(Aaron Kimball via tomwhite)

HADOOP-6521. User specified umask using deprecated dfs.umask must override

server configured using new dfs.umaskmode for backward compatibility.

(suresh)

HADOOP-6522. Fix decoding of codepoint zero in UTF8. (cutting)

HADOOP-6505. Use tr rather than sed to effect literal substitution in the

build script. (Allen Wittenauer via cdouglas)

HADOOP-6548. Replace mortbay imports with commons logging. (cdouglas)

HADOOP-6560. Handle invalid har:// uri in HarFileSystem. (szetszwo)

HADOOP-6549. TestDoAsEffectiveUser should use ip address of the host

for superuser ip check(jnp via boryas)

HADOOP-6570. RPC#stopProxy throws NPE if getProxyEngine(proxy) returns

null. (hairong)

HADOOP-6558. Return null in HarFileSystem.getFileChecksum(..) since no

checksum algorithm is implemented. (szetszwo)

HADOOP-6572. Makes sure that SASL encryption and push to responder

queue for the RPC response happens atomically. (Kan Zhang via ddas)

HADOOP-6545. Changes the Key for the FileSystem cache to be UGI (ddas)

HADOOP-6609. Fixed deadlock in RPC by replacing shared static

DataOutputBuffer in the UTF8 class with a thread local variable. (omalley)

HADOOP-6504. Invalid example in the documentation of

org.apache.hadoop.util.Tool. (Benoit Sigoure via tomwhite)

HADOOP-6546. BloomMapFile can return false negatives. (Clark Jefcoat

via tomwhite)

HADOOP-6593. TextRecordInputStream doesn't close SequenceFile.Reader.

(Chase Bradford via tomwhite)

HADOOP-6175. Incorrect version compilation with es\_ES.ISO8859-15 locale

on Solaris 10. (Urko Benito via tomwhite)

HADOOP-6645. Bugs on listStatus for HarFileSystem (rodrigo via mahadev)

HADOOP-6645. Re: Bugs on listStatus for HarFileSystem (rodrigo via

mahadev)

HADOOP-6654. Fix code example in WritableComparable javadoc. (Tom White

via szetszwo)

HADOOP-6640. FileSystem.get() does RPC retries within a static

synchronized block. (hairong)

HADOOP-6691. TestFileSystemCaching sometimes hangs. (hairong)

HADOOP-6507. Hadoop Common Docs - delete 3 doc files that do not belong

under Common. (Corinne Chandel via tomwhite)

HADOOP-6439. Fixes handling of deprecated keys to follow order in which

keys are defined. (V.V.Chaitanya Krishna via yhemanth)

HADOOP-6690. FilterFileSystem correctly handles setTimes call.

(Rodrigo Schmidt via dhruba)

HADOOP-6703. Prevent renaming a file, directory or symbolic link to

itself. (Eli Collins via suresh)

HADOOP-6710. Symbolic umask for file creation is not conformant with posix.

(suresh)

HADOOP-6719. Insert all missing methods in FilterFs.

(Rodrigo Schmidt via dhruba)

HADOOP-6724. IPC doesn't properly handle IOEs thrown by socket factory.

(Todd Lipcon via tomwhite)

HADOOP-6722. NetUtils.connect should check that it hasn't connected a socket

to itself. (Todd Lipcon via tomwhite)

HADOOP-6634. Fix AccessControlList to use short names to verify access

control. (Vinod Kumar Vavilapalli via sharad)

HADOOP-6709. Re-instate deprecated FileSystem methods that were removed

after 0.20. (tomwhite)

HADOOP-6630. hadoop-config.sh fails to get executed if hadoop wrapper

scripts are in path. (Allen Wittenauer via tomwhite)

HADOOP-6742. Add methods HADOOP-6709 from to TestFilterFileSystem.

(Eli Collins via tomwhite)

HADOOP-6727. Remove UnresolvedLinkException from public FileContext APIs.

(Eli Collins via tomwhite)

HADOOP-6631. Fix FileUtil.fullyDelete() to continue deleting other files

despite failure at any level. (Contributed by Ravi Gummadi and

Vinod Kumar Vavilapalli)

HADOOP-6723. Unchecked exceptions thrown in IPC Connection should not

orphan clients. (Todd Lipcon via tomwhite)

HADOOP-6404. Rename the generated artifacts to common instead of core.

(tomwhite)

HADOOP-6461. Webapps aren't located correctly post-split.

(Todd Lipcon and Steve Loughran via tomwhite)

HADOOP-6826. Revert FileSystem create method that takes CreateFlags.

(tomwhite)

HADOOP-6800. Harmonize JAR library versions. (tomwhite)

HADOOP-6847. Problem staging 0.21.0 artifacts to Apache Nexus Maven

Repository (Giridharan Kesavan via cos)

HADOOP-6819. [Herriot] Shell command for getting the new exceptions in

the logs returning exitcode 1 after executing successfully. (Vinay Thota

via cos)

HADOOP-6839. [Herriot] Implement a functionality for getting the user list

for creating proxy users. (Vinay Thota via cos)

HADOOP-6836. [Herriot]: Generic method for adding/modifying the attributes

for new configuration. (Vinay Thota via cos)

HADOOP-6860. 'compile-fault-inject' should never be called directly.

(Konstantin Boudnik)

HADOOP-6790. Instrumented (Herriot) build uses too wide mask to include

aspect files. (Konstantin Boudnik)

HADOOP-6875. [Herriot] Cleanup of temp. configurations is needed upon

restart of a cluster (Vinay Thota via cos)

Release 0.20.3 - Unreleased

NEW FEATURES

HADOOP-6637. Benchmark for establishing RPC session. (shv)

BUG FIXES

HADOOP-6760. WebServer shouldn't increase port number in case of negative

port setting caused by Jetty's race (cos)

HADOOP-6881. Make WritableComparator intialize classes when

looking for their raw comparator, as classes often register raw

comparators in initializers, which are no longer automatically run

in Java 6 when a class is referenced. (cutting via omalley)

HADOOP-7072. Remove java5 dependencies from build. (cos)

Release 0.20.204.0 - Unreleased

NEW FEATURES

HADOOP-6255. Create RPM and Debian packages for common. Changes deployment

layout to be consistent across the binary tgz, rpm, and deb. Adds setup

scripts for easy one node cluster configuration and user creation.

(Eric Yang via omalley)

Release 0.20.203.0 - 2011-5-11

BUG FIXES

HADOOP-7258. The Gzip codec should not return null decompressors. (omalley)

Release 0.20.2 - 2010-2-16

NEW FEATURES

HADOOP-6218. Adds a feature where TFile can be split by Record

Sequence number. (Hong Tang and Raghu Angadi via ddas)

BUG FIXES

HADOOP-6231. Allow caching of filesystem instances to be disabled on a

per-instance basis. (tomwhite)

HADOOP-5759. Fix for IllegalArgumentException when CombineFileInputFormat

is used as job InputFormat. (Amareshwari Sriramadasu via dhruba)

HADOOP-6097. Fix Path conversion in makeQualified and reset LineReader byte

count at the start of each block in Hadoop archives. (Ben Slusky, Tom

White, and Mahadev Konar via cdouglas)

HADOOP-6269. Fix threading issue with defaultResource in Configuration.

(Sreekanth Ramakrishnan via cdouglas)

HADOOP-6460. Reinitializes buffers used for serializing responses in ipc

server on exceeding maximum response size to free up Java heap. (suresh)

HADOOP-6315. Avoid incorrect use of BuiltInflater/BuiltInDeflater in

GzipCodec. (Aaron Kimball via cdouglas)

HADOOP-6498. IPC client bug may cause rpc call hang. (Ruyue Ma and

hairong via hairong)

IMPROVEMENTS

HADOOP-5611. Fix C++ libraries to build on Debian Lenny. (Todd Lipcon

via tomwhite)

HADOOP-5612. Some c++ scripts are not chmodded before ant execution.

(Todd Lipcon via tomwhite)

HADOOP-1849. Add undocumented configuration parameter for per handler

call queue size in IPC Server. (shv)

Release 0.20.1 - 2009-09-01

INCOMPATIBLE CHANGES

HADOOP-5726. Remove pre-emption from capacity scheduler code base.

(Rahul Kumar Singh via yhemanth)

HADOOP-5881. Simplify memory monitoring and scheduling related

configuration. (Vinod Kumar Vavilapalli via yhemanth)

NEW FEATURES

HADOOP-6080. Introduce -skipTrash option to rm and rmr.

(Jakob Homan via shv)

HADOOP-3315. Add a new, binary file foramt, TFile. (Hong Tang via cdouglas)

IMPROVEMENTS

HADOOP-5711. Change Namenode file close log to info. (szetszwo)

HADOOP-5736. Update the capacity scheduler documentation for features

like memory based scheduling, job initialization and removal of pre-emption.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-5714. Add a metric for NameNode getFileInfo operation. (Jakob Homan

via szetszwo)

HADOOP-4372. Improves the way history filenames are obtained and manipulated.

(Amar Kamat via ddas)

HADOOP-5897. Add name-node metrics to capture java heap usage.

(Suresh Srinivas via shv)

OPTIMIZATIONS

BUG FIXES

HADOOP-5691. Makes org.apache.hadoop.mapreduce.Reducer concrete class

instead of abstract. (Amareshwari Sriramadasu via sharad)

HADOOP-5646. Fixes a problem in TestQueueCapacities.

(Vinod Kumar Vavilapalli via ddas)

HADOOP-5655. TestMRServerPorts fails on java.net.BindException. (Devaraj

Das via hairong)

HADOOP-5654. TestReplicationPolicy.<init> fails on java.net.BindException.

(hairong)

HADOOP-5688. Fix HftpFileSystem checksum path construction. (Tsz Wo

(Nicholas) Sze via cdouglas)

HADOOP-4674. Fix fs help messages for -test, -text, -tail, -stat

and -touchz options. (Ravi Phulari via szetszwo)

HADOOP-5718. Remove the check for the default queue in capacity scheduler.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-5719. Remove jobs that failed initialization from the waiting queue

in the capacity scheduler. (Sreekanth Ramakrishnan via yhemanth)

HADOOP-4744. Attaching another fix to the jetty port issue. The TaskTracker

kills itself if it ever discovers that the port to which jetty is actually

bound is invalid (-1). (ddas)

HADOOP-5349. Fixes a problem in LocalDirAllocator to check for the return

path value that is returned for the case where the file we want to write

is of an unknown size. (Vinod Kumar Vavilapalli via ddas)

HADOOP-5636. Prevents a job from going to RUNNING state after it has been

KILLED (this used to happen when the SetupTask would come back with a

success after the job has been killed). (Amar Kamat via ddas)

HADOOP-5641. Fix a NullPointerException in capacity scheduler's memory

based scheduling code when jobs get retired. (yhemanth)

HADOOP-5828. Use absolute path for mapred.local.dir of JobTracker in

MiniMRCluster. (yhemanth)

HADOOP-4981. Fix capacity scheduler to schedule speculative tasks

correctly in the presence of High RAM jobs.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-5210. Solves a problem in the progress report of the reduce task.

(Ravi Gummadi via ddas)

HADOOP-5850. Fixes a problem to do with not being able to jobs with

0 maps/reduces. (Vinod K V via ddas)

HADOOP-4626. Correct the API links in hdfs forrest doc so that they

point to the same version of hadoop. (szetszwo)

HADOOP-5883. Fixed tasktracker memory monitoring to account for

momentary spurts in memory usage due to java's fork() model.

(yhemanth)

HADOOP-5539. Fixes a problem to do with not preserving intermediate

output compression for merged data.

(Jothi Padmanabhan and Billy Pearson via ddas)

HADOOP-5932. Fixes a problem in capacity scheduler in computing

available memory on a tasktracker.

(Vinod Kumar Vavilapalli via yhemanth)

HADOOP-5908. Fixes a problem to do with ArithmeticException in the

JobTracker when there are jobs with 0 maps. (Amar Kamat via ddas)

HADOOP-5924. Fixes a corner case problem to do with job recovery with

empty history files. Also, after a JT restart, sends KillTaskAction to

tasks that report back but the corresponding job hasn't been initialized

yet. (Amar Kamat via ddas)

HADOOP-5882. Fixes a reducer progress update problem for new mapreduce

api. (Amareshwari Sriramadasu via sharad)

HADOOP-5746. Fixes a corner case problem in Streaming, where if an exception

happens in MROutputThread after the last call to the map/reduce method, the

exception goes undetected. (Amar Kamat via ddas)

HADOOP-5884. Fixes accounting in capacity scheduler so that high RAM jobs

take more slots. (Vinod Kumar Vavilapalli via yhemanth)

HADOOP-5937. Correct a safemode message in FSNamesystem. (Ravi Phulari

via szetszwo)

HADOOP-5869. Fix bug in assignment of setup / cleanup task that was

causing TestQueueCapacities to fail.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-5921. Fixes a problem in the JobTracker where it sometimes never used

to come up due to a system file creation on JobTracker's system-dir failing.

This problem would sometimes show up only when the FS for the system-dir

(usually HDFS) is started at nearly the same time as the JobTracker.

(Amar Kamat via ddas)

HADOOP-5920. Fixes a testcase failure for TestJobHistory.

(Amar Kamat via ddas)

HADOOP-6139. Fix the FsShell help messages for rm and rmr. (Jakob Homan

via szetszwo)

HADOOP-6145. Fix FsShell rm/rmr error messages when there is a FNFE.

(Jakob Homan via szetszwo)

HADOOP-6150. Users should be able to instantiate comparator using TFile

API. (Hong Tang via rangadi)

Release 0.20.0 - 2009-04-15

INCOMPATIBLE CHANGES

HADOOP-4210. Fix findbugs warnings for equals implementations of mapred ID

classes. Removed public, static ID::read and ID::forName; made ID an

abstract class. (Suresh Srinivas via cdouglas)

HADOOP-4253. Fix various warnings generated by findbugs.

Following deprecated methods in RawLocalFileSystem are removed:

public String getName()

public void lock(Path p, boolean shared)

public void release(Path p)

(Suresh Srinivas via johan)

HADOOP-4618. Move http server from FSNamesystem into NameNode.

FSNamesystem.getNameNodeInfoPort() is removed.

FSNamesystem.getDFSNameNodeMachine() and FSNamesystem.getDFSNameNodePort()

replaced by FSNamesystem.getDFSNameNodeAddress().

NameNode(bindAddress, conf) is removed.

(shv)

HADOOP-4567. GetFileBlockLocations returns the NetworkTopology

information of the machines where the blocks reside. (dhruba)

HADOOP-4435. The JobTracker WebUI displays the amount of heap memory

in use. (dhruba)

HADOOP-4628. Move Hive into a standalone subproject. (omalley)

HADOOP-4188. Removes task's dependency on concrete filesystems.

(Sharad Agarwal via ddas)

HADOOP-1650. Upgrade to Jetty 6. (cdouglas)

HADOOP-3986. Remove static Configuration from JobClient. (Amareshwari

Sriramadasu via cdouglas)

JobClient::setCommandLineConfig is removed

JobClient::getCommandLineConfig is removed

JobShell, TestJobShell classes are removed

HADOOP-4422. S3 file systems should not create bucket.

(David Phillips via tomwhite)

HADOOP-4035. Support memory based scheduling in capacity scheduler.

(Vinod Kumar Vavilapalli via yhemanth)

HADOOP-3497. Fix bug in overly restrictive file globbing with a

PathFilter. (tomwhite)

HADOOP-4445. Replace running task counts with running task

percentage in capacity scheduler UI. (Sreekanth Ramakrishnan via

yhemanth)

HADOOP-4631. Splits the configuration into three parts - one for core,

one for mapred and the last one for HDFS. (Sharad Agarwal via cdouglas)

HADOOP-3344. Fix libhdfs build to use autoconf and build the same

architecture (32 vs 64 bit) of the JVM running Ant. The libraries for

pipes, utils, and libhdfs are now all in c++/<os\_osarch\_jvmdatamodel>/lib.

(Giridharan Kesavan via nigel)

HADOOP-4874. Remove LZO codec because of licensing issues. (omalley)

HADOOP-4970. The full path name of a file is preserved inside Trash.

(Prasad Chakka via dhruba)

HADOOP-4103. NameNode keeps a count of missing blocks. It warns on

WebUI if there are such blocks. '-report' and '-metaSave' have extra

info to track such blocks. (Raghu Angadi)

HADOOP-4783. Change permissions on history files on the jobtracker

to be only group readable instead of world readable.

(Amareshwari Sriramadasu via yhemanth)

NEW FEATURES

HADOOP-4575. Add a proxy service for relaying HsftpFileSystem requests.

Includes client authentication via user certificates and config-based

access control. (Kan Zhang via cdouglas)

HADOOP-4661. Add DistCh, a new tool for distributed ch{mod,own,grp}.

(szetszwo)

HADOOP-4709. Add several new features and bug fixes to Chukwa.

Added Hadoop Infrastructure Care Center (UI for visualize data collected

by Chukwa)

Added FileAdaptor for streaming small file in one chunk

Added compression to archive and demux output

Added unit tests and validation for agent, collector, and demux map

reduce job

Added database loader for loading demux output (sequence file) to jdbc

connected database

Added algorithm to distribute collector load more evenly

(Jerome Boulon, Eric Yang, Andy Konwinski, Ariel Rabkin via cdouglas)

HADOOP-4179. Add Vaidya tool to analyze map/reduce job logs for performanc

problems. (Suhas Gogate via omalley)

HADOOP-4029. Add NameNode storage information to the dfshealth page and

move DataNode information to a separated page. (Boris Shkolnik via

szetszwo)

HADOOP-4348. Add service-level authorization for Hadoop. (acmurthy)

HADOOP-4826. Introduce admin command saveNamespace. (shv)

HADOOP-3063 BloomMapFile - fail-fast version of MapFile for sparsely

populated key space (Andrzej Bialecki via stack)

HADOOP-1230. Add new map/reduce API and deprecate the old one. Generally,

the old code should work without problem. The new api is in

org.apache.hadoop.mapreduce and the old classes in org.apache.hadoop.mapred

are deprecated. Differences in the new API:

1. All of the methods take Context objects that allow us to add new

methods without breaking compatability.

2. Mapper and Reducer now have a "run" method that is called once and

contains the control loop for the task, which lets applications

replace it.

3. Mapper and Reducer by default are Identity Mapper and Reducer.

4. The FileOutputFormats use part-r-00000 for the output of reduce 0 and

part-m-00000 for the output of map 0.

5. The reduce grouping comparator now uses the raw compare instead of

object compare.

6. The number of maps in FileInputFormat is controlled by min and max

split size rather than min size and the desired number of maps.

(omalley)

HADOOP-3305. Use Ivy to manage dependencies. (Giridharan Kesavan

and Steve Loughran via cutting)

IMPROVEMENTS

HADOOP-4749. Added a new counter REDUCE\_INPUT\_BYTES. (Yongqiang He via

zshao)

HADOOP-4234. Fix KFS "glue" layer to allow applications to interface

with multiple KFS metaservers. (Sriram Rao via lohit)

HADOOP-4245. Update to latest version of KFS "glue" library jar.

(Sriram Rao via lohit)

HADOOP-4244. Change test-patch.sh to check Eclipse classpath no matter

it is run by Hudson or not. (szetszwo)

HADOOP-3180. Add name of missing class to WritableName.getClass

IOException. (Pete Wyckoff via omalley)

HADOOP-4178. Make the capacity scheduler's default values configurable.

(Sreekanth Ramakrishnan via omalley)

HADOOP-4262. Generate better error message when client exception has null

message. (stevel via omalley)

HADOOP-4226. Refactor and document LineReader to make it more readily

understandable. (Yuri Pradkin via cdouglas)

HADOOP-4238. When listing jobs, if scheduling information isn't available

print NA instead of empty output. (Sreekanth Ramakrishnan via johan)

HADOOP-4284. Support filters that apply to all requests, or global filters,

to HttpServer. (Kan Zhang via cdouglas)

HADOOP-4276. Improve the hashing functions and deserialization of the

mapred ID classes. (omalley)

HADOOP-4485. Add a compile-native ant task, as a shorthand. (enis)

HADOOP-4454. Allow # comments in slaves file. (Rama Ramasamy via omalley)

HADOOP-3461. Remove hdfs.StringBytesWritable. (szetszwo)

HADOOP-4437. Use Halton sequence instead of java.util.Random in

PiEstimator. (szetszwo)

HADOOP-4572. Change INode and its sub-classes to package private.

(szetszwo)

HADOOP-4187. Does a runtime lookup for JobConf/JobConfigurable, and if

found, invokes the appropriate configure method. (Sharad Agarwal via ddas)

HADOOP-4453. Improve ssl configuration and handling in HsftpFileSystem,

particularly when used with DistCp. (Kan Zhang via cdouglas)

HADOOP-4583. Several code optimizations in HDFS. (Suresh Srinivas via

szetszwo)

HADOOP-3923. Remove org.apache.hadoop.mapred.StatusHttpServer. (szetszwo)

HADOOP-4622. Explicitly specify interpretor for non-native

pipes binaries. (Fredrik Hedberg via johan)

HADOOP-4505. Add a unit test to test faulty setup task and cleanup

task killing the job. (Amareshwari Sriramadasu via johan)

HADOOP-4608. Don't print a stack trace when the example driver gets an

unknown program to run. (Edward Yoon via omalley)

HADOOP-4645. Package HdfsProxy contrib project without the extra level

of directories. (Kan Zhang via omalley)

HADOOP-4126. Allow access to HDFS web UI on EC2 (tomwhite via omalley)

HADOOP-4612. Removes RunJar's dependency on JobClient.

(Sharad Agarwal via ddas)

HADOOP-4185. Adds setVerifyChecksum() method to FileSystem.

(Sharad Agarwal via ddas)

HADOOP-4523. Prevent too many tasks scheduled on a node from bringing

it down by monitoring for cumulative memory usage across tasks.

(Vinod Kumar Vavilapalli via yhemanth)

HADOOP-4640. Adds an input format that can split lzo compressed

text files. (johan)

HADOOP-4666. Launch reduces only after a few maps have run in the

Fair Scheduler. (Matei Zaharia via johan)

HADOOP-4339. Remove redundant calls from FileSystem/FsShell when

generating/processing ContentSummary. (David Phillips via cdouglas)

HADOOP-2774. Add counters tracking records spilled to disk in MapTask and

ReduceTask. (Ravi Gummadi via cdouglas)

HADOOP-4513. Initialize jobs asynchronously in the capacity scheduler.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-4649. Improve abstraction for spill indices. (cdouglas)

HADOOP-3770. Add gridmix2, an iteration on the gridmix benchmark. (Runping

Qi via cdouglas)

HADOOP-4708. Add support for dfsadmin commands in TestCLI. (Boris Shkolnik

via cdouglas)

HADOOP-4758. Add a splitter for metrics contexts to support more than one

type of collector. (cdouglas)

HADOOP-4722. Add tests for dfsadmin quota error messages. (Boris Shkolnik

via cdouglas)

HADOOP-4690. fuse-dfs - create source file/function + utils + config +

main source files. (pete wyckoff via mahadev)

HADOOP-3750. Fix and enforce module dependencies. (Sharad Agarwal via

tomwhite)

HADOOP-4747. Speed up FsShell::ls by removing redundant calls to the

filesystem. (David Phillips via cdouglas)

HADOOP-4305. Improves the blacklisting strategy, whereby, tasktrackers

that are blacklisted are not given tasks to run from other jobs, subject

to the following conditions (all must be met):

1) The TaskTracker has been blacklisted by at least 4 jobs (configurable)

2) The TaskTracker has been blacklisted 50% more number of times than

the average (configurable)

3) The cluster has less than 50% trackers blacklisted

Once in 24 hours, a TaskTracker blacklisted for all jobs is given a chance.

Restarting the TaskTracker moves it out of the blacklist.

(Amareshwari Sriramadasu via ddas)

HADOOP-4688. Modify the MiniMRDFSSort unit test to spill multiple times,

exercising the map-side merge code. (cdouglas)

HADOOP-4737. Adds the KILLED notification when jobs get killed.

(Amareshwari Sriramadasu via ddas)

HADOOP-4728. Add a test exercising different namenode configurations.

(Boris Shkolnik via cdouglas)

HADOOP-4807. Adds JobClient commands to get the active/blacklisted tracker

names. Also adds commands to display running/completed task attempt IDs.

(ddas)

HADOOP-4699. Remove checksum validation from map output servlet. (cdouglas)

HADOOP-4838. Added a registry to automate metrics and mbeans management.

(Sanjay Radia via acmurthy)

HADOOP-3136. Fixed the default scheduler to assign multiple tasks to each

tasktracker per heartbeat, when feasible. To ensure locality isn't hurt

too badly, the scheudler will not assign more than one off-switch task per

heartbeat. The heartbeat interval is also halved since the task-tracker is

fixed to no longer send out heartbeats on each task completion. A

slow-start for scheduling reduces is introduced to ensure that reduces

aren't started till sufficient number of maps are done, else reduces of

jobs whose maps aren't scheduled might swamp the cluster.

Configuration changes to mapred-default.xml:

add mapred.reduce.slowstart.completed.maps

(acmurthy)

HADOOP-4545. Add example and test case of secondary sort for the reduce.

(omalley)

HADOOP-4753. Refactor gridmix2 to reduce code duplication. (cdouglas)

HADOOP-4909. Fix Javadoc and make some of the API more consistent in their

use of the JobContext instead of Configuration. (omalley)

HADOOP-4920. Stop storing Forrest output in Subversion. (cutting)

HADOOP-4948. Add parameters java5.home and forrest.home to the ant commands

in test-patch.sh. (Giridharan Kesavan via szetszwo)

HADOOP-4830. Add end-to-end test cases for testing queue capacities.

(Vinod Kumar Vavilapalli via yhemanth)

HADOOP-4980. Improve code layout of capacity scheduler to make it

easier to fix some blocker bugs. (Vivek Ratan via yhemanth)

HADOOP-4916. Make user/location of Chukwa installation configurable by an

external properties file. (Eric Yang via cdouglas)

HADOOP-4950. Make the CompressorStream, DecompressorStream,

BlockCompressorStream, and BlockDecompressorStream public to facilitate

non-Hadoop codecs. (omalley)

HADOOP-4843. Collect job history and configuration in Chukwa. (Eric Yang

via cdouglas)

HADOOP-5030. Build Chukwa RPM to install into configured directory. (Eric

Yang via cdouglas)

HADOOP-4828. Updates documents to do with configuration (HADOOP-4631).

(Sharad Agarwal via ddas)

HADOOP-4939. Adds a test that would inject random failures for tasks in

large jobs and would also inject TaskTracker failures. (ddas)

HADOOP-4944. A configuration file can include other configuration

files. (Rama Ramasamy via dhruba)

HADOOP-4804. Provide Forrest documentation for the Fair Scheduler.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-5248. A testcase that checks for the existence of job directory

after the job completes. Fails if it exists. (ddas)

HADOOP-4664. Introduces multiple job initialization threads, where the

number of threads are configurable via mapred.jobinit.threads.

(Matei Zaharia and Jothi Padmanabhan via ddas)

HADOOP-4191. Adds a testcase for JobHistory. (Ravi Gummadi via ddas)

HADOOP-5466. Change documenation CSS style for headers and code. (Corinne

Chandel via szetszwo)

HADOOP-5275. Add ivy directory and files to built tar.

(Giridharan Kesavan via nigel)

HADOOP-5468. Add sub-menus to forrest documentation and make some minor

edits. (Corinne Chandel via szetszwo)

HADOOP-5437. Fix TestMiniMRDFSSort to properly test jvm-reuse. (omalley)

HADOOP-5521. Removes dependency of TestJobInProgress on RESTART\_COUNT

JobHistory tag. (Ravi Gummadi via ddas)

OPTIMIZATIONS

HADOOP-3293. Fixes FileInputFormat to do provide locations for splits

based on the rack/host that has the most number of bytes.

(Jothi Padmanabhan via ddas)

HADOOP-4683. Fixes Reduce shuffle scheduler to invoke

getMapCompletionEvents in a separate thread. (Jothi Padmanabhan

via ddas)

BUG FIXES

HADOOP-4204. Fix findbugs warnings related to unused variables, naive

Number subclass instantiation, Map iteration, and badly scoped inner

classes. (Suresh Srinivas via cdouglas)

HADOOP-4207. Update derby jar file to release 10.4.2 release.

(Prasad Chakka via dhruba)

HADOOP-4325. SocketInputStream.read() should return -1 in case EOF.

(Raghu Angadi)

HADOOP-4408. FsAction functions need not create new objects. (cdouglas)

HADOOP-4440. TestJobInProgressListener tests for jobs killed in queued

state (Amar Kamat via ddas)

HADOOP-4346. Implement blocking connect so that Hadoop is not affected

by selector problem with JDK default implementation. (Raghu Angadi)

HADOOP-4388. If there are invalid blocks in the transfer list, Datanode

should handle them and keep transferring the remaining blocks. (Suresh

Srinivas via szetszwo)

HADOOP-4587. Fix a typo in Mapper javadoc. (Koji Noguchi via szetszwo)

HADOOP-4530. In fsck, HttpServletResponse sendError fails with

IllegalStateException. (hairong)

HADOOP-4377. Fix a race condition in directory creation in

NativeS3FileSystem. (David Phillips via cdouglas)

HADOOP-4621. Fix javadoc warnings caused by duplicate jars. (Kan Zhang via

cdouglas)

HADOOP-4566. Deploy new hive code to support more types.

(Zheng Shao via dhruba)

HADOOP-4571. Add chukwa conf files to svn:ignore list. (Eric Yang via

szetszwo)

HADOOP-4589. Correct PiEstimator output messages and improve the code

readability. (szetszwo)

HADOOP-4650. Correct a mismatch between the default value of

local.cache.size in the config and the source. (Jeff Hammerbacher via

cdouglas)

HADOOP-4606. Fix cygpath error if the log directory does not exist.

(szetszwo via omalley)

HADOOP-4141. Fix bug in ScriptBasedMapping causing potential infinite

loop on misconfigured hadoop-site. (Aaron Kimball via tomwhite)

HADOOP-4691. Correct a link in the javadoc of IndexedSortable. (szetszwo)

HADOOP-4598. '-setrep' command skips under-replicated blocks. (hairong)

HADOOP-4429. Set defaults for user, group in UnixUserGroupInformation so

login fails more predictably when misconfigured. (Alex Loddengaard via

cdouglas)

HADOOP-4676. Fix broken URL in blacklisted tasktrackers page. (Amareshwari

Sriramadasu via cdouglas)

HADOOP-3422 Ganglia counter metrics are all reported with the metric

name "value", so the counter values can not be seen. (Jason Attributor

and Brian Bockelman via stack)

HADOOP-4704. Fix javadoc typos "the the". (szetszwo)

HADOOP-4677. Fix semantics of FileSystem::getBlockLocations to return

meaningful values. (Hong Tang via cdouglas)

HADOOP-4669. Use correct operator when evaluating whether access time is

enabled (Dhruba Borthakur via cdouglas)

HADOOP-4732. Pass connection and read timeouts in the correct order when

setting up fetch in reduce. (Amareshwari Sriramadasu via cdouglas)

HADOOP-4558. Fix capacity reclamation in capacity scheduler.

(Amar Kamat via yhemanth)

HADOOP-4770. Fix rungridmix\_2 script to work with RunJar. (cdouglas)

HADOOP-4738. When using git, the saveVersion script will use only the

commit hash for the version and not the message, which requires escaping.

(cdouglas)

HADOOP-4576. Show pending job count instead of task count in the UI per

queue in capacity scheduler. (Sreekanth Ramakrishnan via yhemanth)

HADOOP-4623. Maintain running tasks even if speculative execution is off.

(Amar Kamat via yhemanth)

HADOOP-4786. Fix broken compilation error in

TestTrackerBlacklistAcrossJobs. (yhemanth)

HADOOP-4785. Fixes theJobTracker heartbeat to not make two calls to

System.currentTimeMillis(). (Amareshwari Sriramadasu via ddas)

HADOOP-4792. Add generated Chukwa configuration files to version control

ignore lists. (cdouglas)

HADOOP-4796. Fix Chukwa test configuration, remove unused components. (Eric

Yang via cdouglas)

HADOOP-4708. Add binaries missed in the initial checkin for Chukwa. (Eric

Yang via cdouglas)

HADOOP-4805. Remove black list collector from Chukwa Agent HTTP Sender.

(Eric Yang via cdouglas)

HADOOP-4837. Move HADOOP\_CONF\_DIR configuration to chukwa-env.sh (Jerome

Boulon via cdouglas)

HADOOP-4825. Use ps instead of jps for querying process status in Chukwa.

(Eric Yang via cdouglas)

HADOOP-4844. Fixed javadoc for

org.apache.hadoop.fs.permission.AccessControlException to document that

it's deprecated in favour of

org.apache.hadoop.security.AccessControlException. (acmurthy)

HADOOP-4706. Close the underlying output stream in

IFileOutputStream::close. (Jothi Padmanabhan via cdouglas)

HADOOP-4855. Fixed command-specific help messages for refreshServiceAcl in

DFSAdmin and MRAdmin. (acmurthy)

HADOOP-4820. Remove unused method FSNamesystem::deleteInSafeMode. (Suresh

Srinivas via cdouglas)

HADOOP-4698. Lower io.sort.mb to 10 in the tests and raise the junit memory

limit to 512m from 256m. (Nigel Daley via cdouglas)

HADOOP-4860. Split TestFileTailingAdapters into three separate tests to

avoid contention. (Eric Yang via cdouglas)

HADOOP-3921. Fixed clover (code coverage) target to work with JDK 6.

(tomwhite via nigel)

HADOOP-4845. Modify the reduce input byte counter to record only the

compressed size and add a human-readable label. (Yongqiang He via cdouglas)

HADOOP-4458. Add a test creating symlinks in the working directory.

(Amareshwari Sriramadasu via cdouglas)

HADOOP-4879. Fix org.apache.hadoop.mapred.Counters to correctly define

Object.equals rather than depend on contentEquals api. (omalley via

acmurthy)

HADOOP-4791. Fix rpm build process for Chukwa. (Eric Yang via cdouglas)

HADOOP-4771. Correct initialization of the file count for directories

with quotas. (Ruyue Ma via shv)

HADOOP-4878. Fix eclipse plugin classpath file to point to ivy's resolved

lib directory and added the same to test-patch.sh. (Giridharan Kesavan via

acmurthy)

HADOOP-4774. Fix default values of some capacity scheduler configuration

items which would otherwise not work on a fresh checkout.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-4876. Fix capacity scheduler reclamation by updating count of

pending tasks correctly. (Sreekanth Ramakrishnan via yhemanth)

HADOOP-4849. Documentation for Service Level Authorization implemented in

HADOOP-4348. (acmurthy)

HADOOP-4827. Replace Consolidator with Aggregator macros in Chukwa (Eric

Yang via cdouglas)

HADOOP-4894. Correctly parse ps output in Chukwa jettyCollector.sh. (Ari

Rabkin via cdouglas)

HADOOP-4892. Close fds out of Chukwa ExecPlugin. (Ari Rabkin via cdouglas)

HADOOP-4889. Fix permissions in RPM packaging. (Eric Yang via cdouglas)

HADOOP-4869. Fixes the TT-JT heartbeat to have an explicit flag for

restart apart from the initialContact flag that there was earlier.

(Amareshwari Sriramadasu via ddas)

HADOOP-4716. Fixes ReduceTask.java to clear out the mapping between

hosts and MapOutputLocation upon a JT restart (Amar Kamat via ddas)

HADOOP-4880. Removes an unnecessary testcase from TestJobTrackerRestart.

(Amar Kamat via ddas)

HADOOP-4924. Fixes a race condition in TaskTracker re-init. (ddas)

HADOOP-4854. Read reclaim capacity interval from capacity scheduler

configuration. (Sreekanth Ramakrishnan via yhemanth)

HADOOP-4896. HDFS Fsck does not load HDFS configuration. (Raghu Angadi)

HADOOP-4956. Creates TaskStatus for failed tasks with an empty Counters

object instead of null. (ddas)

HADOOP-4979. Fix capacity scheduler to block cluster for failed high

RAM requirements across task types. (Vivek Ratan via yhemanth)

HADOOP-4949. Fix native compilation. (Chris Douglas via acmurthy)

HADOOP-4787. Fixes the testcase TestTrackerBlacklistAcrossJobs which was

earlier failing randomly. (Amareshwari Sriramadasu via ddas)

HADOOP-4914. Add description fields to Chukwa init.d scripts (Eric Yang via

cdouglas)

HADOOP-4884. Make tool tip date format match standard HICC format. (Eric

Yang via cdouglas)

HADOOP-4925. Make Chukwa sender properties configurable. (Ari Rabkin via

cdouglas)

HADOOP-4947. Make Chukwa command parsing more forgiving of whitespace. (Ari

Rabkin via cdouglas)

HADOOP-5026. Make chukwa/bin scripts executable in repository. (Andy

Konwinski via cdouglas)

HADOOP-4977. Fix a deadlock between the reclaimCapacity and assignTasks

in capacity scheduler. (Vivek Ratan via yhemanth)

HADOOP-4988. Fix reclaim capacity to work even when there are queues with

no capacity. (Vivek Ratan via yhemanth)

HADOOP-5065. Remove generic parameters from argument to

setIn/OutputFormatClass so that it works with SequenceIn/OutputFormat.

(cdouglas via omalley)

HADOOP-4818. Pass user config to instrumentation API. (Eric Yang via

cdouglas)

HADOOP-4993. Fix Chukwa agent configuration and startup to make it both

more modular and testable. (Ari Rabkin via cdouglas)

HADOOP-5048. Fix capacity scheduler to correctly cleanup jobs that are

killed after initialization, but before running.

(Sreekanth Ramakrishnan via yhemanth)

HADOOP-4671. Mark loop control variables shared between threads as

volatile. (cdouglas)

HADOOP-5079. HashFunction inadvertently destroys some randomness

(Jonathan Ellis via stack)

HADOOP-4999. A failure to write to FsEditsLog results in

IndexOutOfBounds exception. (Boris Shkolnik via rangadi)

HADOOP-5139. Catch IllegalArgumentException during metrics registration

in RPC. (Hairong Kuang via szetszwo)

HADOOP-5085. Copying a file to local with Crc throws an exception.

(hairong)

HADOOP-5211. Fix check for job completion in TestSetupAndCleanupFailure.

(enis)

HADOOP-5254. The Configuration class should be able to work with XML

parsers that do not support xmlinclude. (Steve Loughran via dhruba)

HADOOP-4692. Namenode in infinite loop for replicating/deleting corrupt

blocks. (hairong)

HADOOP-5255. Fix use of Math.abs to avoid overflow. (Jonathan Ellis via

cdouglas)

HADOOP-5269. Fixes a problem to do with tasktracker holding on to

FAILED\_UNCLEAN or KILLED\_UNCLEAN tasks forever. (Amareshwari Sriramadasu

via ddas)

HADOOP-5214. Fixes a ConcurrentModificationException while the Fairshare

Scheduler accesses the tasktrackers stored by the JobTracker.

(Rahul Kumar Singh via yhemanth)

HADOOP-5233. Addresses the three issues - Race condition in updating

status, NPE in TaskTracker task localization when the conf file is missing

(HADOOP-5234) and NPE in handling KillTaskAction of a cleanup task

(HADOOP-5235). (Amareshwari Sriramadasu via ddas)

HADOOP-5247. Introduces a broadcast of KillJobAction to all trackers when

a job finishes. This fixes a bunch of problems to do with NPE when a

completed job is not in memory and a tasktracker comes to the jobtracker

with a status report of a task belonging to that job. (Amar Kamat via ddas)

HADOOP-5282. Fixed job history logs for task attempts that are

failed by the JobTracker, say due to lost task trackers. (Amar

Kamat via yhemanth)

HADOOP-5241. Fixes a bug in disk-space resource estimation. Makes

the estimation formula linear where blowUp =

Total-Output/Total-Input. (Sharad Agarwal via ddas)

HADOOP-5142. Fix MapWritable#putAll to store key/value classes.

(Do??acan G??ney via enis)

HADOOP-4744. Workaround for jetty6 returning -1 when getLocalPort

is invoked on the connector. The workaround patch retries a few

times before failing. (Jothi Padmanabhan via yhemanth)

HADOOP-5280. Adds a check to prevent a task state transition from

FAILED to any of UNASSIGNED, RUNNING, COMMIT\_PENDING or

SUCCEEDED. (ddas)

HADOOP-5272. Fixes a problem to do with detecting whether an

attempt is the first attempt of a Task. This affects JobTracker

restart. (Amar Kamat via ddas)

HADOOP-5306. Fixes a problem to do with logging/parsing the http port of a

lost tracker. Affects JobTracker restart. (Amar Kamat via ddas)

HADOOP-5111. Fix Job::set\* methods to work with generics. (cdouglas)

HADOOP-5274. Fix gridmix2 dependency on wordcount example. (cdouglas)

HADOOP-5145. Balancer sometimes runs out of memory after running

days or weeks. (hairong)

HADOOP-5338. Fix jobtracker restart to clear task completion

events cached by tasktrackers forcing them to fetch all events

afresh, thus avoiding missed task completion events on the

tasktrackers. (Amar Kamat via yhemanth)

HADOOP-4695. Change TestGlobalFilter so that it allows a web page to be

filtered more than once for a single access. (Kan Zhang via szetszwo)

HADOOP-5298. Change TestServletFilter so that it allows a web page to be

filtered more than once for a single access. (szetszwo)

HADOOP-5432. Disable ssl during unit tests in hdfsproxy, as it is unused

and causes failures. (cdouglas)

HADOOP-5416. Correct the shell command "fs -test" forrest doc description.

(Ravi Phulari via szetszwo)

HADOOP-5327. Fixed job tracker to remove files from system directory on

ACL check failures and also check ACLs on restart.

(Amar Kamat via yhemanth)

HADOOP-5395. Change the exception message when a job is submitted to an

invalid queue. (Rahul Kumar Singh via yhemanth)

HADOOP-5276. Fixes a problem to do with updating the start time of

a task when the tracker that ran the task is lost. (Amar Kamat via

ddas)

HADOOP-5278. Fixes a problem to do with logging the finish time of

a task during recovery (after a JobTracker restart). (Amar Kamat

via ddas)

HADOOP-5490. Fixes a synchronization problem in the

EagerTaskInitializationListener class. (Jothi Padmanabhan via

ddas)

HADOOP-5493. The shuffle copier threads return the codecs back to

the pool when the shuffle completes. (Jothi Padmanabhan via ddas)

HADOOP-5414. Fixes IO exception while executing hadoop fs -touchz

fileName by making sure that lease renewal thread exits before dfs

client exits. (hairong)

HADOOP-5103. FileInputFormat now reuses the clusterMap network

topology object and that brings down the log messages in the

JobClient to do with NetworkTopology.add significantly. (Jothi

Padmanabhan via ddas)

HADOOP-5483. Fixes a problem in the Directory Cleanup Thread due to which

TestMiniMRWithDFS sometimes used to fail. (ddas)

HADOOP-5281. Prevent sharing incompatible ZlibCompressor instances between

GzipCodec and DefaultCodec. (cdouglas)

HADOOP-5463. Balancer throws "Not a host:port pair" unless port is

specified in fs.default.name. (Stuart White via hairong)

HADOOP-5514. Fix JobTracker metrics and add metrics for wating, failed

tasks. (cdouglas)

HADOOP-5516. Fix NullPointerException in TaskMemoryManagerThread

that comes when monitored processes disappear when the thread is

running. (Vinod Kumar Vavilapalli via yhemanth)

HADOOP-5382. Support combiners in the new context object API. (omalley)

HADOOP-5471. Fixes a problem to do with updating the log.index file in the

case where a cleanup task is run. (Amareshwari Sriramadasu via ddas)

HADOOP-5534. Fixed a deadlock in Fair scheduler's servlet.

(Rahul Kumar Singh via yhemanth)

HADOOP-5328. Fixes a problem in the renaming of job history files during

job recovery. (Amar Kamat via ddas)

HADOOP-5417. Don't ignore InterruptedExceptions that happen when calling

into rpc. (omalley)

HADOOP-5320. Add a close() in TestMapReduceLocal. (Jothi Padmanabhan

via szetszwo)

HADOOP-5520. Fix a typo in disk quota help message. (Ravi Phulari

via szetszwo)

HADOOP-5519. Remove claims from mapred-default.xml that prime numbers

of tasks are helpful. (Owen O'Malley via szetszwo)

HADOOP-5484. TestRecoveryManager fails wtih FileAlreadyExistsException.

(Amar Kamat via hairong)

HADOOP-5564. Limit the JVM heap size in the java command for initializing

JAVA\_PLATFORM. (Suresh Srinivas via szetszwo)

HADOOP-5565. Add API for failing/finalized jobs to the JT metrics

instrumentation. (Jerome Boulon via cdouglas)

HADOOP-5390. Remove duplicate jars from tarball, src from binary tarball

added by hdfsproxy. (Zhiyong Zhang via cdouglas)

HADOOP-5066. Building binary tarball should not build docs/javadocs, copy

src, or run jdiff. (Giridharan Kesavan via cdouglas)

HADOOP-5459. Fix undetected CRC errors where intermediate output is closed

before it has been completely consumed. (cdouglas)

HADOOP-5571. Remove widening primitive conversion in TupleWritable mask

manipulation. (Jingkei Ly via cdouglas)

HADOOP-5588. Remove an unnecessary call to listStatus(..) in

FileSystem.globStatusInternal(..). (Hairong Kuang via szetszwo)

HADOOP-5473. Solves a race condition in killing a task - the state is KILLED

if there is a user request pending to kill the task and the TT reported

the state as SUCCESS. (Amareshwari Sriramadasu via ddas)

HADOOP-5576. Fix LocalRunner to work with the new context object API in

mapreduce. (Tom White via omalley)

HADOOP-4374. Installs a shutdown hook in the Task JVM so that log.index is

updated before the JVM exits. Also makes the update to log.index atomic.

(Ravi Gummadi via ddas)

HADOOP-5577. Add a verbose flag to mapreduce.Job.waitForCompletion to get

the running job's information printed to the user's stdout as it runs.

(omalley)

HADOOP-5607. Fix NPE in TestCapacityScheduler. (cdouglas)

HADOOP-5605. All the replicas incorrectly got marked as corrupt. (hairong)

HADOOP-5337. JobTracker, upon restart, now waits for the TaskTrackers to

join back before scheduling new tasks. This fixes race conditions associated

with greedy scheduling as was the case earlier. (Amar Kamat via ddas)

HADOOP-5227. Fix distcp so -update and -delete can be meaningfully

combined. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-5305. Increase number of files and print debug messages in

TestCopyFiles. (szetszwo)

HADOOP-5548. Add synchronization for JobTracker methods in RecoveryManager.

(Amareshwari Sriramadasu via sharad)

HADOOP-3810. NameNode seems unstable on a cluster with little space left.

(hairong)

HADOOP-5068. Fix NPE in TestCapacityScheduler. (Vinod Kumar Vavilapalli

via szetszwo)

HADOOP-5585. Clear FileSystem statistics between tasks when jvm-reuse

is enabled. (omalley)

HADOOP-5394. JobTracker might schedule 2 attempts of the same task

with the same attempt id across restarts. (Amar Kamat via sharad)

HADOOP-5645. After HADOOP-4920 we need a place to checkin

releasenotes.html. (nigel)

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BUG FIXES

HADOOP-5154. Fixes a deadlock in the fairshare scheduler.

(Matei Zaharia via yhemanth)

HADOOP-5146. Fixes a race condition that causes LocalDirAllocator to miss

files. (Devaraj Das via yhemanth)

HADOOP-4638. Fixes job recovery to not crash the job tracker for problems

with a single job file. (Amar Kamat via yhemanth)

HADOOP-5384. Fix a problem that DataNodeCluster creates blocks with

generationStamp == 1. (szetszwo)

HADOOP-5376. Fixes the code handling lost tasktrackers to set the task state

to KILLED\_UNCLEAN only for relevant type of tasks.

(Amareshwari Sriramadasu via yhemanth)

HADOOP-5285. Fixes the issues - (1) obtainTaskCleanupTask checks whether job is

inited before trying to lock the JobInProgress (2) Moves the CleanupQueue class

outside the TaskTracker and makes it a generic class that is used by the

JobTracker also for deleting the paths on the job's output fs. (3) Moves the

references to completedJobStore outside the block where the JobTracker is locked.

(ddas)

HADOOP-5392. Fixes a problem to do with JT crashing during recovery when

the job files are garbled. (Amar Kamat via ddas)

HADOOP-5332. Appending to files is not allowed (by default) unless

dfs.support.append is set to true. (dhruba)

HADOOP-5333. libhdfs supports appending to files. (dhruba)

HADOOP-3998. Fix dfsclient exception when JVM is shutdown. (dhruba)

HADOOP-5440. Fixes a problem to do with removing a taskId from the list

of taskIds that the TaskTracker's TaskMemoryManager manages.

(Amareshwari Sriramadasu via ddas)

HADOOP-5446. Restore TaskTracker metrics. (cdouglas)

HADOOP-5449. Fixes the history cleaner thread.

(Amareshwari Sriramadasu via ddas)

HADOOP-5479. NameNode should not send empty block replication request to

DataNode. (hairong)

HADOOP-5259. Job with output hdfs:/user/<username>/outputpath (no

authority) fails with Wrong FS. (Doug Cutting via hairong)

HADOOP-5522. Documents the setup/cleanup tasks in the mapred tutorial.

(Amareshwari Sriramadasu via ddas)

HADOOP-5549. ReplicationMonitor should schedule both replication and

deletion work in one iteration. (hairong)

HADOOP-5554. DataNodeCluster and CreateEditsLog should create blocks with

the same generation stamp value. (hairong via szetszwo)

HADOOP-5231. Clones the TaskStatus before passing it to the JobInProgress.

(Amareshwari Sriramadasu via ddas)

HADOOP-4719. Fix documentation of 'ls' format for FsShell. (Ravi Phulari

via cdouglas)

HADOOP-5374. Fixes a NPE problem in getTasksToSave method.

(Amareshwari Sriramadasu via ddas)

HADOOP-4780. Cache the size of directories in DistributedCache, avoiding

long delays in recalculating it. (He Yongqiang via cdouglas)

HADOOP-5551. Prevent directory destruction on file create.

(Brian Bockelman via shv)

HADOOP-5671. Fix FNF exceptions when copying from old versions of

HftpFileSystem. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-5213. Fix Null pointer exception caused when bzip2compression

was used and user closed a output stream without writing any data.

(Zheng Shao via dhruba)

HADOOP-5579. Set errno correctly in libhdfs for permission, quota, and FNF

conditions. (Brian Bockelman via cdouglas)

HADOOP-5816. Fixes a problem in the KeyFieldBasedComparator to do with

ArrayIndexOutOfBounds exception. (He Yongqiang via ddas)

HADOOP-5951. Add Apache license header to StorageInfo.java. (Suresh

Srinivas via szetszwo)

Release 0.19.1 - 2009-02-23

IMPROVEMENTS

HADOOP-4739. Fix spelling and grammar, improve phrasing of some sections in

mapred tutorial. (Vivek Ratan via cdouglas)

HADOOP-3894. DFSClient logging improvements. (Steve Loughran via shv)

HADOOP-5126. Remove empty file BlocksWithLocations.java (shv)

HADOOP-5127. Remove public methods in FSDirectory. (Jakob Homan via shv)

BUG FIXES

HADOOP-4697. Fix getBlockLocations in KosmosFileSystem to handle multiple

blocks correctly. (Sriram Rao via cdouglas)

HADOOP-4420. Add null checks for job, caused by invalid job IDs.

(Aaron Kimball via tomwhite)

HADOOP-4632. Fix TestJobHistoryVersion to use test.build.dir instead of the

current workding directory for scratch space. (Amar Kamat via cdouglas)

HADOOP-4508. Fix FSDataOutputStream.getPos() for append. (dhruba via

szetszwo)

HADOOP-4727. Fix a group checking bug in fill\_stat\_structure(...) in

fuse-dfs. (Brian Bockelman via szetszwo)

HADOOP-4836. Correct typos in mapred related documentation. (Jord? Polo

via szetszwo)

HADOOP-4821. Usage description in the Quotas guide documentations are

incorrect. (Boris Shkolnik via hairong)

HADOOP-4847. Moves the loading of OutputCommitter to the Task.

(Amareshwari Sriramadasu via ddas)

HADOOP-4966. Marks completed setup tasks for removal.

(Amareshwari Sriramadasu via ddas)

HADOOP-4982. TestFsck should run in Eclipse. (shv)

HADOOP-5008. TestReplication#testPendingReplicationRetry leaves an opened

fd unclosed. (hairong)

HADOOP-4906. Fix TaskTracker OOM by keeping a shallow copy of JobConf in

TaskTracker.TaskInProgress. (Sharad Agarwal via acmurthy)

HADOOP-4918. Fix bzip2 compression to work with Sequence Files.

(Zheng Shao via dhruba).

HADOOP-4965. TestFileAppend3 should close FileSystem. (shv)

HADOOP-4967. Fixes a race condition in the JvmManager to do with killing

tasks. (ddas)

HADOOP-5009. DataNode#shutdown sometimes leaves data block scanner

verification log unclosed. (hairong)

HADOOP-5086. Use the appropriate FileSystem for trash URIs. (cdouglas)

HADOOP-4955. Make DBOutputFormat us column names from setOutput().

(Kevin Peterson via enis)

HADOOP-4862. Minor : HADOOP-3678 did not remove all the cases of

spurious IOExceptions logged by DataNode. (Raghu Angadi)

HADOOP-5034. NameNode should send both replication and deletion requests

to DataNode in one reply to a heartbeat. (hairong)

HADOOP-4759. Removes temporary output directory for failed and killed

tasks by launching special CLEANUP tasks for the same.

(Amareshwari Sriramadasu via ddas)

HADOOP-5161. Accepted sockets do not get placed in

DataXceiverServer#childSockets. (hairong)

HADOOP-5193. Correct calculation of edits modification time. (shv)

HADOOP-4494. Allow libhdfs to append to files.

(Pete Wyckoff via dhruba)

HADOOP-5166. Fix JobTracker restart to work when ACLs are configured

for the JobTracker. (Amar Kamat via yhemanth).

HADOOP-5067. Fixes TaskInProgress.java to keep track of count of failed and

killed tasks correctly. (Amareshwari Sriramadasu via ddas)

HADOOP-4760. HDFS streams should not throw exceptions when closed twice.

(enis)

Release 0.19.0 - 2008-11-18

INCOMPATIBLE CHANGES

HADOOP-3595. Remove deprecated methods for mapred.combine.once

functionality, which was necessary to providing backwards

compatible combiner semantics for 0.18. (cdouglas via omalley)

HADOOP-3667. Remove the following deprecated methods from JobConf:

addInputPath(Path)

getInputPaths()

getMapOutputCompressionType()

getOutputPath()

getSystemDir()

setInputPath(Path)

setMapOutputCompressionType(CompressionType style)

setOutputPath(Path)

(Amareshwari Sriramadasu via omalley)

HADOOP-3652. Remove deprecated class OutputFormatBase.

(Amareshwari Sriramadasu via cdouglas)

HADOOP-2885. Break the hadoop.dfs package into separate packages under

hadoop.hdfs that reflect whether they are client, server, protocol,

etc. DistributedFileSystem and DFSClient have moved and are now

considered package private. (Sanjay Radia via omalley)

HADOOP-2325. Require Java 6. (cutting)

HADOOP-372. Add support for multiple input paths with a different

InputFormat and Mapper for each path. (Chris Smith via tomwhite)

HADOOP-1700. Support appending to file in HDFS. (dhruba)

HADOOP-3792. Make FsShell -test consistent with unix semantics, returning

zero for true and non-zero for false. (Ben Slusky via cdouglas)

HADOOP-3664. Remove the deprecated method InputFormat.validateInput,

which is no longer needed. (tomwhite via omalley)

HADOOP-3549. Give more meaningful errno's in libhdfs. In particular,

EACCES is returned for permission problems. (Ben Slusky via omalley)

HADOOP-4036. ResourceStatus was added to TaskTrackerStatus by HADOOP-3759,

so increment the InterTrackerProtocol version. (Hemanth Yamijala via

omalley)

HADOOP-3150. Moves task promotion to tasks. Defines a new interface for

committing output files. Moves job setup to jobclient, and moves jobcleanup

to a separate task. (Amareshwari Sriramadasu via ddas)

HADOOP-3446. Keep map outputs in memory during the reduce. Remove

fs.inmemory.size.mb and replace with properties defining in memory map

output retention during the shuffle and reduce relative to maximum heap

usage. (cdouglas)

HADOOP-3245. Adds the feature for supporting JobTracker restart. Running

jobs can be recovered from the history file. The history file format has

been modified to support recovery. The task attempt ID now has the

JobTracker start time to disinguish attempts of the same TIP across

restarts. (Amar Ramesh Kamat via ddas)

HADOOP-4007. REMOVE DFSFileInfo - FileStatus is sufficient.

(Sanjay Radia via hairong)

HADOOP-3722. Fixed Hadoop Streaming and Hadoop Pipes to use the Tool

interface and GenericOptionsParser. (Enis Soztutar via acmurthy)

HADOOP-2816. Cluster summary at name node web reports the space

utilization as:

Configured Capacity: capacity of all the data directories - Reserved space

Present Capacity: Space available for dfs,i.e. remaining+used space

DFS Used%: DFS used space/Present Capacity

(Suresh Srinivas via hairong)

HADOOP-3938. Disk space quotas for HDFS. This is similar to namespace

quotas in 0.18. (rangadi)

HADOOP-4293. Make Configuration Writable and remove unreleased

WritableJobConf. Configuration.write is renamed to writeXml. (omalley)

HADOOP-4281. Change dfsadmin to report available disk space in a format

consistent with the web interface as defined in HADOOP-2816. (Suresh

Srinivas via cdouglas)

HADOOP-4430. Further change the cluster summary at name node web that was

changed in HADOOP-2816:

Non DFS Used - This indicates the disk space taken by non DFS file from

the Configured capacity

DFS Used % - DFS Used % of Configured Capacity

DFS Remaining % - Remaing % Configured Capacity available for DFS use

DFS command line report reflects the same change. Config parameter

dfs.datanode.du.pct is no longer used and is removed from the

hadoop-default.xml. (Suresh Srinivas via hairong)

HADOOP-4116. Balancer should provide better resource management. (hairong)

HADOOP-4599. BlocksMap and BlockInfo made package private. (shv)

NEW FEATURES

HADOOP-3341. Allow streaming jobs to specify the field separator for map

and reduce input and output. The new configuration values are:

stream.map.input.field.separator

stream.map.output.field.separator

stream.reduce.input.field.separator

stream.reduce.output.field.separator

All of them default to "\t". (Zheng Shao via omalley)

HADOOP-3479. Defines the configuration file for the resource manager in

Hadoop. You can configure various parameters related to scheduling, such

as queues and queue properties here. The properties for a queue follow a

naming convention,such as, hadoop.rm.queue.queue-name.property-name.

(Hemanth Yamijala via ddas)

HADOOP-3149. Adds a way in which map/reducetasks can create multiple

outputs. (Alejandro Abdelnur via ddas)

HADOOP-3714. Add a new contrib, bash-tab-completion, which enables

bash tab completion for the bin/hadoop script. See the README file

in the contrib directory for the installation. (Chris Smith via enis)

HADOOP-3730. Adds a new JobConf constructor that disables loading

default configurations. (Alejandro Abdelnur via ddas)

HADOOP-3772. Add a new Hadoop Instrumentation api for the JobTracker and

the TaskTracker, refactor Hadoop Metrics as an implementation of the api.

(Ari Rabkin via acmurthy)

HADOOP-2302. Provides a comparator for numerical sorting of key fields.

(ddas)

HADOOP-153. Provides a way to skip bad records. (Sharad Agarwal via ddas)

HADOOP-657. Free disk space should be modelled and used by the scheduler

to make scheduling decisions. (Ari Rabkin via omalley)

HADOOP-3719. Initial checkin of Chukwa, which is a data collection and

analysis framework. (Jerome Boulon, Andy Konwinski, Ari Rabkin,

and Eric Yang)

HADOOP-3873. Add -filelimit and -sizelimit options to distcp to cap the

number of files/bytes copied in a particular run to support incremental

updates and mirroring. (TszWo (Nicholas), SZE via cdouglas)

HADOOP-3585. FailMon package for hardware failure monitoring and

analysis of anomalies. (Ioannis Koltsidas via dhruba)

HADOOP-1480. Add counters to the C++ Pipes API. (acmurthy via omalley)

HADOOP-3854. Add support for pluggable servlet filters in the HttpServers.

(Tsz Wo (Nicholas) Sze via omalley)

HADOOP-3759. Provides ability to run memory intensive jobs without

affecting other running tasks on the nodes. (Hemanth Yamijala via ddas)

HADOOP-3746. Add a fair share scheduler. (Matei Zaharia via omalley)

HADOOP-3754. Add a thrift interface to access HDFS. (dhruba via omalley)

HADOOP-3828. Provides a way to write skipped records to DFS.

(Sharad Agarwal via ddas)

HADOOP-3948. Separate name-node edits and fsimage directories.

(Lohit Vijayarenu via shv)

HADOOP-3939. Add an option to DistCp to delete files at the destination

not present at the source. (Tsz Wo (Nicholas) Sze via cdouglas)

HADOOP-3601. Add a new contrib module for Hive, which is a sql-like

query processing tool that uses map/reduce. (Ashish Thusoo via omalley)

HADOOP-3866. Added sort and multi-job updates in the JobTracker web ui.

(Craig Weisenfluh via omalley)

HADOOP-3698. Add access control to control who is allowed to submit or

modify jobs in the JobTracker. (Hemanth Yamijala via omalley)

HADOOP-1869. Support access times for HDFS files. (dhruba)

HADOOP-3941. Extend FileSystem API to return file-checksums.

(szetszwo)

HADOOP-3581. Prevents memory intensive user tasks from taking down

nodes. (Vinod K V via ddas)

HADOOP-3970. Provides a way to recover counters written to JobHistory.

(Amar Kamat via ddas)

HADOOP-3702. Adds ChainMapper and ChainReducer classes allow composing

chains of Maps and Reduces in a single Map/Reduce job, something like

MAP+ / REDUCE MAP\*. (Alejandro Abdelnur via ddas)

HADOOP-3445. Add capacity scheduler that provides guaranteed capacities to

queues as a percentage of the cluster. (Vivek Ratan via omalley)

HADOOP-3992. Add a synthetic load generation facility to the test

directory. (hairong via szetszwo)

HADOOP-3981. Implement a distributed file checksum algorithm in HDFS

and change DistCp to use file checksum for comparing src and dst files

(szetszwo)

HADOOP-3829. Narrown down skipped records based on user acceptable value.

(Sharad Agarwal via ddas)

HADOOP-3930. Add common interfaces for the pluggable schedulers and the

cli & gui clients. (Sreekanth Ramakrishnan via omalley)

HADOOP-4176. Implement getFileChecksum(Path) in HftpFileSystem. (szetszwo)

HADOOP-249. Reuse JVMs across Map-Reduce Tasks.

Configuration changes to hadoop-default.xml:

add mapred.job.reuse.jvm.num.tasks

(Devaraj Das via acmurthy)

HADOOP-4070. Provide a mechanism in Hive for registering UDFs from the

query language. (tomwhite)

HADOOP-2536. Implement a JDBC based database input and output formats to

allow Map-Reduce applications to work with databases. (Fredrik Hedberg and

Enis Soztutar via acmurthy)

HADOOP-3019. A new library to support total order partitions.

(cdouglas via omalley)

HADOOP-3924. Added a 'KILLED' job status. (Subramaniam Krishnan via

acmurthy)

IMPROVEMENTS

HADOOP-4205. hive: metastore and ql to use the refactored SerDe library.

(zshao)

HADOOP-4106. libhdfs: add time, permission and user attribute support

(part 2). (Pete Wyckoff through zshao)

HADOOP-4104. libhdfs: add time, permission and user attribute support.

(Pete Wyckoff through zshao)

HADOOP-3908. libhdfs: better error message if llibhdfs.so doesn't exist.

(Pete Wyckoff through zshao)

HADOOP-3732. Delay intialization of datanode block verification till

the verification thread is started. (rangadi)

HADOOP-1627. Various small improvements to 'dfsadmin -report' output.

(rangadi)

HADOOP-3577. Tools to inject blocks into name node and simulated

data nodes for testing. (Sanjay Radia via hairong)

HADOOP-2664. Add a lzop compatible codec, so that files compressed by lzop

may be processed by map/reduce. (cdouglas via omalley)

HADOOP-3655. Add additional ant properties to control junit. (Steve

Loughran via omalley)

HADOOP-3543. Update the copyright year to 2008. (cdouglas via omalley)

HADOOP-3587. Add a unit test for the contrib/data\_join framework.

(cdouglas)

HADOOP-3402. Add terasort example program (omalley)

HADOOP-3660. Add replication factor for injecting blocks in simulated

datanodes. (Sanjay Radia via cdouglas)

HADOOP-3684. Add a cloning function to the contrib/data\_join framework

permitting users to define a more efficient method for cloning values from

the reduce than serialization/deserialization. (Runping Qi via cdouglas)

HADOOP-3478. Improves the handling of map output fetching. Now the

randomization is by the hosts (and not the map outputs themselves).

(Jothi Padmanabhan via ddas)

HADOOP-3617. Removed redundant checks of accounting space in MapTask and

makes the spill thread persistent so as to avoid creating a new one for

each spill. (Chris Douglas via acmurthy)

HADOOP-3412. Factor the scheduler out of the JobTracker and make

it pluggable. (Tom White and Brice Arnould via omalley)

HADOOP-3756. Minor. Remove unused dfs.client.buffer.dir from

hadoop-default.xml. (rangadi)

HADOOP-3747. Adds counter suport for MultipleOutputs.

(Alejandro Abdelnur via ddas)

HADOOP-3169. LeaseChecker daemon should not be started in DFSClient

constructor. (TszWo (Nicholas), SZE via hairong)

HADOOP-3824. Move base functionality of StatusHttpServer to a core

package. (TszWo (Nicholas), SZE via cdouglas)

HADOOP-3646. Add a bzip2 compatible codec, so bzip compressed data

may be processed by map/reduce. (Abdul Qadeer via cdouglas)

HADOOP-3861. MapFile.Reader and Writer should implement Closeable.

(tomwhite via omalley)

HADOOP-3791. Introduce generics into ReflectionUtils. (Chris Smith via

cdouglas)

HADOOP-3694. Improve unit test performance by changing

MiniDFSCluster to listen only on 127.0.0.1. (cutting)

HADOOP-3620. Namenode should synchronously resolve a datanode's network

location when the datanode registers. (hairong)

HADOOP-3860. NNThroughputBenchmark is extended with rename and delete

benchmarks. (shv)

HADOOP-3892. Include unix group name in JobConf. (Matei Zaharia via johan)

HADOOP-3875. Change the time period between heartbeats to be relative to

the end of the heartbeat rpc, rather than the start. This causes better

behavior if the JobTracker is overloaded. (acmurthy via omalley)

HADOOP-3853. Move multiple input format (HADOOP-372) extension to

library package. (tomwhite via johan)

HADOOP-9. Use roulette scheduling for temporary space when the size

is not known. (Ari Rabkin via omalley)

HADOOP-3202. Use recursive delete rather than FileUtil.fullyDelete.

(Amareshwari Sriramadasu via omalley)

HADOOP-3368. Remove common-logging.properties from conf. (Steve Loughran

via omalley)

HADOOP-3851. Fix spelling mistake in FSNamesystemMetrics. (Steve Loughran

via omalley)

HADOOP-3780. Remove asynchronous resolution of network topology in the

JobTracker (Amar Kamat via omalley)

HADOOP-3852. Add ShellCommandExecutor.toString method to make nicer

error messages. (Steve Loughran via omalley)

HADOOP-3844. Include message of local exception in RPC client failures.

(Steve Loughran via omalley)

HADOOP-3935. Split out inner classes from DataNode.java. (johan)

HADOOP-3905. Create generic interfaces for edit log streams. (shv)

HADOOP-3062. Add metrics to DataNode and TaskTracker to record network

traffic for HDFS reads/writes and MR shuffling. (cdouglas)

HADOOP-3742. Remove HDFS from public java doc and add javadoc-dev for

generative javadoc for developers. (Sanjay Radia via omalley)

HADOOP-3944. Improve documentation for public TupleWritable class in

join package. (Chris Douglas via enis)

HADOOP-2330. Preallocate HDFS transaction log to improve performance.

(dhruba and hairong)

HADOOP-3965. Convert DataBlockScanner into a package private class. (shv)

HADOOP-3488. Prevent hadoop-daemon from rsync'ing log files (Stefan

Groshupf and Craig Macdonald via omalley)

HADOOP-3342. Change the kill task actions to require http post instead of

get to prevent accidental crawls from triggering it. (enis via omalley)

HADOOP-3937. Limit the job name in the job history filename to 50

characters. (Matei Zaharia via omalley)

HADOOP-3943. Remove unnecessary synchronization in

NetworkTopology.pseudoSortByDistance. (hairong via omalley)

HADOOP-3498. File globbing alternation should be able to span path

components. (tomwhite)

HADOOP-3361. Implement renames for NativeS3FileSystem.

(Albert Chern via tomwhite)

HADOOP-3605. Make EC2 scripts show an error message if AWS\_ACCOUNT\_ID is

unset. (Al Hoang via tomwhite)

HADOOP-4147. Remove unused class JobWithTaskContext from class

JobInProgress. (Amareshwari Sriramadasu via johan)

HADOOP-4151. Add a byte-comparable interface that both Text and

BytesWritable implement. (cdouglas via omalley)

HADOOP-4174. Move fs image/edit log methods from ClientProtocol to

NamenodeProtocol. (shv via szetszwo)

HADOOP-4181. Include a .gitignore and saveVersion.sh change to support

developing under git. (omalley)

HADOOP-4186. Factor LineReader out of LineRecordReader. (tomwhite via

omalley)

HADOOP-4184. Break the module dependencies between core, hdfs, and

mapred. (tomwhite via omalley)

HADOOP-4075. test-patch.sh now spits out ant commands that it runs.

(Ramya R via nigel)

HADOOP-4117. Improve configurability of Hadoop EC2 instances.

(tomwhite)

HADOOP-2411. Add support for larger CPU EC2 instance types.

(Chris K Wensel via tomwhite)

HADOOP-4083. Changed the configuration attribute queue.name to

mapred.job.queue.name. (Hemanth Yamijala via acmurthy)

HADOOP-4194. Added the JobConf and JobID to job-related methods in

JobTrackerInstrumentation for better metrics. (Mac Yang via acmurthy)

HADOOP-3975. Change test-patch script to report working the dir

modifications preventing the suite from being run. (Ramya R via cdouglas)

HADOOP-4124. Added a command-line switch to allow users to set job

priorities, also allow it to be manipulated via the web-ui. (Hemanth

Yamijala via acmurthy)

HADOOP-2165. Augmented JobHistory to include the URIs to the tasks'

userlogs. (Vinod Kumar Vavilapalli via acmurthy)

HADOOP-4062. Remove the synchronization on the output stream when a

connection is closed and also remove an undesirable exception when

a client is stoped while there is no pending RPC request. (hairong)

HADOOP-4227. Remove the deprecated class org.apache.hadoop.fs.ShellCommand.

(szetszwo)

HADOOP-4006. Clean up FSConstants and move some of the constants to

better places. (Sanjay Radia via rangadi)

HADOOP-4279. Trace the seeds of random sequences in append unit tests to

make itermitant failures reproducible. (szetszwo via cdouglas)

HADOOP-4209. Remove the change to the format of task attempt id by

incrementing the task attempt numbers by 1000 when the job restarts.

(Amar Kamat via omalley)

HADOOP-4301. Adds forrest doc for the skip bad records feature.

(Sharad Agarwal via ddas)

HADOOP-4354. Separate TestDatanodeDeath.testDatanodeDeath() into 4 tests.

(szetszwo)

HADOOP-3790. Add more unit tests for testing HDFS file append. (szetszwo)

HADOOP-4321. Include documentation for the capacity scheduler. (Hemanth

Yamijala via omalley)

HADOOP-4424. Change menu layout for Hadoop documentation (Boris Shkolnik

via cdouglas).

HADOOP-4438. Update forrest documentation to include missing FsShell

commands. (Suresh Srinivas via cdouglas)

HADOOP-4105. Add forrest documentation for libhdfs.

(Pete Wyckoff via cutting)

HADOOP-4510. Make getTaskOutputPath public. (Chris Wensel via omalley)

OPTIMIZATIONS

HADOOP-3556. Removed lock contention in MD5Hash by changing the

singleton MessageDigester by an instance per Thread using

ThreadLocal. (Iv?n de Prado via omalley)

HADOOP-3328. When client is writing data to DFS, only the last

datanode in the pipeline needs to verify the checksum. Saves around

30% CPU on intermediate datanodes. (rangadi)

HADOOP-3863. Use a thread-local string encoder rather than a static one

that is protected by a lock. (acmurthy via omalley)

HADOOP-3864. Prevent the JobTracker from locking up when a job is being

initialized. (acmurthy via omalley)

HADOOP-3816. Faster directory listing in KFS. (Sriram Rao via omalley)

HADOOP-2130. Pipes submit job should have both blocking and non-blocking

versions. (acmurthy via omalley)

HADOOP-3769. Make the SampleMapper and SampleReducer from

GenericMRLoadGenerator public, so they can be used in other contexts.

(Lingyun Yang via omalley)

HADOOP-3514. Inline the CRCs in intermediate files as opposed to reading

it from a different .crc file. (Jothi Padmanabhan via ddas)

HADOOP-3638. Caches the iFile index files in memory to reduce seeks

(Jothi Padmanabhan via ddas)

HADOOP-4225. FSEditLog.logOpenFile() should persist accessTime

rather than modificationTime. (shv)

HADOOP-4380. Made several new classes (Child, JVMId,

JobTrackerInstrumentation, QueueManager, ResourceEstimator,

TaskTrackerInstrumentation, and TaskTrackerMetricsInst) in

org.apache.hadoop.mapred package private instead of public. (omalley)

BUG FIXES

HADOOP-3563. Refactor the distributed upgrade code so that it is

easier to identify datanode and namenode related code. (dhruba)

HADOOP-3640. Fix the read method in the NativeS3InputStream. (tomwhite via

omalley)

HADOOP-3711. Fixes the Streaming input parsing to properly find the

separator. (Amareshwari Sriramadasu via ddas)

HADOOP-3725. Prevent TestMiniMRMapDebugScript from swallowing exceptions.

(Steve Loughran via cdouglas)

HADOOP-3726. Throw exceptions from TestCLI setup and teardown instead of

swallowing them. (Steve Loughran via cdouglas)

HADOOP-3721. Refactor CompositeRecordReader and related mapred.join classes

to make them clearer. (cdouglas)

HADOOP-3720. Re-read the config file when dfsadmin -refreshNodes is invoked

so dfs.hosts and dfs.hosts.exclude are observed. (lohit vijayarenu via

cdouglas)

HADOOP-3485. Allow writing to files over fuse.

(Pete Wyckoff via dhruba)

HADOOP-3723. The flags to the libhdfs.create call can be treated as

a bitmask. (Pete Wyckoff via dhruba)

HADOOP-3643. Filter out completed tasks when asking for running tasks in

the JobTracker web/ui. (Amar Kamat via omalley)

HADOOP-3777. Ensure that Lzo compressors/decompressors correctly handle the

case where native libraries aren't available. (Chris Douglas via acmurthy)

HADOOP-3728. Fix SleepJob so that it doesn't depend on temporary files,

this ensures we can now run more than one instance of SleepJob

simultaneously. (Chris Douglas via acmurthy)

HADOOP-3795. Fix saving image files on Namenode with different checkpoint

stamps. (Lohit Vijayarenu via mahadev)

HADOOP-3624. Improving createeditslog to create tree directory structure.

(Lohit Vijayarenu via mahadev)

HADOOP-3778. DFSInputStream.seek() did not retry in case of some errors.

(Luo Ning via rangadi)

HADOOP-3661. The handling of moving files deleted through fuse-dfs to

Trash made similar to the behaviour from dfs shell.

(Pete Wyckoff via dhruba)

HADOOP-3819. Unset LANG and LC\_CTYPE in saveVersion.sh to make it

compatible with non-English locales. (Rong-En Fan via cdouglas)

HADOOP-3848. Cache calls to getSystemDir in the TaskTracker instead of

calling it for each task start. (acmurthy via omalley)

HADOOP-3131. Fix reduce progress reporting for compressed intermediate

data. (Matei Zaharia via acmurthy)

HADOOP-3796. fuse-dfs configuration is implemented as file system

mount options. (Pete Wyckoff via dhruba)

HADOOP-3836. Fix TestMultipleOutputs to correctly clean up. (Alejandro

Abdelnur via acmurthy)

HADOOP-3805. Improve fuse-dfs write performance.

(Pete Wyckoff via zshao)

HADOOP-3846. Fix unit test CreateEditsLog to generate paths correctly.

(Lohit Vjayarenu via cdouglas)

HADOOP-3904. Fix unit tests using the old dfs package name.

(TszWo (Nicholas), SZE via johan)

HADOOP-3319. Fix some HOD error messages to go stderr instead of

stdout. (Vinod Kumar Vavilapalli via omalley)

HADOOP-3907. Move INodeDirectoryWithQuota to its own .java file.

(Tsz Wo (Nicholas), SZE via hairong)

HADOOP-3919. Fix attribute name in hadoop-default for

mapred.jobtracker.instrumentation. (Ari Rabkin via omalley)

HADOOP-3903. Change the package name for the servlets to be hdfs instead of

dfs. (Tsz Wo (Nicholas) Sze via omalley)

HADOOP-3773. Change Pipes to set the default map output key and value

types correctly. (Koji Noguchi via omalley)

HADOOP-3952. Fix compilation error in TestDataJoin referencing dfs package.

(omalley)

HADOOP-3951. Fix package name for FSNamesystem logs and modify other

hard-coded Logs to use the class name. (cdouglas)

HADOOP-3889. Improve error reporting from HftpFileSystem, handling in

DistCp. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-3946. Fix TestMapRed after hadoop-3664. (tomwhite via omalley)

HADOOP-3949. Remove duplicate jars from Chukwa. (Jerome Boulon via omalley)

HADOOP-3933. DataNode sometimes sends up to io.byte.per.checksum bytes

more than required to client. (Ning Li via rangadi)

HADOOP-3962. Shell command "fs -count" should support paths with different

file systems. (Tsz Wo (Nicholas), SZE via mahadev)

HADOOP-3957. Fix javac warnings in DistCp and TestCopyFiles. (Tsz Wo

(Nicholas), SZE via cdouglas)

HADOOP-3958. Fix TestMapRed to check the success of test-job. (omalley via

acmurthy)

HADOOP-3985. Fix TestHDFSServerPorts to use random ports. (Hairong Kuang

via omalley)

HADOOP-3964. Fix javadoc warnings introduced by FailMon. (dhruba)

HADOOP-3785. Fix FileSystem cache to be case-insensitive for scheme and

authority. (Bill de hOra via cdouglas)

HADOOP-3506. Fix a rare NPE caused by error handling in S3. (Tom White via

cdouglas)

HADOOP-3705. Fix mapred.join parser to accept InputFormats named with

underscore and static, inner classes. (cdouglas)

HADOOP-4023. Fix javadoc warnings introduced when the HDFS javadoc was

made private. (omalley)

HADOOP-4030. Remove lzop from the default list of codecs. (Arun Murthy via

cdouglas)

HADOOP-3961. Fix task disk space requirement estimates for virtual

input jobs. Delays limiting task placement until after 10% of the maps

have finished. (Ari Rabkin via omalley)

HADOOP-2168. Fix problem with C++ record reader's progress not being

reported to framework. (acmurthy via omalley)

HADOOP-3966. Copy findbugs generated output files to PATCH\_DIR while

running test-patch. (Ramya R via lohit)

HADOOP-4037. Fix the eclipse plugin for versions of kfs and log4j. (nigel

via omalley)

HADOOP-3950. Cause the Mini MR cluster to wait for task trackers to

register before continuing. (enis via omalley)

HADOOP-3910. Remove unused ClusterTestDFSNamespaceLogging and

ClusterTestDFS. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-3954. Disable record skipping by default. (Sharad Agarwal via

cdouglas)

HADOOP-4050. Fix TestFairScheduler to use absolute paths for the work

directory. (Matei Zaharia via omalley)

HADOOP-4069. Keep temporary test files from TestKosmosFileSystem under

test.build.data instead of /tmp. (lohit via omalley)

HADOOP-4078. Create test files for TestKosmosFileSystem in separate

directory under test.build.data. (lohit)

HADOOP-3968. Fix getFileBlockLocations calls to use FileStatus instead

of Path reflecting the new API. (Pete Wyckoff via lohit)

HADOOP-3963. libhdfs does not exit on its own, instead it returns error

to the caller and behaves as a true library. (Pete Wyckoff via dhruba)

HADOOP-4100. Removes the cleanupTask scheduling from the Scheduler

implementations and moves it to the JobTracker.

(Amareshwari Sriramadasu via ddas)

HADOOP-4097. Make hive work well with speculative execution turned on.

(Joydeep Sen Sarma via dhruba)

HADOOP-4113. Changes to libhdfs to not exit on its own, rather return

an error code to the caller. (Pete Wyckoff via dhruba)

HADOOP-4054. Remove duplicate lease removal during edit log loading.

(hairong)

HADOOP-4071. FSNameSystem.isReplicationInProgress should add an

underReplicated block to the neededReplication queue using method

"add" not "update". (hairong)

HADOOP-4154. Fix type warnings in WritableUtils. (szetszwo via omalley)

HADOOP-4133. Log files generated by Hive should reside in the

build directory. (Prasad Chakka via dhruba)

HADOOP-4094. Hive now has hive-default.xml and hive-site.xml similar

to core hadoop. (Prasad Chakka via dhruba)

HADOOP-4112. Handles cleanupTask in JobHistory

(Amareshwari Sriramadasu via ddas)

HADOOP-3831. Very slow reading clients sometimes failed while reading.

(rangadi)

HADOOP-4155. Use JobTracker's start time while initializing JobHistory's

JobTracker Unique String. (lohit)

HADOOP-4099. Fix null pointer when using HFTP from an 0.18 server.

(dhruba via omalley)

HADOOP-3570. Includes user specified libjar files in the client side

classpath path. (Sharad Agarwal via ddas)

HADOOP-4129. Changed memory limits of TaskTracker and Tasks to be in

KiloBytes rather than bytes. (Vinod Kumar Vavilapalli via acmurthy)

HADOOP-4139. Optimize Hive multi group-by.

(Namin Jain via dhruba)

HADOOP-3911. Add a check to fsck options to make sure -files is not

the first option to resolve conflicts with GenericOptionsParser

(lohit)

HADOOP-3623. Refactor LeaseManager. (szetszwo)

HADOOP-4125. Handles Reduce cleanup tip on the web ui.

(Amareshwari Sriramadasu via ddas)

HADOOP-4087. Hive Metastore API for php and python clients.

(Prasad Chakka via dhruba)

HADOOP-4197. Update DATA\_TRANSFER\_VERSION for HADOOP-3981. (szetszwo)

HADOOP-4138. Refactor the Hive SerDe library to better structure

the interfaces to the serializer and de-serializer.

(Zheng Shao via dhruba)

HADOOP-4195. Close compressor before returning to codec pool.

(acmurthy via omalley)

HADOOP-2403. Escapes some special characters before logging to

history files. (Amareshwari Sriramadasu via ddas)

HADOOP-4200. Fix a bug in the test-patch.sh script.

(Ramya R via nigel)

HADOOP-4084. Add explain plan capabilities to Hive Query Language.

(Ashish Thusoo via dhruba)

HADOOP-4121. Preserve cause for exception if the initialization of

HistoryViewer for JobHistory fails. (Amareshwari Sri Ramadasu via

acmurthy)

HADOOP-4213. Fixes NPE in TestLimitTasksPerJobTaskScheduler.

(Sreekanth Ramakrishnan via ddas)

HADOOP-4077. Setting access and modification time for a file

requires write permissions on the file. (dhruba)

HADOOP-3592. Fix a couple of possible file leaks in FileUtil

(Bill de hOra via rangadi)

HADOOP-4120. Hive interactive shell records the time taken by a

query. (Raghotham Murthy via dhruba)

HADOOP-4090. The hive scripts pick up hadoop from HADOOP\_HOME

and then the path. (Raghotham Murthy via dhruba)

HADOOP-4242. Remove extra ";" in FSDirectory that blocks compilation

in some IDE's. (szetszwo via omalley)

HADOOP-4249. Fix eclipse path to include the hsqldb.jar. (szetszwo via

omalley)

HADOOP-4247. Move InputSampler into org.apache.hadoop.mapred.lib, so that

examples.jar doesn't depend on tools.jar. (omalley)

HADOOP-4269. Fix the deprecation of LineReader by extending the new class

into the old name and deprecating it. Also update the tests to test the

new class. (cdouglas via omalley)

HADOOP-4280. Fix conversions between seconds in C and milliseconds in

Java for access times for files. (Pete Wyckoff via rangadi)

HADOOP-4254. -setSpaceQuota command does not convert "TB" extenstion to

terabytes properly. Implementation now uses StringUtils for parsing this.

(Raghu Angadi)

HADOOP-4259. Findbugs should run over tools.jar also. (cdouglas via

omalley)

HADOOP-4275. Move public method isJobValidName from JobID to a private

method in JobTracker. (omalley)

HADOOP-4173. fix failures in TestProcfsBasedProcessTree and

TestTaskTrackerMemoryManager tests. ProcfsBasedProcessTree and

memory management in TaskTracker are disabled on Windows.

(Vinod K V via rangadi)

HADOOP-4189. Fixes the history blocksize & intertracker protocol version

issues introduced as part of HADOOP-3245. (Amar Kamat via ddas)

HADOOP-4190. Fixes the backward compatibility issue with Job History.

introduced by HADOOP-3245 and HADOOP-2403. (Amar Kamat via ddas)

HADOOP-4237. Fixes the TestStreamingBadRecords.testNarrowDown testcase.

(Sharad Agarwal via ddas)

HADOOP-4274. Capacity scheduler accidently modifies the underlying

data structures when browing the job lists. (Hemanth Yamijala via omalley)

HADOOP-4309. Fix eclipse-plugin compilation. (cdouglas)

HADOOP-4232. Fix race condition in JVM reuse when multiple slots become

free. (ddas via acmurthy)

HADOOP-4302. Fix a race condition in TestReduceFetch that can yield false

negatvies. (cdouglas)

HADOOP-3942. Update distcp documentation to include features introduced in

HADOOP-3873, HADOOP-3939. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-4319. fuse-dfs dfs\_read function returns as many bytes as it is

told to read unlesss end-of-file is reached. (Pete Wyckoff via dhruba)

HADOOP-4246. Ensure we have the correct lower bound on the number of

retries for fetching map-outputs; also fixed the case where the reducer

automatically kills on too many unique map-outputs could not be fetched

for small jobs. (Amareshwari Sri Ramadasu via acmurthy)

HADOOP-4163. Report FSErrors from map output fetch threads instead of

merely logging them. (Sharad Agarwal via cdouglas)

HADOOP-4261. Adds a setup task for jobs. This is required so that we

don't setup jobs that haven't been inited yet (since init could lead

to job failure). Only after the init has successfully happened do we

launch the setupJob task. (Amareshwari Sriramadasu via ddas)

HADOOP-4256. Removes Completed and Failed Job tables from

jobqueue\_details.jsp. (Sreekanth Ramakrishnan via ddas)

HADOOP-4267. Occasional exceptions during shutting down HSQLDB is logged

but not rethrown. (enis)

HADOOP-4018. The number of tasks for a single job cannot exceed a

pre-configured maximum value. (dhruba)

HADOOP-4288. Fixes a NPE problem in CapacityScheduler.

(Amar Kamat via ddas)

HADOOP-4014. Create hard links with 'fsutil hardlink' on Windows. (shv)

HADOOP-4393. Merged org.apache.hadoop.fs.permission.AccessControlException

and org.apache.hadoop.security.AccessControlIOException into a single

class hadoop.security.AccessControlException. (omalley via acmurthy)

HADOOP-4287. Fixes an issue to do with maintaining counts of running/pending

maps/reduces. (Sreekanth Ramakrishnan via ddas)

HADOOP-4361. Makes sure that jobs killed from command line are killed

fast (i.e., there is a slot to run the cleanup task soon).

(Amareshwari Sriramadasu via ddas)

HADOOP-4400. Add "hdfs://" to fs.default.name on quickstart.html.

(Jeff Hammerbacher via omalley)

HADOOP-4378. Fix TestJobQueueInformation to use SleepJob rather than

WordCount via TestMiniMRWithDFS. (Sreekanth Ramakrishnan via acmurthy)

HADOOP-4376. Fix formatting in hadoop-default.xml for

hadoop.http.filter.initializers. (Enis Soztutar via acmurthy)

HADOOP-4410. Adds an extra arg to the API FileUtil.makeShellPath to

determine whether to canonicalize file paths or not.

(Amareshwari Sriramadasu via ddas)

HADOOP-4236. Ensure un-initialized jobs are killed correctly on

user-demand. (Sharad Agarwal via acmurthy)

HADOOP-4373. Fix calculation of Guaranteed Capacity for the

capacity-scheduler. (Hemanth Yamijala via acmurthy)

HADOOP-4053. Schedulers must be notified when jobs complete. (Amar Kamat via omalley)

HADOOP-4335. Fix FsShell -ls for filesystems without owners/groups. (David

Phillips via cdouglas)

HADOOP-4426. TestCapacityScheduler broke due to the two commits HADOOP-4053

and HADOOP-4373. This patch fixes that. (Hemanth Yamijala via ddas)

HADOOP-4418. Updates documentation in forrest for Mapred, streaming and pipes.

(Amareshwari Sriramadasu via ddas)

HADOOP-3155. Ensure that there is only one thread fetching

TaskCompletionEvents on TaskTracker re-init. (Dhruba Borthakur via

acmurthy)

HADOOP-4425. Fix EditLogInputStream to overload the bulk read method.

(cdouglas)

HADOOP-4427. Adds the new queue/job commands to the manual.

(Sreekanth Ramakrishnan via ddas)

HADOOP-4278. Increase debug logging for unit test TestDatanodeDeath.

Fix the case when primary is dead. (dhruba via szetszwo)

HADOOP-4423. Keep block length when the block recovery is triggered by

append. (szetszwo)

HADOOP-4449. Fix dfsadmin usage. (Raghu Angadi via cdouglas)

HADOOP-4455. Added TestSerDe so that unit tests can run successfully.

(Ashish Thusoo via dhruba)

HADOOP-4457. Fixes an input split logging problem introduced by

HADOOP-3245. (Amareshwari Sriramadasu via ddas)

HADOOP-4464. Separate out TestFileCreationClient from TestFileCreation.

(Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-4404. saveFSImage() removes files from a storage directory that do

not correspond to its type. (shv)

HADOOP-4149. Fix handling of updates to the job priority, by changing the

list of jobs to be keyed by the priority, submit time, and job tracker id.

(Amar Kamat via omalley)

HADOOP-4296. Fix job client failures by not retiring a job as soon as it

is finished. (dhruba)

HADOOP-4439. Remove configuration variables that aren't usable yet, in

particular mapred.tasktracker.tasks.maxmemory and mapred.task.max.memory.

(Hemanth Yamijala via omalley)

HADOOP-4230. Fix for serde2 interface, limit operator, select \* operator,

UDF trim functions and sampling. (Ashish Thusoo via dhruba)

HADOOP-4358. No need to truncate access time in INode. Also fixes NPE

in CreateEditsLog. (Raghu Angadi)

HADOOP-4387. TestHDFSFileSystemContract fails on windows nightly builds.

(Raghu Angadi)

HADOOP-4466. Ensure that SequenceFileOutputFormat isn't tied to Writables

and can be used with other Serialization frameworks. (Chris Wensel via

acmurthy)

HADOOP-4525. Fix ipc.server.ipcnodelay originally missed in in HADOOP-2232.

(cdouglas via Clint Morgan)

HADOOP-4498. Ensure that JobHistory correctly escapes the job name so that

regex patterns work. (Chris Wensel via acmurthy)

HADOOP-4446. Modify guaranteed capacity labels in capacity scheduler's UI

to reflect the information being displayed. (Sreekanth Ramakrishnan via

yhemanth)

HADOOP-4282. Some user facing URLs are not filtered by user filters.

(szetszwo)

HADOOP-4595. Fixes two race conditions - one to do with updating free slot count,

and another to do with starting the MapEventsFetcher thread. (ddas)

HADOOP-4552. Fix a deadlock in RPC server. (Raghu Angadi)

HADOOP-4471. Sort running jobs by priority in the capacity scheduler.

(Amar Kamat via yhemanth)

HADOOP-4500. Fix MultiFileSplit to get the FileSystem from the relevant

path rather than the JobClient. (Joydeep Sen Sarma via cdouglas)

Release 0.18.4 - Unreleased

BUG FIXES

HADOOP-5114. Remove timeout for accept() in DataNode. This makes accept()

fail in JDK on Windows and causes many tests to fail. (Raghu Angadi)

HADOOP-5192. Block receiver should not remove a block that's created or

being written by other threads. (hairong)

HADOOP-5134. FSNamesystem#commitBlockSynchronization adds under-construction

block locations to blocksMap. (Dhruba Borthakur via hairong)

HADOOP-5412. Simulated DataNode should not write to a block that's being

written by another thread. (hairong)

HADOOP-5465. Fix the problem of blocks remaining under-replicated by

providing synchronized modification to the counter xmitsInProgress in

DataNode. (hairong)

HADOOP-5557. Fixes some minor problems in TestOverReplicatedBlocks.

(szetszwo)

HADOOP-5644. Namenode is stuck in safe mode. (suresh Srinivas via hairong)

HADOOP-6017. Lease Manager in NameNode does not handle certain characters

in filenames. This results in fatal errors in Secondary NameNode and while

restrating NameNode. (Tsz Wo (Nicholas), SZE via rangadi)

Release 0.18.3 - 2009-01-27

IMPROVEMENTS

HADOOP-4150. Include librecordio in hadoop releases. (Giridharan Kesavan

via acmurthy)

HADOOP-4668. Improve documentation for setCombinerClass to clarify the

restrictions on combiners. (omalley)

BUG FIXES

HADOOP-4499. DFSClient should invoke checksumOk only once. (Raghu Angadi)

HADOOP-4597. Calculate mis-replicated blocks when safe-mode is turned

off manually. (shv)

HADOOP-3121. lsr should keep listing the remaining items but not

terminate if there is any IOException. (szetszwo)

HADOOP-4610. Always calculate mis-replicated blocks when safe-mode is

turned off. (shv)

HADOOP-3883. Limit namenode to assign at most one generation stamp for

a particular block within a short period. (szetszwo)

HADOOP-4556. Block went missing. (hairong)

HADOOP-4643. NameNode should exclude excessive replicas when counting

live replicas for a block. (hairong)

HADOOP-4703. Should not wait for proxy forever in lease recovering.

(szetszwo)

HADOOP-4647. NamenodeFsck should close the DFSClient it has created.

(szetszwo)

HADOOP-4616. Fuse-dfs can handle bad values from FileSystem.read call.

(Pete Wyckoff via dhruba)

HADOOP-4061. Throttle Datanode decommission monitoring in Namenode.

(szetszwo)

HADOOP-4659. Root cause of connection failure is being lost to code that

uses it for delaying startup. (Steve Loughran and Hairong via hairong)

HADOOP-4614. Lazily open segments when merging map spills to avoid using

too many file descriptors. (Yuri Pradkin via cdouglas)

HADOOP-4257. The DFS client should pick only one datanode as the candidate

to initiate lease recovery. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-4713. Fix librecordio to handle records larger than 64k. (Christian

Kunz via cdouglas)

HADOOP-4635. Fix a memory leak in fuse dfs. (pete wyckoff via mahadev)

HADOOP-4714. Report status between merges and make the number of records

between progress reports configurable. (Jothi Padmanabhan via cdouglas)

HADOOP-4726. Fix documentation typos "the the". (Edward J. Yoon via

szetszwo)

HADOOP-4679. Datanode prints tons of log messages: waiting for threadgroup

to exit, active threads is XX. (hairong)

HADOOP-4746. Job output directory should be normalized. (hairong)

HADOOP-4717. Removal of default port# in NameNode.getUri() causes a

map/reduce job failed to prompt temporary output. (hairong)

HADOOP-4778. Check for zero size block meta file when updating a block.

(szetszwo)

HADOOP-4742. Replica gets deleted by mistake. (Wang Xu via hairong)

HADOOP-4702. Failed block replication leaves an incomplete block in

receiver's tmp data directory. (hairong)

HADOOP-4613. Fix block browsing on Web UI. (Johan Oskarsson via shv)

HADOOP-4806. HDFS rename should not use src path as a regular expression.

(szetszwo)

HADOOP-4795. Prevent lease monitor getting into an infinite loop when

leases and the namespace tree does not match. (szetszwo)

HADOOP-4620. Fixes Streaming to handle well the cases of map/reduce with empty

input/output. (Ravi Gummadi via ddas)

HADOOP-4857. Fixes TestUlimit to have exactly 1 map in the jobs spawned.

(Ravi Gummadi via ddas)

HADOOP-4810. Data lost at cluster startup time. (hairong)

HADOOP-4797. Improve how RPC server reads and writes large buffers. Avoids

soft-leak of direct buffers and excess copies in NIO layer. (Raghu Angadi)

HADOOP-4840. TestNodeCount sometimes fails with NullPointerException.

(hairong)

HADOOP-4904. Fix deadlock while leaving safe mode. (shv)

HADOOP-1980. 'dfsadmin -safemode enter' should prevent the namenode from

leaving safemode automatically. (shv & Raghu Angadi)

HADOOP-4951. Lease monitor should acquire the LeaseManager lock but not the

Monitor lock. (szetszwo)

HADOOP-4935. processMisReplicatedBlocks() should not clear

excessReplicateMap. (shv)

HADOOP-4961. Fix ConcurrentModificationException in lease recovery

of empty files. (shv)

HADOOP-4971. A long (unexpected) delay at datanodes could make subsequent

block reports from many datanode at the same time. (Raghu Angadi)

HADOOP-4910. NameNode should exclude replicas when choosing excessive

replicas to delete to avoid data lose. (hairong)

HADOOP-4983. Fixes a problem in updating Counters in the status reporting.

(Amareshwari Sriramadasu via ddas)

Release 0.18.2 - 2008-11-03

BUG FIXES

HADOOP-3614. Fix a bug that Datanode may use an old GenerationStamp to get

meta file. (szetszwo)

HADOOP-4314. Simulated datanodes should not include blocks that are still

being written in their block report. (Raghu Angadi)

HADOOP-4228. dfs datanode metrics, bytes\_read and bytes\_written, overflow

due to incorrect type used. (hairong)

HADOOP-4395. The FSEditLog loading is incorrect for the case OP\_SET\_OWNER.

(szetszwo)

HADOOP-4351. FSNamesystem.getBlockLocationsInternal throws

ArrayIndexOutOfBoundsException. (hairong)

HADOOP-4403. Make TestLeaseRecovery and TestFileCreation more robust.

(szetszwo)

HADOOP-4292. Do not support append() for LocalFileSystem. (hairong)

HADOOP-4399. Make fuse-dfs multi-thread access safe.

(Pete Wyckoff via dhruba)

HADOOP-4369. Use setMetric(...) instead of incrMetric(...) for metrics

averages. (Brian Bockelman via szetszwo)

HADOOP-4469. Rename and add the ant task jar file to the tar file. (nigel)

HADOOP-3914. DFSClient sends Checksum Ok only once for a block.

(Christian Kunz via hairong)

HADOOP-4467. SerializationFactory now uses the current context ClassLoader

allowing for user supplied Serialization instances. (Chris Wensel via

acmurthy)

HADOOP-4517. Release FSDataset lock before joining ongoing create threads.

(szetszwo)

HADOOP-4526. fsck failing with NullPointerException. (hairong)

HADOOP-4483 Honor the max parameter in DatanodeDescriptor.getBlockArray(..)

(Ahad Rana and Hairong Kuang via szetszwo)

HADOOP-4340. Correctly set the exit code from JobShell.main so that the

'hadoop jar' command returns the right code to the user. (acmurthy)

NEW FEATURES

HADOOP-2421. Add jdiff output to documentation, listing all API

changes from the prior release. (cutting)

Release 0.18.1 - 2008-09-17

IMPROVEMENTS

HADOOP-3934. Upgrade log4j to 1.2.15. (omalley)

BUG FIXES

HADOOP-3995. In case of quota failure on HDFS, rename does not restore

source filename. (rangadi)

HADOOP-3821. Prevent SequenceFile and IFile from duplicating codecs in

CodecPool when closed more than once. (Arun Murthy via cdouglas)

HADOOP-4040. Remove coded default of the IPC idle connection timeout

from the TaskTracker, which was causing HDFS client connections to not be

collected. (ddas via omalley)

HADOOP-4046. Made WritableComparable's constructor protected instead of

private to re-enable class derivation. (cdouglas via omalley)

HADOOP-3940. Fix in-memory merge condition to wait when there are no map

outputs or when the final map outputs are being fetched without contention.

(cdouglas)

Release 0.18.0 - 2008-08-19

INCOMPATIBLE CHANGES

HADOOP-2703. The default options to fsck skips checking files

that are being written to. The output of fsck is incompatible

with previous release. (lohit vijayarenu via dhruba)

HADOOP-2865. FsShell.ls() printout format changed to print file names

in the end of the line. (Edward J. Yoon via shv)

HADOOP-3283. The Datanode has a RPC server. It currently supports

two RPCs: the first RPC retrives the metadata about a block and the

second RPC sets the generation stamp of an existing block.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2797. Code related to upgrading to 0.14 (Block CRCs) is

removed. As result, upgrade to 0.18 or later from 0.13 or earlier

is not supported. If upgrading from 0.13 or earlier is required,

please upgrade to an intermediate version (0.14-0.17) and then

to this version. (rangadi)

HADOOP-544. This issue introduces new classes JobID, TaskID and

TaskAttemptID, which should be used instead of their string counterparts.

Functions in JobClient, TaskReport, RunningJob, jobcontrol.Job and

TaskCompletionEvent that use string arguments are deprecated in favor

of the corresponding ones that use ID objects. Applications can use

xxxID.toString() and xxxID.forName() methods to convert/restore objects

to/from strings. (Enis Soztutar via ddas)

HADOOP-2188. RPC client sends a ping rather than throw timeouts.

RPC server does not throw away old RPCs. If clients and the server are on

different versions, they are not able to function well. In addition,

The property ipc.client.timeout is removed from the default hadoop

configuration. It also removes metrics RpcOpsDiscardedOPsNum. (hairong)

HADOOP-2181. This issue adds logging for input splits in Jobtracker log

and jobHistory log. Also adds web UI for viewing input splits in job UI

and history UI. (Amareshwari Sriramadasu via ddas)

HADOOP-3226. Run combiners multiple times over map outputs as they

are merged in both the map and the reduce tasks. (cdouglas via omalley)

HADOOP-3329. DatanodeDescriptor objects should not be stored in the

fsimage. (dhruba)

HADOOP-2656. The Block object has a generation stamp inside it.

Existing blocks get a generation stamp of 0. This is needed to support

appends. (dhruba)

HADOOP-3390. Removed deprecated ClientProtocol.abandonFileInProgress().

(Tsz Wo (Nicholas), SZE via rangadi)

HADOOP-3405. Made some map/reduce internal classes non-public:

MapTaskStatus, ReduceTaskStatus, JobSubmissionProtocol,

CompletedJobStatusStore. (enis via omaley)

HADOOP-3265. Removed depcrecated API getFileCacheHints().

(Lohit Vijayarenu via rangadi)

HADOOP-3310. The namenode instructs the primary datanode to do lease

recovery. The block gets a new generation stamp.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2909. Improve IPC idle connection management. Property

ipc.client.maxidletime is removed from the default configuration,

instead it is defined as twice of the ipc.client.connection.maxidletime.

A connection with outstanding requests won't be treated as idle.

(hairong)

HADOOP-3459. Change in the output format of dfs -ls to more closely match

/bin/ls. New format is: perm repl owner group size date name

(Mukund Madhugiri via omally)

HADOOP-3113. An fsync invoked on a HDFS file really really

persists data! The datanode moves blocks in the tmp directory to

the real block directory on a datanode-restart. (dhruba)

HADOOP-3452. Change fsck to return non-zero status for a corrupt

FileSystem. (lohit vijayarenu via cdouglas)

HADOOP-3193. Include the address of the client that found the corrupted

block in the log. Also include a CorruptedBlocks metric to track the size

of the corrupted block map. (cdouglas)

HADOOP-3512. Separate out the tools into a tools jar. (omalley)

HADOOP-3598. Ensure that temporary task-output directories are not created

if they are not necessary e.g. for Maps with no side-effect files.

(acmurthy)

HADOOP-3665. Modify WritableComparator so that it only creates instances

of the keytype if the type does not define a WritableComparator. Calling

the superclass compare will throw a NullPointerException. Also define

a RawComparator for NullWritable and permit it to be written as a key

to SequenceFiles. (cdouglas)

HADOOP-3673. Avoid deadlock caused by DataNode RPC receoverBlock().

(Tsz Wo (Nicholas), SZE via rangadi)

NEW FEATURES

HADOOP-3074. Provides a UrlStreamHandler for DFS and other FS,

relying on FileSystem (taton)

HADOOP-2585. Name-node imports namespace data from a recent checkpoint

accessible via a NFS mount. (shv)

HADOOP-3061. Writable types for doubles and bytes. (Andrzej

Bialecki via omalley)

HADOOP-2857. Allow libhdfs to set jvm options. (Craig Macdonald

via omalley)

HADOOP-3317. Add default port for HDFS namenode. The port in

"hdfs:" URIs now defaults to 8020, so that one may simply use URIs

of the form "hdfs://example.com/dir/file". (cutting)

HADOOP-2019. Adds support for .tar, .tgz and .tar.gz files in

DistributedCache (Amareshwari Sriramadasu via ddas)

HADOOP-3058. Add FSNamesystem status metrics.

(Lohit Vjayarenu via rangadi)

HADOOP-1915. Allow users to specify counters via strings instead

of enumerations. (tomwhite via omalley)

HADOOP-2065. Delay invalidating corrupt replicas of block until its

is removed from under replicated state. If all replicas are found to

be corrupt, retain all copies and mark the block as corrupt.

(Lohit Vjayarenu via rangadi)

HADOOP-3221. Adds org.apache.hadoop.mapred.lib.NLineInputFormat, which

splits files into splits each of N lines. N can be specified by

configuration property "mapred.line.input.format.linespermap", which

defaults to 1. (Amareshwari Sriramadasu via ddas)

HADOOP-3336. Direct a subset of annotated FSNamesystem calls for audit

logging. (cdouglas)

HADOOP-3400. A new API FileSystem.deleteOnExit() that facilitates

handling of temporary files in HDFS. (dhruba)

HADOOP-4. Add fuse-dfs to contrib, permitting one to mount an

HDFS filesystem on systems that support FUSE, e.g., Linux.

(Pete Wyckoff via cutting)

HADOOP-3246. Add FTPFileSystem. (Ankur Goel via cutting)

HADOOP-3250. Extend FileSystem API to allow appending to files.

(Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-3177. Implement Syncable interface for FileSystem.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-1328. Implement user counters in streaming. (tomwhite via

omalley)

HADOOP-3187. Quotas for namespace management. (Hairong Kuang via ddas)

HADOOP-3307. Support for Archives in Hadoop. (Mahadev Konar via ddas)

HADOOP-3460. Add SequenceFileAsBinaryOutputFormat to permit direct

writes of serialized data. (Koji Noguchi via cdouglas)

HADOOP-3230. Add ability to get counter values from command

line. (tomwhite via omalley)

HADOOP-930. Add support for native S3 files. (tomwhite via cutting)

HADOOP-3502. Quota API needs documentation in Forrest. (hairong)

HADOOP-3413. Allow SequenceFile.Reader to use serialization

framework. (tomwhite via omalley)

HADOOP-3541. Import of the namespace from a checkpoint documented

in hadoop user guide. (shv)

IMPROVEMENTS

HADOOP-3677. Simplify generation stamp upgrade by making is a

local upgrade on datandodes. Deleted distributed upgrade.

(rangadi)

HADOOP-2928. Remove deprecated FileSystem.getContentLength().

(Lohit Vijayarenu via rangadi)

HADOOP-3130. Make the connect timeout smaller for getFile.

(Amar Ramesh Kamat via ddas)

HADOOP-3160. Remove deprecated exists() from ClientProtocol and

FSNamesystem (Lohit Vjayarenu via rangadi)

HADOOP-2910. Throttle IPC Clients during bursts of requests or

server slowdown. Clients retry connection for up to 15 minutes

when socket connection times out. (hairong)

HADOOP-3295. Allow TextOutputFormat to use configurable spearators.

(Zheng Shao via cdouglas).

HADOOP-3308. Improve QuickSort by excluding values eq the pivot from the

partition. (cdouglas)

HADOOP-2461. Trim property names in configuration.

(Tsz Wo (Nicholas), SZE via shv)

HADOOP-2799. Deprecate o.a.h.io.Closable in favor of java.io.Closable.

(Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-3345. Enhance the hudson-test-patch target to cleanup messages,

fix minor defects, and add eclipse plugin and python unit tests. (nigel)

HADOOP-3144. Improve robustness of LineRecordReader by defining a maximum

line length (mapred.linerecordreader.maxlength), thereby avoiding reading

too far into the following split. (Zheng Shao via cdouglas)

HADOOP-3334. Move lease handling from FSNamesystem into a seperate class.

(Tsz Wo (Nicholas), SZE via rangadi)

HADOOP-3332. Reduces the amount of logging in Reducer's shuffle phase.

(Devaraj Das)

HADOOP-3355. Enhances Configuration class to accept hex numbers for getInt

and getLong. (Amareshwari Sriramadasu via ddas)

HADOOP-3350. Add an argument to distcp to permit the user to limit the

number of maps. (cdouglas)

HADOOP-3013. Add corrupt block reporting to fsck.

(lohit vijayarenu via cdouglas)

HADOOP-3377. Remove TaskRunner::replaceAll and replace with equivalent

String::replace. (Brice Arnould via cdouglas)

HADOOP-3398. Minor improvement to a utility function in that participates

in backoff calculation. (cdouglas)

HADOOP-3381. Clear referenced when directories are deleted so that

effect of memory leaks are not multiplied. (rangadi)

HADOOP-2867. Adds the task's CWD to its LD\_LIBRARY\_PATH.

(Amareshwari Sriramadasu via ddas)

HADOOP-3232. DU class runs the 'du' command in a seperate thread so

that it does not block user. DataNode misses heartbeats in large

nodes otherwise. (Johan Oskarsson via rangadi)

HADOOP-3035. During block transfers between datanodes, the receiving

datanode, now can report corrupt replicas received from src node to

the namenode. (Lohit Vijayarenu via rangadi)

HADOOP-3434. Retain the cause of the bind failure in Server::bind.

(Steve Loughran via cdouglas)

HADOOP-3429. Increases the size of the buffers used for the communication

for Streaming jobs. (Amareshwari Sriramadasu via ddas)

HADOOP-3486. Change default for initial block report to 0 seconds

and document it. (Sanjay Radia via omalley)

HADOOP-3448. Improve the text in the assertion making sure the

layout versions are consistent in the data node. (Steve Loughran

via omalley)

HADOOP-2095. Improve the Map-Reduce shuffle/merge by cutting down

buffer-copies; changed intermediate sort/merge to use the new IFile format

rather than SequenceFiles and compression of map-outputs is now

implemented by compressing the entire file rather than SequenceFile

compression. Shuffle also has been changed to use a simple byte-buffer

manager rather than the InMemoryFileSystem.

Configuration changes to hadoop-default.xml:

deprecated mapred.map.output.compression.type

(acmurthy)

HADOOP-236. JobTacker now refuses connection from a task tracker with a

different version number. (Sharad Agarwal via ddas)

HADOOP-3427. Improves the shuffle scheduler. It now waits for notifications

from shuffle threads when it has scheduled enough, before scheduling more.

(ddas)

HADOOP-2393. Moves the handling of dir deletions in the tasktracker to

a separate thread. (Amareshwari Sriramadasu via ddas)

HADOOP-3501. Deprecate InMemoryFileSystem. (cutting via omalley)

HADOOP-3366. Stall the shuffle while in-memory merge is in progress.

(acmurthy)

HADOOP-2916. Refactor src structure, but leave package structure alone.

(Raghu Angadi via mukund)

HADOOP-3492. Add forrest documentation for user archives.

(Mahadev Konar via hairong)

HADOOP-3467. Improve documentation for FileSystem::deleteOnExit.

(Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-3379. Documents stream.non.zero.exit.status.is.failure for Streaming.

(Amareshwari Sriramadasu via ddas)

HADOOP-3096. Improves documentation about the Task Execution Environment in

the Map-Reduce tutorial. (Amareshwari Sriramadasu via ddas)

HADOOP-2984. Add forrest documentation for DistCp. (cdouglas)

HADOOP-3406. Add forrest documentation for Profiling.

(Amareshwari Sriramadasu via ddas)

HADOOP-2762. Add forrest documentation for controls of memory limits on

hadoop daemons and Map-Reduce tasks. (Amareshwari Sriramadasu via ddas)

HADOOP-3535. Fix documentation and name of IOUtils.close to

reflect that it should only be used in cleanup contexts. (omalley)

HADOOP-3593. Updates the mapred tutorial. (ddas)

HADOOP-3547. Documents the way in which native libraries can be distributed

via the DistributedCache. (Amareshwari Sriramadasu via ddas)

HADOOP-3606. Updates the Streaming doc. (Amareshwari Sriramadasu via ddas)

HADOOP-3532. Add jdiff reports to the build scripts. (omalley)

HADOOP-3100. Develop tests to test the DFS command line interface. (mukund)

HADOOP-3688. Fix up HDFS docs. (Robert Chansler via hairong)

OPTIMIZATIONS

HADOOP-3274. The default constructor of BytesWritable creates empty

byte array. (Tsz Wo (Nicholas), SZE via shv)

HADOOP-3272. Remove redundant copy of Block object in BlocksMap.

(Lohit Vjayarenu via shv)

HADOOP-3164. Reduce DataNode CPU usage by using FileChannel.tranferTo().

On Linux DataNode takes 5 times less CPU while serving data. Results may

vary on other platforms. (rangadi)

HADOOP-3248. Optimization of saveFSImage. (Dhruba via shv)

HADOOP-3297. Fetch more task completion events from the job

tracker and task tracker. (ddas via omalley)

HADOOP-3364. Faster image and log edits loading. (shv)

HADOOP-3369. Fast block processing during name-node startup. (shv)

HADOOP-1702. Reduce buffer copies when data is written to DFS.

DataNodes take 30% less CPU while writing data. (rangadi)

HADOOP-3095. Speed up split generation in the FileInputSplit,

especially for non-HDFS file systems. Deprecates

InputFormat.validateInput. (tomwhite via omalley)

HADOOP-3552. Add forrest documentation for Hadoop commands.

(Sharad Agarwal via cdouglas)

BUG FIXES

HADOOP-2905. 'fsck -move' triggers NPE in NameNode.

(Lohit Vjayarenu via rangadi)

Increment ClientProtocol.versionID missed by HADOOP-2585. (shv)

HADOOP-3254. Restructure internal namenode methods that process

heartbeats to use well-defined BlockCommand object(s) instead of

using the base java Object. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-3176. Change lease record when a open-for-write-file

gets renamed. (dhruba)

HADOOP-3269. Fix a case when namenode fails to restart

while processing a lease record. ((Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-3282. Port issues in TestCheckpoint resolved. (shv)

HADOOP-3268. file:// URLs issue in TestUrlStreamHandler under Windows.

(taton)

HADOOP-3127. Deleting files in trash should really remove them.

(Brice Arnould via omalley)

HADOOP-3300. Fix locking of explicit locks in NetworkTopology.

(tomwhite via omalley)

HADOOP-3270. Constant DatanodeCommands are stored in static final

immutable variables for better code clarity.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2793. Fix broken links for worst performing shuffle tasks in

the job history page. (Amareshwari Sriramadasu via ddas)

HADOOP-3313. Avoid unnecessary calls to System.currentTimeMillis

in RPC::Invoker. (cdouglas)

HADOOP-3318. Recognize "Darwin" as an alias for "Mac OS X" to

support Soylatte. (Sam Pullara via omalley)

HADOOP-3301. Fix misleading error message when S3 URI hostname

contains an underscore. (tomwhite via omalley)

HADOOP-3338. Fix Eclipse plugin to compile after HADOOP-544 was

committed. Updated all references to use the new JobID representation.

(taton via nigel)

HADOOP-3337. Loading FSEditLog was broken by HADOOP-3283 since it

changed Writable serialization of DatanodeInfo. This patch handles it.

(Tsz Wo (Nicholas), SZE via rangadi)

HADOOP-3101. Prevent JobClient from throwing an exception when printing

usage. (Edward J. Yoon via cdouglas)

HADOOP-3119. Update javadoc for Text::getBytes to better describe its

behavior. (Tim Nelson via cdouglas)

HADOOP-2294. Fix documentation in libhdfs to refer to the correct free

function. (Craig Macdonald via cdouglas)

HADOOP-3335. Prevent the libhdfs build from deleting the wrong

files on make clean. (cutting via omalley)

HADOOP-2930. Make {start,stop}-balancer.sh work even if hadoop-daemon.sh

is not in the PATH. (Spiros Papadimitriou via hairong)

HADOOP-3085. Catch Exception in metrics util classes to ensure that

misconfigured metrics don't prevent others from updating. (cdouglas)

HADOOP-3299. CompositeInputFormat should configure the sub-input

formats. (cdouglas via omalley)

HADOOP-3309. Lower io.sort.mb and fs.inmemory.size.mb for MiniMRDFSSort

unit test so it passes on Windows. (lohit vijayarenu via cdouglas)

HADOOP-3348. TestUrlStreamHandler should set URLStreamFactory after

DataNodes are initialized. (Lohit Vijayarenu via rangadi)

HADOOP-3371. Ignore InstanceAlreadyExistsException from

MBeanUtil::registerMBean. (lohit vijayarenu via cdouglas)

HADOOP-3349. A file rename was incorrectly changing the name inside a

lease record. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-3365. Removes an unnecessary copy of the key from SegmentDescriptor

to MergeQueue. (Devaraj Das)

HADOOP-3388. Fix for TestDatanodeBlockScanner to handle blocks with

generation stamps in them. (dhruba)

HADOOP-3203. Fixes TaskTracker::localizeJob to pass correct file sizes

for the jarfile and the jobfile. (Amareshwari Sriramadasu via ddas)

HADOOP-3391. Fix a findbugs warning introduced by HADOOP-3248 (rangadi)

HADOOP-3393. Fix datanode shutdown to call DataBlockScanner::shutdown and

close its log, even if the scanner thread is not running. (lohit vijayarenu

via cdouglas)

HADOOP-3399. A debug message was logged at info level. (rangadi)

HADOOP-3396. TestDatanodeBlockScanner occationally fails.

(Lohit Vijayarenu via rangadi)

HADOOP-3339. Some of the failures on 3rd datanode in DFS write pipelie

are not detected properly. This could lead to hard failure of client's

write operation. (rangadi)

HADOOP-3409. Namenode should save the root inode into fsimage. (hairong)

HADOOP-3296. Fix task cache to work for more than two levels in the cache

hierarchy. This also adds a new counter to track cache hits at levels

greater than two. (Amar Kamat via cdouglas)

HADOOP-3375. Lease paths were sometimes not removed from

LeaseManager.sortedLeasesByPath. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-3424. Values returned by getPartition should be checked to

make sure they are in the range 0 to #reduces - 1 (cdouglas via

omalley)

HADOOP-3408. Change FSNamesystem to send its metrics as integers to

accommodate collectors that don't support long values. (lohit vijayarenu

via cdouglas)

HADOOP-3403. Fixes a problem in the JobTracker to do with handling of lost

tasktrackers. (Arun Murthy via ddas)

HADOOP-1318. Completed maps are not failed if the number of reducers are

zero. (Amareshwari Sriramadasu via ddas).

HADOOP-3351. Fixes the history viewer tool to not do huge StringBuffer

allocations. (Amareshwari Sriramadasu via ddas)

HADOOP-3419. Fixes TestFsck to wait for updates to happen before

checking results to make the test more reliable. (Lohit Vijaya

Renu via omalley)

HADOOP-3259. Makes failure to read system properties due to a

security manager non-fatal. (Edward Yoon via omalley)

HADOOP-3451. Update libhdfs to use FileSystem::getFileBlockLocations

instead of removed getFileCacheHints. (lohit vijayarenu via cdouglas)

HADOOP-3401. Update FileBench to set the new

"mapred.work.output.dir" property to work post-3041. (cdouglas via omalley)

HADOOP-2669. DFSClient locks pendingCreates appropriately. (dhruba)

HADOOP-3410. Fix KFS implemenation to return correct file

modification time. (Sriram Rao via cutting)

HADOOP-3340. Fix DFS metrics for BlocksReplicated, HeartbeatsNum, and

BlockReportsAverageTime. (lohit vijayarenu via cdouglas)

HADOOP-3435. Remove the assuption in the scripts that bash is at

/bin/bash and fix the test patch to require bash instead of sh.

(Brice Arnould via omalley)

HADOOP-3471. Fix spurious errors from TestIndexedSort and add additional

logging to let failures be reproducible. (cdouglas)

HADOOP-3443. Avoid copying map output across partitions when renaming a

single spill. (omalley via cdouglas)

HADOOP-3454. Fix Text::find to search only valid byte ranges. (Chad Whipkey

via cdouglas)

HADOOP-3417. Removes the static configuration variable,

commandLineConfig from JobClient. Moves the cli parsing from

JobShell to GenericOptionsParser. Thus removes the class

org.apache.hadoop.mapred.JobShell. (Amareshwari Sriramadasu via

ddas)

HADOOP-2132. Only RUNNING/PREP jobs can be killed. (Jothi Padmanabhan

via ddas)

HADOOP-3476. Code cleanup in fuse-dfs.

(Peter Wyckoff via dhruba)

HADOOP-2427. Ensure that the cwd of completed tasks is cleaned-up

correctly on task-completion. (Amareshwari Sri Ramadasu via acmurthy)

HADOOP-2565. Remove DFSPath cache of FileStatus.

(Tsz Wo (Nicholas), SZE via hairong)

HADOOP-3326. Cleanup the local-fs and in-memory merge in the ReduceTask by

spawing only one thread each for the on-disk and in-memory merge.

(Sharad Agarwal via acmurthy)

HADOOP-3493. Fix TestStreamingFailure to use FileUtil.fullyDelete to

ensure correct cleanup. (Lohit Vijayarenu via acmurthy)

HADOOP-3455. Fix NPE in ipc.Client in case of connection failure and

improve its synchronization. (hairong)

HADOOP-3240. Fix a testcase to not create files in the current directory.

Instead the file is created in the test directory (Mahadev Konar via ddas)

HADOOP-3496. Fix failure in TestHarFileSystem.testArchives due to change

in HADOOP-3095. (tomwhite)

HADOOP-3135. Get the system directory from the JobTracker instead of from

the conf. (Subramaniam Krishnan via ddas)

HADOOP-3503. Fix a race condition when client and namenode start

simultaneous recovery of the same block. (dhruba & Tsz Wo

(Nicholas), SZE)

HADOOP-3440. Fixes DistributedCache to not create symlinks for paths which

don't have fragments even when createSymLink is true.

(Abhijit Bagri via ddas)

HADOOP-3463. Hadoop-daemons script should cd to $HADOOP\_HOME. (omalley)

HADOOP-3489. Fix NPE in SafeModeMonitor. (Lohit Vijayarenu via shv)

HADOOP-3509. Fix NPE in FSNamesystem.close. (Tsz Wo (Nicholas), SZE via

shv)

HADOOP-3491. Name-node shutdown causes InterruptedException in

ResolutionMonitor. (Lohit Vijayarenu via shv)

HADOOP-3511. Fixes namenode image to not set the root's quota to an

invalid value when the quota was not saved in the image. (hairong)

HADOOP-3516. Ensure the JobClient in HadoopArchives is initialized

with a configuration. (Subramaniam Krishnan via omalley)

HADOOP-3513. Improve NNThroughputBenchmark log messages. (shv)

HADOOP-3519. Fix NPE in DFS FileSystem rename. (hairong via tomwhite)

HADOOP-3528. Metrics FilesCreated and files\_deleted metrics

do not match. (Lohit via Mahadev)

HADOOP-3418. When a directory is deleted, any leases that point to files

in the subdirectory are removed. ((Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-3542. Diables the creation of \_logs directory for the archives

directory. (Mahadev Konar via ddas)

HADOOP-3544. Fixes a documentation issue for hadoop archives.

(Mahadev Konar via ddas)

HADOOP-3517. Fixes a problem in the reducer due to which the last InMemory

merge may be missed. (Arun Murthy via ddas)

HADOOP-3548. Fixes build.xml to copy all \*.jar files to the dist.

(Owen O'Malley via ddas)

HADOOP-3363. Fix unformatted storage detection in FSImage. (shv)

HADOOP-3560. Fixes a problem to do with split creation in archives.

(Mahadev Konar via ddas)

HADOOP-3545. Fixes a overflow problem in archives.

(Mahadev Konar via ddas)

HADOOP-3561. Prevent the trash from deleting its parent directories.

(cdouglas)

HADOOP-3575. Fix the clover ant target after package refactoring.

(Nigel Daley via cdouglas)

HADOOP-3539. Fix the tool path in the bin/hadoop script under

cygwin. (Tsz Wo (Nicholas), Sze via omalley)

HADOOP-3520. TestDFSUpgradeFromImage triggers a race condition in the

Upgrade Manager. Fixed. (dhruba)

HADOOP-3586. Provide deprecated, backwards compatibile semantics for the

combiner to be run once and only once on each record. (cdouglas)

HADOOP-3533. Add deprecated methods to provide API compatibility

between 0.18 and 0.17. Remove the deprecated methods in trunk. (omalley)

HADOOP-3580. Fixes a problem to do with specifying a har as an input to

a job. (Mahadev Konar via ddas)

HADOOP-3333. Don't assign a task to a tasktracker that it failed to

execute earlier (used to happen in the case of lost tasktrackers where

the tasktracker would reinitialize and bind to a different port).

(Jothi Padmanabhan and Arun Murthy via ddas)

HADOOP-3534. Log IOExceptions that happen in closing the name

system when the NameNode shuts down. (Tsz Wo (Nicholas) Sze via omalley)

HADOOP-3546. TaskTracker re-initialization gets stuck in cleaning up.

(Amareshwari Sriramadasu via ddas)

HADOOP-3576. Fix NullPointerException when renaming a directory

to its subdirectory. (Tse Wo (Nicholas), SZE via hairong)

HADOOP-3320. Fix NullPointerException in NetworkTopology.getDistance().

(hairong)

HADOOP-3569. KFS input stream read() now correctly reads 1 byte

instead of 4. (Sriram Rao via omalley)

HADOOP-3599. Fix JobConf::setCombineOnceOnly to modify the instance rather

than a parameter. (Owen O'Malley via cdouglas)

HADOOP-3590. Null pointer exception in JobTracker when the task tracker is

not yet resolved. (Amar Ramesh Kamat via ddas)

HADOOP-3603. Fix MapOutputCollector to spill when io.sort.spill.percent is

1.0 and to detect spills when emitted records write no data. (cdouglas)

HADOOP-3615. Set DatanodeProtocol.versionID to the correct value.

(Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-3559. Fix the libhdfs test script and config to work with the

current semantics. (lohit vijayarenu via cdouglas)

HADOOP-3480. Need to update Eclipse template to reflect current trunk.

(Brice Arnould via tomwhite)

HADOOP-3588. Fixed usability issues with archives. (mahadev)

HADOOP-3635. Uncaught exception in DataBlockScanner.

(Tsz Wo (Nicholas), SZE via hairong)

HADOOP-3639. Exception when closing DFSClient while multiple files are

open. (Benjamin Gufler via hairong)

HADOOP-3572. SetQuotas usage interface has some minor bugs. (hairong)

HADOOP-3649. Fix bug in removing blocks from the corrupted block map.

(Lohit Vijayarenu via shv)

HADOOP-3604. Work around a JVM synchronization problem observed while

retrieving the address of direct buffers from compression code by obtaining

a lock during this call. (Arun C Murthy via cdouglas)

HADOOP-3683. Fix dfs metrics to count file listings rather than files

listed. (lohit vijayarenu via cdouglas)

HADOOP-3597. Fix SortValidator to use filesystems other than the default as

input. Validation job still runs on default fs.

(Jothi Padmanabhan via cdouglas)

HADOOP-3693. Fix archives, distcp and native library documentation to

conform to style guidelines. (Amareshwari Sriramadasu via cdouglas)

HADOOP-3653. Fix test-patch target to properly account for Eclipse

classpath jars. (Brice Arnould via nigel)

HADOOP-3692. Fix documentation for Cluster setup and Quick start guides.

(Amareshwari Sriramadasu via ddas)

HADOOP-3691. Fix streaming and tutorial docs. (Jothi Padmanabhan via ddas)

HADOOP-3630. Fix NullPointerException in CompositeRecordReader from empty

sources (cdouglas)

HADOOP-3706. Fix a ClassLoader issue in the mapred.join Parser that

prevents it from loading user-specified InputFormats.

(Jingkei Ly via cdouglas)

HADOOP-3718. Fix KFSOutputStream::write(int) to output a byte instead of

an int, per the OutputStream contract. (Sriram Rao via cdouglas)

HADOOP-3647. Add debug logs to help track down a very occassional,

hard-to-reproduce, bug in shuffle/merge on the reducer. (acmurthy)

HADOOP-3716. Prevent listStatus in KosmosFileSystem from returning

null for valid, empty directories. (Sriram Rao via cdouglas)

HADOOP-3752. Fix audit logging to record rename events. (cdouglas)

HADOOP-3737. Fix CompressedWritable to call Deflater::end to release

compressor memory. (Grant Glouser via cdouglas)

HADOOP-3670. Fixes JobTracker to clear out split bytes when no longer

required. (Amareshwari Sriramadasu via ddas)

HADOOP-3755. Update gridmix to work with HOD 0.4 (Runping Qi via cdouglas)

HADOOP-3743. Fix -libjars, -files, -archives options to work even if

user code does not implement tools. (Amareshwari Sriramadasu via mahadev)

HADOOP-3774. Fix typos in shell output. (Tsz Wo (Nicholas), SZE via

cdouglas)

HADOOP-3762. Fixed FileSystem cache to work with the default port. (cutting

via omalley)

HADOOP-3798. Fix tests compilation. (Mukund Madhugiri via omalley)

HADOOP-3794. Return modification time instead of zero for KosmosFileSystem.

(Sriram Rao via cdouglas)

HADOOP-3806. Remove debug statement to stdout from QuickSort. (cdouglas)

HADOOP-3776. Fix NPE at NameNode when datanode reports a block after it is

deleted at NameNode. (rangadi)

HADOOP-3537. Disallow adding a datanode to a network topology when its

network location is not resolved. (hairong)

HADOOP-3571. Fix bug in block removal used in lease recovery. (shv)

HADOOP-3645. MetricsTimeVaryingRate returns wrong value for

metric\_avg\_time. (Lohit Vijayarenu via hairong)

HADOOP-3521. Reverted the missing cast to float for sending Counters' values

to Hadoop metrics which was removed by HADOOP-544. (acmurthy)

HADOOP-3820. Fixes two problems in the gridmix-env - a syntax error, and a

wrong definition of USE\_REAL\_DATASET by default. (Arun Murthy via ddas)

HADOOP-3724. Fixes two problems related to storing and recovering lease

in the fsimage. (dhruba)

HADOOP-3827. Fixed compression of empty map-outputs. (acmurthy)

HADOOP-3865. Remove reference to FSNamesystem from metrics preventing

garbage collection. (Lohit Vijayarenu via cdouglas)

HADOOP-3884. Fix so that Eclipse plugin builds against recent

Eclipse releases. (cutting)

HADOOP-3837. Streaming jobs report progress status. (dhruba)

HADOOP-3897. Fix a NPE in secondary namenode. (Lohit Vijayarenu via

cdouglas)

HADOOP-3901. Fix bin/hadoop to correctly set classpath under cygwin.

(Tsz Wo (Nicholas) Sze via omalley)

HADOOP-3947. Fix a problem in tasktracker reinitialization.

(Amareshwari Sriramadasu via ddas)

Release 0.17.3 - Unreleased

IMPROVEMENTS

HADOOP-4164. Chinese translation of the documentation. (Xuebing Yan via

omalley)

BUG FIXES

HADOOP-4277. Checksum verification was mistakenly disabled for

LocalFileSystem. (Raghu Angadi)

HADOOP-4271. Checksum input stream can sometimes return invalid

data to the user. (Ning Li via rangadi)

HADOOP-4318. DistCp should use absolute paths for cleanup. (szetszwo)

HADOOP-4326. ChecksumFileSystem does not override create(...) correctly.

(szetszwo)

Release 0.17.2 - 2008-08-11

BUG FIXES

HADOOP-3678. Avoid spurious exceptions logged at DataNode when clients

read from DFS. (rangadi)

HADOOP-3707. NameNode keeps a count of number of blocks scheduled

to be written to a datanode and uses it to avoid allocating more

blocks than a datanode can hold. (rangadi)

HADOOP-3760. Fix a bug with HDFS file close() mistakenly introduced

by HADOOP-3681. (Lohit Vijayarenu via rangadi)

HADOOP-3681. DFSClient can get into an infinite loop while closing

a file if there are some errors. (Lohit Vijayarenu via rangadi)

HADOOP-3002. Hold off block removal while in safe mode. (shv)

HADOOP-3685. Unbalanced replication target. (hairong)

HADOOP-3758. Shutdown datanode on version mismatch instead of retrying

continuously, preventing excessive logging at the namenode.

(lohit vijayarenu via cdouglas)

HADOOP-3633. Correct exception handling in DataXceiveServer, and throttle

the number of xceiver threads in a data-node. (shv)

HADOOP-3370. Ensure that the TaskTracker.runningJobs data-structure is

correctly cleaned-up on task completion. (Zheng Shao via acmurthy)

HADOOP-3813. Fix task-output clean-up on HDFS to use the recursive

FileSystem.delete rather than the FileUtil.fullyDelete. (Amareshwari

Sri Ramadasu via acmurthy)

HADOOP-3859. Allow the maximum number of xceivers in the data node to

be configurable. (Johan Oskarsson via omalley)

HADOOP-3931. Fix corner case in the map-side sort that causes some values

to be counted as too large and cause pre-mature spills to disk. Some values

will also bypass the combiner incorrectly. (cdouglas via omalley)

Release 0.17.1 - 2008-06-23

INCOMPATIBLE CHANGES

HADOOP-3565. Fix the Java serialization, which is not enabled by

default, to clear the state of the serializer between objects.

(tomwhite via omalley)

IMPROVEMENTS

HADOOP-3522. Improve documentation on reduce pointing out that

input keys and values will be reused. (omalley)

HADOOP-3487. Balancer uses thread pools for managing its threads;

therefore provides better resource management. (hairong)

BUG FIXES

HADOOP-2159 Namenode stuck in safemode. The counter blockSafe should

not be decremented for invalid blocks. (hairong)

HADOOP-3472 MapFile.Reader getClosest() function returns incorrect results

when before is true (Todd Lipcon via Stack)

HADOOP-3442. Limit recursion depth on the stack for QuickSort to prevent

StackOverflowErrors. To avoid O(n\*n) cases, when partitioning depth exceeds

a multiple of log(n), change to HeapSort. (cdouglas)

HADOOP-3477. Fix build to not package contrib/\*/bin twice in

distributions. (Adam Heath via cutting)

HADOOP-3475. Fix MapTask to correctly size the accounting allocation of

io.sort.mb. (cdouglas)

HADOOP-3550. Fix the serialization data structures in MapTask where the

value lengths are incorrectly calculated. (cdouglas)

HADOOP-3526. Fix contrib/data\_join framework by cloning values retained

in the reduce. (Spyros Blanas via cdouglas)

HADOOP-1979. Speed up fsck by adding a buffered stream. (Lohit

Vijaya Renu via omalley)

Release 0.17.0 - 2008-05-18

INCOMPATIBLE CHANGES

HADOOP-2786. Move hbase out of hadoop core

HADOOP-2345. New HDFS transactions to support appending

to files. Disk layout version changed from -11 to -12. (dhruba)

HADOOP-2192. Error messages from "dfs mv" command improved.

(Mahadev Konar via dhruba)

HADOOP-1902. "dfs du" command without any arguments operates on the

current working directory. (Mahadev Konar via dhruba)

HADOOP-2873. Fixed bad disk format introduced by HADOOP-2345.

Disk layout version changed from -12 to -13. See changelist 630992

(dhruba)

HADOOP-1985. This addresses rack-awareness for Map tasks and for

HDFS in a uniform way. (ddas)

HADOOP-1986. Add support for a general serialization mechanism for

Map Reduce. (tomwhite)

HADOOP-771. FileSystem.delete() takes an explicit parameter that

specifies whether a recursive delete is intended.

(Mahadev Konar via dhruba)

HADOOP-2470. Remove getContentLength(String), open(String, long, long)

and isDir(String) from ClientProtocol. ClientProtocol version changed

from 26 to 27. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-2822. Remove deprecated code for classes InputFormatBase and

PhasedFileSystem. (Amareshwari Sriramadasu via enis)

HADOOP-2116. Changes the layout of the task execution directory.

(Amareshwari Sriramadasu via ddas)

HADOOP-2828. The following deprecated methods in Configuration.java

have been removed

getObject(String name)

setObject(String name, Object value)

get(String name, Object defaultValue)

set(String name, Object value)

Iterator entries()

(Amareshwari Sriramadasu via ddas)

HADOOP-2824. Removes one deprecated constructor from MiniMRCluster.

(Amareshwari Sriramadasu via ddas)

HADOOP-2823. Removes deprecated methods getColumn(), getLine() from

org.apache.hadoop.record.compiler.generated.SimpleCharStream.

(Amareshwari Sriramadasu via ddas)

HADOOP-3060. Removes one unused constructor argument from MiniMRCluster.

(Amareshwari Sriramadasu via ddas)

HADOOP-2854. Remove deprecated o.a.h.ipc.Server::getUserInfo().

(lohit vijayarenu via cdouglas)

HADOOP-2563. Remove deprecated FileSystem::listPaths.

(lohit vijayarenu via cdouglas)

HADOOP-2818. Remove deprecated methods in Counters.

(Amareshwari Sriramadasu via tomwhite)

HADOOP-2831. Remove deprecated o.a.h.dfs.INode::getAbsoluteName()

(lohit vijayarenu via cdouglas)

HADOOP-2839. Remove deprecated FileSystem::globPaths.

(lohit vijayarenu via cdouglas)

HADOOP-2634. Deprecate ClientProtocol::exists.

(lohit vijayarenu via cdouglas)

HADOOP-2410. Make EC2 cluster nodes more independent of each other.

Multiple concurrent EC2 clusters are now supported, and nodes may be

added to a cluster on the fly with new nodes starting in the same EC2

availability zone as the cluster. Ganglia monitoring and large

instance sizes have also been added. (Chris K Wensel via tomwhite)

HADOOP-2826. Deprecated FileSplit.getFile(), LineRecordReader.readLine().

(Amareshwari Sriramadasu via ddas)

HADOOP-3239. getFileInfo() returns null for non-existing files instead

of throwing FileNotFoundException. (Lohit Vijayarenu via shv)

HADOOP-3266. Removed HOD changes from CHANGES.txt, as they are now inside

src/contrib/hod (Hemanth Yamijala via ddas)

HADOOP-3280. Separate the configuration of the virtual memory size

(mapred.child.ulimit) from the jvm heap size, so that 64 bit

streaming applications are supported even when running with 32 bit

jvms. (acmurthy via omalley)

NEW FEATURES

HADOOP-1398. Add HBase in-memory block cache. (tomwhite)

HADOOP-2178. Job History on DFS. (Amareshwari Sri Ramadasu via ddas)

HADOOP-2063. A new parameter to dfs -get command to fetch a file

even if it is corrupted. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2219. A new command "df -count" that counts the number of

files and directories. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2906. Add an OutputFormat capable of using keys, values, and

config params to map records to different output files.

(Runping Qi via cdouglas)

HADOOP-2346. Utilities to support timeout while writing to sockets.

DFSClient and DataNode sockets have 10min write timeout. (rangadi)

HADOOP-2951. Add a contrib module that provides a utility to

build or update Lucene indexes using Map/Reduce. (Ning Li via cutting)

HADOOP-1622. Allow multiple jar files for map reduce.

(Mahadev Konar via dhruba)

HADOOP-2055. Allows users to set PathFilter on the FileInputFormat.

(Alejandro Abdelnur via ddas)

HADOOP-2551. More environment variables like HADOOP\_NAMENODE\_OPTS

for better control of HADOOP\_OPTS for each component. (rangadi)

HADOOP-3001. Add job counters that measure the number of bytes

read and written to HDFS, S3, KFS, and local file systems. (omalley)

HADOOP-3048. A new Interface and a default implementation to convert

and restore serializations of objects to/from strings. (enis)

IMPROVEMENTS

HADOOP-2655. Copy on write for data and metadata files in the

presence of snapshots. Needed for supporting appends to HDFS

files. (dhruba)

HADOOP-1967. When a Path specifies the same scheme as the default

FileSystem but no authority, the default FileSystem's authority is

used. Also add warnings for old-format FileSystem names, accessor

methods for fs.default.name, and check for null authority in HDFS.

(cutting)

HADOOP-2895. Let the profiling string be configurable.

(Martin Traverso via cdouglas)

HADOOP-910. Enables Reduces to do merges for the on-disk map output files

in parallel with their copying. (Amar Kamat via ddas)

HADOOP-730. Use rename rather than copy for local renames. (cdouglas)

HADOOP-2810. Updated the Hadoop Core logo. (nigel)

HADOOP-2057. Streaming should optionally treat a non-zero exit status

of a child process as a failed task. (Rick Cox via tomwhite)

HADOOP-2765. Enables specifying ulimits for streaming/pipes tasks (ddas)

HADOOP-2888. Make gridmix scripts more readily configurable and amenable

to automated execution. (Mukund Madhugiri via cdouglas)

HADOOP-2908. A document that describes the DFS Shell command.

(Mahadev Konar via dhruba)

HADOOP-2981. Update README.txt to reflect the upcoming use of

cryptography. (omalley)

HADOOP-2804. Add support to publish CHANGES.txt as HTML when running

the Ant 'docs' target. (nigel)

HADOOP-2559. Change DFS block placement to allocate the first replica

locally, the second off-rack, and the third intra-rack from the

second. (lohit vijayarenu via cdouglas)

HADOOP-2939. Make the automated patch testing process an executable

Ant target, test-patch. (nigel)

HADOOP-2239. Add HsftpFileSystem to permit transferring files over ssl.

(cdouglas)

HADOOP-2886. Track individual RPC metrics.

(girish vaitheeswaran via dhruba)

HADOOP-2373. Improvement in safe-mode reporting. (shv)

HADOOP-3091. Modify FsShell command -put to accept multiple sources.

(Lohit Vijaya Renu via cdouglas)

HADOOP-3092. Show counter values from job -status command.

(Tom White via ddas)

HADOOP-1228. Ant task to generate Eclipse project files. (tomwhite)

HADOOP-3093. Adds Configuration.getStrings(name, default-value) and

the corresponding setStrings. (Amareshwari Sriramadasu via ddas)

HADOOP-3106. Adds documentation in forrest for debugging.

(Amareshwari Sriramadasu via ddas)

HADOOP-3099. Add an option to distcp to preserve user, group, and

permission information. (Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-2841. Unwrap AccessControlException and FileNotFoundException

from RemoteException for DFSClient. (shv)

HADOOP-3152. Make index interval configuable when using

MapFileOutputFormat for map-reduce job. (Rong-En Fan via cutting)

HADOOP-3143. Decrease number of slaves from 4 to 3 in TestMiniMRDFSSort,

as Hudson generates false negatives under the current load.

(Nigel Daley via cdouglas)

HADOOP-3174. Illustrative example for MultipleFileInputFormat. (Enis

Soztutar via acmurthy)

HADOOP-2993. Clarify the usage of JAVA\_HOME in the Quick Start guide.

(acmurthy via nigel)

HADOOP-3124. Make DataNode socket write timeout configurable. (rangadi)

OPTIMIZATIONS

HADOOP-2790. Fixed inefficient method hasSpeculativeTask by removing

repetitive calls to get the current time and late checking to see if

we want speculation on at all. (omalley)

HADOOP-2758. Reduce buffer copies in DataNode when data is read from

HDFS, without negatively affecting read throughput. (rangadi)

HADOOP-2399. Input key and value to combiner and reducer is reused.

(Owen O'Malley via ddas).

HADOOP-2423. Code optimization in FSNamesystem.mkdirs.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2606. ReplicationMonitor selects data-nodes to replicate directly

from needed replication blocks instead of looking up for the blocks for

each live data-node. (shv)

HADOOP-2148. Eliminate redundant data-node blockMap lookups. (shv)

HADOOP-2027. Return the number of bytes in each block in a file

via a single rpc to the namenode to speed up job planning.

(Lohit Vijaya Renu via omalley)

HADOOP-2902. Replace uses of "fs.default.name" with calls to the

accessor methods added in HADOOP-1967. (cutting)

HADOOP-2119. Optimize scheduling of jobs with large numbers of

tasks by replacing static arrays with lists of runnable tasks.

(Amar Kamat via omalley)

HADOOP-2919. Reduce the number of memory copies done during the

map output sorting. Also adds two config variables:

io.sort.spill.percent - the percentages of io.sort.mb that should

cause a spill (default 80%)

io.sort.record.percent - the percent of io.sort.mb that should

hold key/value indexes (default 5%)

(cdouglas via omalley)

HADOOP-3140. Doesn't add a task in the commit queue if the task hadn't

generated any output. (Amar Kamat via ddas)

HADOOP-3168. Reduce the amount of logging in streaming to an

exponentially increasing number of records (up to 10,000

records/log). (Zheng Shao via omalley)

BUG FIXES

HADOOP-2195. '-mkdir' behaviour is now closer to Linux shell in case of

errors. (Mahadev Konar via rangadi)

HADOOP-2190. bring behaviour '-ls' and '-du' closer to Linux shell

commands in case of errors. (Mahadev Konar via rangadi)

HADOOP-2193. 'fs -rm' and 'fs -rmr' show error message when the target

file does not exist. (Mahadev Konar via rangadi)

HADOOP-2738 Text is not subclassable because set(Text) and compareTo(Object)

access the other instance's private members directly. (jimk)

HADOOP-2779. Remove the references to HBase in the build.xml. (omalley)

HADOOP-2194. dfs cat on a non-existent file throws FileNotFoundException.

(Mahadev Konar via dhruba)

HADOOP-2767. Fix for NetworkTopology erroneously skipping the last leaf

node on a rack. (Hairong Kuang and Mark Butler via dhruba)

HADOOP-1593. FsShell works with paths in non-default FileSystem.

(Mahadev Konar via dhruba)

HADOOP-2191. du and dus command on non-existent directory gives

appropriate error message. (Mahadev Konar via dhruba)

HADOOP-2832. Remove tabs from code of DFSClient for better

indentation. (dhruba)

HADOOP-2844. distcp closes file handles for sequence files.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2727. Fix links in Web UI of the hadoop daemons and some docs

(Amareshwari Sri Ramadasu via ddas)

HADOOP-2871. Fixes a problem to do with file: URI in the JobHistory init.

(Amareshwari Sri Ramadasu via ddas)

HADOOP-2800. Deprecate SetFile.Writer constructor not the whole class.

(Johan Oskarsson via tomwhite)

HADOOP-2891. DFSClient.close() closes all open files. (dhruba)

HADOOP-2845. Fix dfsadmin disk utilization report on Solaris.

(Martin Traverso via tomwhite)

HADOOP-2912. MiniDFSCluster restart should wait for namenode to exit

safemode. This was causing TestFsck to fail. (Mahadev Konar via dhruba)

HADOOP-2820. The following classes in streaming are removed :

StreamLineRecordReader StreamOutputFormat StreamSequenceRecordReader.

(Amareshwari Sri Ramadasu via ddas)

HADOOP-2819. The following methods in JobConf are removed:

getInputKeyClass() setInputKeyClass getInputValueClass()

setInputValueClass(Class theClass) setSpeculativeExecution

getSpeculativeExecution() (Amareshwari Sri Ramadasu via ddas)

HADOOP-2817. Removes deprecated mapred.tasktracker.tasks.maximum and

ClusterStatus.getMaxTasks(). (Amareshwari Sri Ramadasu via ddas)

HADOOP-2821. Removes deprecated ShellUtil and ToolBase classes from

the util package. (Amareshwari Sri Ramadasu via ddas)

HADOOP-2934. The namenode was encountreing a NPE while loading

leases from the fsimage. Fixed. (dhruba)

HADOOP-2938. Some fs commands did not glob paths.

(Tsz Wo (Nicholas), SZE via rangadi)

HADOOP-2943. Compression of intermediate map output causes failures

in the merge. (cdouglas)

HADOOP-2870. DataNode and NameNode closes all connections while

shutting down. (Hairong Kuang via dhruba)

HADOOP-2973. Fix TestLocalDFS for Windows platform.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2971. select multiple times if it returns early in

SocketIOWithTimeout. (rangadi)

HADOOP-2955. Fix TestCrcCorruption test failures caused by HADOOP-2758

(rangadi)

HADOOP-2657. A flush call on the DFSOutputStream flushes the last

partial CRC chunk too. (dhruba)

HADOOP-2974. IPC unit tests used "0.0.0.0" to connect to server, which

is not always supported. (rangadi)

HADOOP-2996. Fixes uses of StringBuffer in StreamUtils class.

(Dave Brosius via ddas)

HADOOP-2995. Fixes StreamBaseRecordReader's getProgress to return a

floating point number. (Dave Brosius via ddas)

HADOOP-2972. Fix for a NPE in FSDataset.invalidate.

(Mahadev Konar via dhruba)

HADOOP-2994. Code cleanup for DFSClient: remove redundant

conversions from string to string. (Dave Brosius via dhruba)

HADOOP-3009. TestFileCreation sometimes fails because restarting

minidfscluster sometimes creates datanodes with ports that are

different from their original instance. (dhruba)

HADOOP-2992. Distributed Upgrade framework works correctly with

more than one upgrade object. (Konstantin Shvachko via dhruba)

HADOOP-2679. Fix a typo in libhdfs. (Jason via dhruba)

HADOOP-2976. When a lease expires, the Namenode ensures that

blocks of the file are adequately replicated. (dhruba)

HADOOP-2901. Fixes the creation of info servers in the JobClient

and JobTracker. Removes the creation from JobClient and removes

additional info server from the JobTracker. Also adds the command

line utility to view the history files (HADOOP-2896), and fixes

bugs in JSPs to do with analysis - HADOOP-2742, HADOOP-2792.

(Amareshwari Sri Ramadasu via ddas)

HADOOP-2890. If different datanodes report the same block but

with different sizes to the namenode, the namenode picks the

replica(s) with the largest size as the only valid replica(s). (dhruba)

HADOOP-2825. Deprecated MapOutputLocation.getFile() is removed.

(Amareshwari Sri Ramadasu via ddas)

HADOOP-2806. Fixes a streaming document.

(Amareshwari Sriramadasu via ddas)

HADOOP-3008. SocketIOWithTimeout throws InterruptedIOException if the

thread is interrupted while it is waiting. (rangadi)

HADOOP-3006. Fix wrong packet size reported by DataNode when a block

is being replicated. (rangadi)

HADOOP-3029. Datanode prints log message "firstbadlink" only if

it detects a bad connection to another datanode in the pipeline. (dhruba)

HADOOP-3030. Release reserved space for file in InMemoryFileSystem if

checksum reservation fails. (Devaraj Das via cdouglas)

HADOOP-3036. Fix findbugs warnings in UpgradeUtilities. (Konstantin

Shvachko via cdouglas)

HADOOP-3025. ChecksumFileSystem supports the delete method with

the recursive flag. (Mahadev Konar via dhruba)

HADOOP-3012. dfs -mv file to user home directory throws exception if

the user home directory does not exist. (Mahadev Konar via dhruba)

HADOOP-3066. Should not require superuser privilege to query if hdfs is in

safe mode (jimk)

HADOOP-3040. If the input line starts with the separator char, the key

is set as empty. (Amareshwari Sriramadasu via ddas)

HADOOP-3080. Removes flush calls from JobHistory.

(Amareshwari Sriramadasu via ddas)

HADOOP-3086. Adds the testcase missed during commit of hadoop-3040.

(Amareshwari Sriramadasu via ddas)

HADOOP-3046. Fix the raw comparators for Text and BytesWritables

to use the provided length rather than recompute it. (omalley)

HADOOP-3094. Fix BytesWritable.toString to avoid extending the sign bit

(Owen O'Malley via cdouglas)

HADOOP-3067. DFSInputStream's position read does not close the sockets.

(rangadi)

HADOOP-3073. close() on SocketInputStream or SocketOutputStream should

close the underlying channel. (rangadi)

HADOOP-3087. Fixes a problem to do with refreshing of loadHistory.jsp.

(Amareshwari Sriramadasu via ddas)

HADOOP-3065. Better logging message if the rack location of a datanode

cannot be determined. (Devaraj Das via dhruba)

HADOOP-3064. Commas in a file path should not be treated as delimiters.

(Hairong Kuang via shv)

HADOOP-2997. Adds test for non-writable serialier. Also fixes a problem

introduced by HADOOP-2399. (Tom White via ddas)

HADOOP-3114. Fix TestDFSShell on Windows. (Lohit Vijaya Renu via cdouglas)

HADOOP-3118. Fix Namenode NPE while loading fsimage after a cluster

upgrade from older disk format. (dhruba)

HADOOP-3161. Fix FIleUtil.HardLink.getLinkCount on Mac OS. (nigel

via omalley)

HADOOP-2927. Fix TestDU to acurately calculate the expected file size.

(shv via nigel)

HADOOP-3123. Fix the native library build scripts to work on Solaris.

(tomwhite via omalley)

HADOOP-3089. Streaming should accept stderr from task before

first key arrives. (Rick Cox via tomwhite)

HADOOP-3146. A DFSOutputStream.flush method is renamed as

DFSOutputStream.fsync. (dhruba)

HADOOP-3165. -put/-copyFromLocal did not treat input file "-" as stdin.

(Lohit Vijayarenu via rangadi)

HADOOP-3041. Deprecate JobConf.setOutputPath and JobConf.getOutputPath.

Deprecate OutputFormatBase. Add FileOutputFormat. Existing output formats

extending OutputFormatBase, now extend FileOutputFormat. Add the following

APIs in FileOutputFormat: setOutputPath, getOutputPath, getWorkOutputPath.

(Amareshwari Sriramadasu via nigel)

HADOOP-3083. The fsimage does not store leases. This would have to be

reworked in the next release to support appends. (dhruba)

HADOOP-3166. Fix an ArrayIndexOutOfBoundsException in the spill thread

and make exception handling more promiscuous to catch this condition.

(cdouglas)

HADOOP-3050. DataNode sends one and only one block report after

it registers with the namenode. (Hairong Kuang)

HADOOP-3044. NNBench sets the right configuration for the mapper.

(Hairong Kuang)

HADOOP-3178. Fix GridMix scripts for small and medium jobs

to handle input paths differently. (Mukund Madhugiri via nigel)

HADOOP-1911. Fix an infinite loop in DFSClient when all replicas of a

block are bad (cdouglas)

HADOOP-3157. Fix path handling in DistributedCache and TestMiniMRLocalFS.

(Doug Cutting via rangadi)

HADOOP-3018. Fix the eclipse plug-in contrib wrt removed deprecated

methods (taton)

HADOOP-3183. Fix TestJobShell to use 'ls' instead of java.io.File::exists

since cygwin symlinks are unsupported.

(Mahadev konar via cdouglas)

HADOOP-3175. Fix FsShell.CommandFormat to handle "-" in arguments.

(Edward J. Yoon via rangadi)

HADOOP-3220. Safemode message corrected. (shv)

HADOOP-3208. Fix WritableDeserializer to set the Configuration on

deserialized Writables. (Enis Soztutar via cdouglas)

HADOOP-3224. 'dfs -du /dir' does not return correct size.

(Lohit Vjayarenu via rangadi)

HADOOP-3223. Fix typo in help message for -chmod. (rangadi)

HADOOP-1373. checkPath() should ignore case when it compares authoriy.

(Edward J. Yoon via rangadi)

HADOOP-3204. Fixes a problem to do with ReduceTask's LocalFSMerger not

catching Throwable. (Amar Ramesh Kamat via ddas)

HADOOP-3229. Report progress when collecting records from the mapper and

the combiner. (Doug Cutting via cdouglas)

HADOOP-3225. Unwrapping methods of RemoteException should initialize

detailedMassage field. (Mahadev Konar, shv, cdouglas)

HADOOP-3247. Fix gridmix scripts to use the correct globbing syntax and

change maxentToSameCluster to run the correct number of jobs.

(Runping Qi via cdouglas)

HADOOP-3242. Fix the RecordReader of SequenceFileAsBinaryInputFormat to

correctly read from the start of the split and not the beginning of the

file. (cdouglas via acmurthy)

HADOOP-3256. Encodes the job name used in the filename for history files.

(Arun Murthy via ddas)

HADOOP-3162. Ensure that comma-separated input paths are treated correctly

as multiple input paths. (Amareshwari Sri Ramadasu via acmurthy)

HADOOP-3263. Ensure that the job-history log file always follows the

pattern of hostname\_timestamp\_jobid\_username\_jobname even if username

and/or jobname are not specfied. This helps to avoid wrong assumptions

made about the job-history log filename in jobhistory.jsp. (acmurthy)

HADOOP-3251. Fixes getFilesystemName in JobTracker and LocalJobRunner to

use FileSystem.getUri instead of FileSystem.getName. (Arun Murthy via ddas)

HADOOP-3237. Fixes TestDFSShell.testErrOutPut on Windows platform.

(Mahadev Konar via ddas)

HADOOP-3279. TaskTracker checks for SUCCEEDED task status in addition to

COMMIT\_PENDING status when it fails maps due to lost map.

(Devaraj Das)

HADOOP-3286. Prevent collisions in gridmix output dirs by increasing the

granularity of the timestamp. (Runping Qi via cdouglas)

HADOOP-3285. Fix input split locality when the splits align to

fs blocks. (omalley)

HADOOP-3372. Fix heap management in streaming tests. (Arun Murthy via

cdouglas)

HADOOP-3031. Fix javac warnings in test classes. (cdouglas)

HADOOP-3382. Fix memory leak when files are not cleanly closed (rangadi)

HADOOP-3322. Fix to push MetricsRecord for rpc metrics. (Eric Yang via

mukund)

Release 0.16.4 - 2008-05-05

BUG FIXES

HADOOP-3138. DFS mkdirs() should not throw an exception if the directory

already exists. (rangadi via mukund)

HADOOP-3294. Fix distcp to check the destination length and retry the copy

if it doesn't match the src length. (Tsz Wo (Nicholas), SZE via mukund)

HADOOP-3186. Fix incorrect permission checkding for mv and renameTo

in HDFS. (Tsz Wo (Nicholas), SZE via mukund)

Release 0.16.3 - 2008-04-16

BUG FIXES

HADOOP-3010. Fix ConcurrentModificationException in ipc.Server.Responder.

(rangadi)

HADOOP-3154. Catch all Throwables from the SpillThread in MapTask, rather

than IOExceptions only. (ddas via cdouglas)

HADOOP-3159. Avoid file system cache being overwritten whenever

configuration is modified. (Tsz Wo (Nicholas), SZE via hairong)

HADOOP-3139. Remove the consistency check for the FileSystem cache in

closeAll() that causes spurious warnings and a deadlock.

(Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-3195. Fix TestFileSystem to be deterministic.

(Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-3069. Primary name-node should not truncate image when transferring

it from the secondary. (shv)

HADOOP-3182. Change permissions of the job-submission directory to 777

from 733 to ensure sharing of HOD clusters works correctly. (Tsz Wo

(Nicholas), Sze and Amareshwari Sri Ramadasu via acmurthy)

Release 0.16.2 - 2008-04-02

BUG FIXES

HADOOP-3011. Prohibit distcp from overwriting directories on the

destination filesystem with files. (cdouglas)

HADOOP-3033. The BlockReceiver thread in the datanode writes data to

the block file, changes file position (if needed) and flushes all by

itself. The PacketResponder thread does not flush block file. (dhruba)

HADOOP-2978. Fixes the JobHistory log format for counters.

(Runping Qi via ddas)

HADOOP-2985. Fixes LocalJobRunner to tolerate null job output path.

Also makes the \_temporary a constant in MRConstants.java.

(Amareshwari Sriramadasu via ddas)

HADOOP-3003. FileSystem cache key is updated after a

FileSystem object is created. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-3042. Updates the Javadoc in JobConf.getOutputPath to reflect

the actual temporary path. (Amareshwari Sriramadasu via ddas)

HADOOP-3007. Tolerate mirror failures while DataNode is replicating

blocks as it used to before. (rangadi)

HADOOP-2944. Fixes a "Run on Hadoop" wizard NPE when creating a

Location from the wizard. (taton)

HADOOP-3049. Fixes a problem in MultiThreadedMapRunner to do with

catching RuntimeExceptions. (Alejandro Abdelnur via ddas)

HADOOP-3039. Fixes a problem to do with exceptions in tasks not

killing jobs. (Amareshwari Sriramadasu via ddas)

HADOOP-3027. Fixes a problem to do with adding a shutdown hook in

FileSystem. (Amareshwari Sriramadasu via ddas)

HADOOP-3056. Fix distcp when the target is an empty directory by

making sure the directory is created first. (cdouglas and acmurthy

via omalley)

HADOOP-3070. Protect the trash emptier thread from null pointer

exceptions. (Koji Noguchi via omalley)

HADOOP-3084. Fix HftpFileSystem to work for zero-lenghth files.

(cdouglas)

HADOOP-3107. Fix NPE when fsck invokes getListings. (dhruba)

HADOOP-3104. Limit MultithreadedMapRunner to have a fixed length queue

between the RecordReader and the map threads. (Alejandro Abdelnur via

omalley)

HADOOP-2833. Do not use "Dr. Who" as the default user in JobClient.

A valid user name is required. (Tsz Wo (Nicholas), SZE via rangadi)

HADOOP-3128. Throw RemoteException in setPermissions and setOwner of

DistributedFileSystem. (shv via nigel)

Release 0.16.1 - 2008-03-13

INCOMPATIBLE CHANGES

HADOOP-2869. Deprecate SequenceFile.setCompressionType in favor of

SequenceFile.createWriter, SequenceFileOutputFormat.setCompressionType,

and JobConf.setMapOutputCompressionType. (Arun C Murthy via cdouglas)

Configuration changes to hadoop-default.xml:

deprecated io.seqfile.compression.type

IMPROVEMENTS

HADOOP-2371. User guide for file permissions in HDFS.

(Robert Chansler via rangadi)

HADOOP-3098. Allow more characters in user and group names while

using -chown and -chgrp commands. (rangadi)

BUG FIXES

HADOOP-2789. Race condition in IPC Server Responder that could close

connections early. (Raghu Angadi)

HADOOP-2785. minor. Fix a typo in Datanode block verification

(Raghu Angadi)

HADOOP-2788. minor. Fix help message for chgrp shell command (Raghu Angadi).

HADOOP-1188. fstime file is updated when a storage directory containing

namespace image becomes inaccessible. (shv)

HADOOP-2787. An application can set a configuration variable named

dfs.umask to set the umask that is used by DFS.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2780. The default socket buffer size for DataNodes is 128K.

(dhruba)

HADOOP-2716. Superuser privileges for the Balancer.

(Tsz Wo (Nicholas), SZE via shv)

HADOOP-2754. Filter out .crc files from local file system listing.

(Hairong Kuang via shv)

HADOOP-2733. Fix compiler warnings in test code.

(Tsz Wo (Nicholas), SZE via cdouglas)

HADOOP-2725. Modify distcp to avoid leaving partially copied files at

the destination after encountering an error. (Tsz Wo (Nicholas), SZE

via cdouglas)

HADOOP-2391. Cleanup job output directory before declaring a job as

SUCCESSFUL. (Amareshwari Sri Ramadasu via ddas)

HADOOP-2808. Minor fix to FileUtil::copy to mind the overwrite

formal. (cdouglas)

HADOOP-2683. Moving UGI out of the RPC Server.

(Tsz Wo (Nicholas), SZE via shv)

HADOOP-2814. Fix for NPE in datanode in unit test TestDataTransferProtocol.

(Raghu Angadi via dhruba)

HADOOP-2811. Dump of counters in job history does not add comma between

groups. (runping via omalley)

HADOOP-2735. Enables setting TMPDIR for tasks.

(Amareshwari Sri Ramadasu via ddas)

HADOOP-2843. Fix protections on map-side join classes to enable derivation.

(cdouglas via omalley)

HADOOP-2840. Fix gridmix scripts to correctly invoke the java sort through

the proper jar. (Mukund Madhugiri via cdouglas)

HADOOP-2769. TestNNThroughputBnechmark should not use a fixed port for

the namenode http port. (omalley)

HADOOP-2852. Update gridmix benchmark to avoid an artifically long tail.

(cdouglas)

HADOOP-2894. Fix a problem to do with tasktrackers failing to connect to

JobTracker upon reinitialization. (Owen O'Malley via ddas).

HADOOP-2903. Fix exception generated by Metrics while using pushMetric().

(girish vaitheeswaran via dhruba)

HADOOP-2904. Fix to RPC metrics to log the correct host name.

(girish vaitheeswaran via dhruba)

HADOOP-2918. Improve error logging so that dfs writes failure with

"No lease on file" can be diagnosed. (dhruba)

HADOOP-2923. Add SequenceFileAsBinaryInputFormat, which was

missed in the commit for HADOOP-2603. (cdouglas via omalley)

HADOOP-2931. IOException thrown by DFSOutputStream had wrong stack

trace in some cases. (Michael Bieniosek via rangadi)

HADOOP-2883. Write failures and data corruptions on HDFS files.

The write timeout is back to what it was on 0.15 release. Also, the

datnodes flushes the block file buffered output stream before

sending a positive ack for the packet back to the client. (dhruba)

HADOOP-2756. NPE in DFSClient while closing DFSOutputStreams

under load. (rangadi)

HADOOP-2958. Fixed FileBench which broke due to HADOOP-2391 which performs

a check for existence of the output directory and a trivial bug in

GenericMRLoadGenerator where min/max word lenghts were identical since

they were looking at the same config variables (Chris Douglas via

acmurthy)

HADOOP-2915. Fixed FileSystem.CACHE so that a username is included

in the cache key. (Tsz Wo (Nicholas), SZE via nigel)

HADOOP-2813. TestDU unit test uses its own directory to run its

sequence of tests. (Mahadev Konar via dhruba)

Release 0.16.0 - 2008-02-07

INCOMPATIBLE CHANGES

HADOOP-1245. Use the mapred.tasktracker.tasks.maximum value

configured on each tasktracker when allocating tasks, instead of

the value configured on the jobtracker. InterTrackerProtocol

version changed from 5 to 6. (Michael Bieniosek via omalley)

HADOOP-1843. Removed code from Configuration and JobConf deprecated by

HADOOP-785 and a minor fix to Configuration.toString. Specifically the

important change is that mapred-default.xml is no longer supported and

Configuration no longer supports the notion of default/final resources.

(acmurthy)

HADOOP-1302. Remove deprecated abacus code from the contrib directory.

This also fixes a configuration bug in AggregateWordCount, so that the

job now works. (enis)

HADOOP-2288. Enhance FileSystem API to support access control.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2184. RPC Support for user permissions and authentication.

(Raghu Angadi via dhruba)

HADOOP-2185. RPC Server uses any available port if the specified

port is zero. Otherwise it uses the specified port. Also combines

the configuration attributes for the servers' bind address and

port from "x.x.x.x" and "y" to "x.x.x.x:y".

Deprecated configuration variables:

dfs.info.bindAddress

dfs.info.port

dfs.datanode.bindAddress

dfs.datanode.port

dfs.datanode.info.bindAdress

dfs.datanode.info.port

dfs.secondary.info.bindAddress

dfs.secondary.info.port

mapred.job.tracker.info.bindAddress

mapred.job.tracker.info.port

mapred.task.tracker.report.bindAddress

tasktracker.http.bindAddress

tasktracker.http.port

New configuration variables (post HADOOP-2404):

dfs.secondary.http.address

dfs.datanode.address

dfs.datanode.http.address

dfs.http.address

mapred.job.tracker.http.address

mapred.task.tracker.report.address

mapred.task.tracker.http.address

(Konstantin Shvachko via dhruba)

HADOOP-2401. Only the current leaseholder can abandon a block for

a HDFS file. ClientProtocol version changed from 20 to 21.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2381. Support permission information in FileStatus. Client

Protocol version changed from 21 to 22. (Raghu Angadi via dhruba)

HADOOP-2110. Block report processing creates fewer transient objects.

Datanode Protocol version changed from 10 to 11.

(Sanjay Radia via dhruba)

HADOOP-2567. Add FileSystem#getHomeDirectory(), which returns the

user's home directory in a FileSystem as a fully-qualified path.

FileSystem#getWorkingDirectory() is also changed to return a

fully-qualified path, which can break applications that attempt

to, e.g., pass LocalFileSystem#getWorkingDir().toString() directly

to java.io methods that accept file names. (cutting)

HADOOP-2514. Change trash feature to maintain a per-user trash

directory, named ".Trash" in the user's home directory. The

"fs.trash.root" parameter is no longer used. Full source paths

are also no longer reproduced within the trash.

HADOOP-2012. Periodic data verification on Datanodes.

(Raghu Angadi via dhruba)

HADOOP-1707. The DFSClient does not use a local disk file to cache

writes to a HDFS file. Changed Data Transfer Version from 7 to 8.

(dhruba)

HADOOP-2652. Fix permission issues for HftpFileSystem. This is an

incompatible change since distcp may not be able to copy files

from cluster A (compiled with this patch) to cluster B (compiled

with previous versions). (Tsz Wo (Nicholas), SZE via dhruba)

NEW FEATURES

HADOOP-1857. Ability to run a script when a task fails to capture stack

traces. (Amareshwari Sri Ramadasu via ddas)

HADOOP-2299. Defination of a login interface. A simple implementation for

Unix users and groups. (Hairong Kuang via dhruba)

HADOOP-1652. A utility to balance data among datanodes in a HDFS cluster.

(Hairong Kuang via dhruba)

HADOOP-2085. A library to support map-side joins of consistently

partitioned and sorted data sets. (Chris Douglas via omalley)

HADOOP-2336. Shell commands to modify file permissions. (rangadi)

HADOOP-1298. Implement file permissions for HDFS.

(Tsz Wo (Nicholas) & taton via cutting)

HADOOP-2447. HDFS can be configured to limit the total number of

objects (inodes and blocks) in the file system. (dhruba)

HADOOP-2487. Added an option to get statuses for all submitted/run jobs.

This information can be used to develop tools for analysing jobs.

(Amareshwari Sri Ramadasu via acmurthy)

HADOOP-1873. Implement user permissions for Map/Reduce framework.

(Hairong Kuang via shv)

HADOOP-2532. Add to MapFile a getClosest method that returns the key

that comes just before if the key is not present. (stack via tomwhite)

HADOOP-1883. Add versioning to Record I/O. (Vivek Ratan via ddas)

HADOOP-2603. Add SeqeunceFileAsBinaryInputFormat, which reads

sequence files as BytesWritable/BytesWritable regardless of the

key and value types used to write the file. (cdouglas via omalley)

HADOOP-2367. Add ability to profile a subset of map/reduce tasks and fetch

the result to the local filesystem of the submitting application. Also

includes a general IntegerRanges extension to Configuration for setting

positive, ranged parameters. (Owen O'Malley via cdouglas)

IMPROVEMENTS

HADOOP-2045. Change committer list on website to a table, so that

folks can list their organization, timezone, etc. (cutting)

HADOOP-2058. Facilitate creating new datanodes dynamically in

MiniDFSCluster. (Hairong Kuang via dhruba)

HADOOP-1855. fsck verifies block placement policies and reports

violations. (Konstantin Shvachko via dhruba)

HADOOP-1604. An system administrator can finalize namenode upgrades

without running the cluster. (Konstantin Shvachko via dhruba)

HADOOP-1839. Link-ify the Pending/Running/Complete/Killed grid in

jobdetails.jsp to help quickly narrow down and see categorized TIPs'

details via jobtasks.jsp. (Amar Kamat via acmurthy)

HADOOP-1210. Log counters in job history. (Owen O'Malley via ddas)

HADOOP-1912. Datanode has two new commands COPY and REPLACE. These are

needed for supporting data rebalance. (Hairong Kuang via dhruba)

HADOOP-2086. This patch adds the ability to add dependencies to a job

(run via JobControl) after construction. (Adrian Woodhead via ddas)

HADOOP-1185. Support changing the logging level of a server without

restarting the server. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2134. Remove developer-centric requirements from overview.html and

keep it end-user focussed, specifically sections related to subversion and

building Hadoop. (Jim Kellerman via acmurthy)

HADOOP-1989. Support simulated DataNodes. This helps creating large virtual

clusters for testing purposes. (Sanjay Radia via dhruba)

HADOOP-1274. Support different number of mappers and reducers per

TaskTracker to allow administrators to better configure and utilize

heterogenous clusters.

Configuration changes to hadoop-default.xml:

add mapred.tasktracker.map.tasks.maximum (default value of 2)

add mapred.tasktracker.reduce.tasks.maximum (default value of 2)

remove mapred.tasktracker.tasks.maximum (deprecated for 0.16.0)

(Amareshwari Sri Ramadasu via acmurthy)

HADOOP-2104. Adds a description to the ant targets. This makes the

output of "ant -projecthelp" sensible. (Chris Douglas via ddas)

HADOOP-2127. Added a pipes sort example to benchmark trivial pipes

application versus trivial java application. (omalley via acmurthy)

HADOOP-2113. A new shell command "dfs -text" to view the contents of

a gziped or SequenceFile. (Chris Douglas via dhruba)

HADOOP-2207. Add a "package" target for contrib modules that

permits each to determine what files are copied into release

builds. (stack via cutting)

HADOOP-1984. Makes the backoff for failed fetches exponential.

Earlier, it was a random backoff from an interval.

(Amar Kamat via ddas)

HADOOP-1327. Include website documentation for streaming. (Rob Weltman

via omalley)

HADOOP-2000. Rewrite NNBench to measure namenode performance accurately.

It now uses the map-reduce framework for load generation.

(Mukund Madhugiri via dhruba)

HADOOP-2248. Speeds up the framework w.r.t Counters. Also has API

updates to the Counters part. (Owen O'Malley via ddas)

HADOOP-2326. The initial block report at Datanode startup time has

a random backoff period. (Sanjay Radia via dhruba)

HADOOP-2432. HDFS includes the name of the file while throwing

"File does not exist" exception. (Jim Kellerman via dhruba)

HADOOP-2457. Added a 'forrest.home' property to the 'docs' target in

build.xml. (acmurthy)

HADOOP-2149. A new benchmark for three name-node operation: file create,

open, and block report, to evaluate the name-node performance

for optimizations or new features. (Konstantin Shvachko via shv)

HADOOP-2466. Change FileInputFormat.computeSplitSize to a protected

non-static method to allow sub-classes to provide alternate

implementations. (Alejandro Abdelnur via acmurthy)

HADOOP-2425. Change TextOutputFormat to handle Text specifically for better

performance. Make NullWritable implement Comparable. Make TextOutputFormat

treat NullWritable like null. (omalley)

HADOOP-1719. Improves the utilization of shuffle copier threads.

(Amar Kamat via ddas)

HADOOP-2390. Added documentation for user-controls for intermediate

map-outputs & final job-outputs and native-hadoop libraries. (acmurthy)

HADOOP-1660. Add the cwd of the map/reduce task to the java.library.path

of the child-jvm to support loading of native libraries distributed via

the DistributedCache. (acmurthy)

HADOOP-2285. Speeds up TextInputFormat. Also includes updates to the

Text API. (Owen O'Malley via cdouglas)

HADOOP-2233. Adds a generic load generator for modeling MR jobs. (cdouglas)

HADOOP-2369. Adds a set of scripts for simulating a mix of user map/reduce

workloads. (Runping Qi via cdouglas)

HADOOP-2547. Removes use of a 'magic number' in build.xml.

(Hrishikesh via nigel)

HADOOP-2268. Fix org.apache.hadoop.mapred.jobcontrol classes to use the

List/Map interfaces rather than concrete ArrayList/HashMap classes

internally. (Adrian Woodhead via acmurthy)

HADOOP-2406. Add a benchmark for measuring read/write performance through

the InputFormat interface, particularly with compression. (cdouglas)

HADOOP-2131. Allow finer-grained control over speculative-execution. Now

users can set it for maps and reduces independently.

Configuration changes to hadoop-default.xml:

deprecated mapred.speculative.execution

add mapred.map.tasks.speculative.execution

add mapred.reduce.tasks.speculative.execution

(Amareshwari Sri Ramadasu via acmurthy)

HADOOP-1965. Interleave sort/spill in teh map-task along with calls to the

Mapper.map method. This is done by splitting the 'io.sort.mb' buffer into

two and using one half for collecting map-outputs and the other half for

sort/spill. (Amar Kamat via acmurthy)

HADOOP-2464. Unit tests for chmod, chown, and chgrp using DFS.

(Raghu Angadi)

HADOOP-1876. Persist statuses of completed jobs in HDFS so that the

JobClient can query and get information about decommissioned jobs and also

across JobTracker restarts.

Configuration changes to hadoop-default.xml:

add mapred.job.tracker.persist.jobstatus.active (default value of false)

add mapred.job.tracker.persist.jobstatus.hours (default value of 0)

add mapred.job.tracker.persist.jobstatus.dir (default value of

/jobtracker/jobsInfo)

(Alejandro Abdelnur via acmurthy)

HADOOP-2077. Added version and build information to STARTUP\_MSG for all

hadoop daemons to aid error-reporting, debugging etc. (acmurthy)

HADOOP-2398. Additional instrumentation for NameNode and RPC server.

Add support for accessing instrumentation statistics via JMX.

(Sanjay radia via dhruba)

HADOOP-2449. A return of the non-MR version of NNBench.

(Sanjay Radia via shv)

HADOOP-1989. Remove 'datanodecluster' command from bin/hadoop.

(Sanjay Radia via shv)

HADOOP-1742. Improve JavaDoc documentation for ClientProtocol, DFSClient,

and FSNamesystem. (Konstantin Shvachko)

HADOOP-2298. Add Ant target for a binary-only distribution.

(Hrishikesh via nigel)

HADOOP-2509. Add Ant target for Rat report (Apache license header

reports). (Hrishikesh via nigel)

HADOOP-2469. WritableUtils.clone should take a Configuration

instead of a JobConf. (stack via omalley)

HADOOP-2659. Introduce superuser permissions for admin operations.

(Tsz Wo (Nicholas), SZE via shv)

HADOOP-2596. Added a SequenceFile.createWriter api which allows the user

to specify the blocksize, replication factor and the buffersize to be

used for the underlying HDFS file. (Alejandro Abdelnur via acmurthy)

HADOOP-2431. Test HDFS File Permissions. (Hairong Kuang via shv)

HADOOP-2232. Add an option to disable Nagle's algorithm in the IPC stack.

(Clint Morgan via cdouglas)

HADOOP-2342. Created a micro-benchmark for measuring

local-file versus hdfs reads. (Owen O'Malley via nigel)

HADOOP-2529. First version of HDFS User Guide. (Raghu Angadi)

HADOOP-2690. Add jar-test target to build.xml, separating compilation

and packaging of the test classes. (Enis Soztutar via cdouglas)

OPTIMIZATIONS

HADOOP-1898. Release the lock protecting the last time of the last stack

dump while the dump is happening. (Amareshwari Sri Ramadasu via omalley)

HADOOP-1900. Makes the heartbeat and task event queries interval

dependent on the cluster size. (Amareshwari Sri Ramadasu via ddas)

HADOOP-2208. Counter update frequency (from TaskTracker to JobTracker) is

capped at 1 minute. (Amareshwari Sri Ramadasu via ddas)

HADOOP-2284. Reduce the number of progress updates during the sorting in

the map task. (Amar Kamat via ddas)

BUG FIXES

HADOOP-2583. Fixes a bug in the Eclipse plug-in UI to edit locations.

Plug-in version is now synchronized with Hadoop version.

HADOOP-2100. Remove faulty check for existence of $HADOOP\_PID\_DIR and let

'mkdir -p' check & create it. (Michael Bieniosek via acmurthy)

HADOOP-1642. Ensure jobids generated by LocalJobRunner are unique to

avoid collissions and hence job-failures. (Doug Cutting via acmurthy)

HADOOP-2096. Close open file-descriptors held by streams while localizing

job.xml in the JobTracker and while displaying it on the webui in

jobconf.jsp. (Amar Kamat via acmurthy)

HADOOP-2098. Log start & completion of empty jobs to JobHistory, which

also ensures that we close the file-descriptor of the job's history log

opened during job-submission. (Amar Kamat via acmurthy)

HADOOP-2112. Adding back changes to build.xml lost while reverting

HADOOP-1622 i.e. http://svn.apache.org/viewvc?view=rev&revision=588771.

(acmurthy)

HADOOP-2089. Fixes the command line argument handling to handle multiple

-cacheArchive in Hadoop streaming. (Lohit Vijayarenu via ddas)

HADOOP-2071. Fix StreamXmlRecordReader to use a BufferedInputStream

wrapped over the DFSInputStream since mark/reset aren't supported by

DFSInputStream anymore. (Lohit Vijayarenu via acmurthy)

HADOOP-1348. Allow XML comments inside configuration files.

(Rajagopal Natarajan and Enis Soztutar via enis)

HADOOP-1952. Improve handling of invalid, user-specified classes while

configuring streaming jobs such as combiner, input/output formats etc.

Now invalid options are caught, logged and jobs are failed early. (Lohit

Vijayarenu via acmurthy)

HADOOP-2151. FileSystem.globPaths validates the list of Paths that

it returns. (Lohit Vijayarenu via dhruba)

HADOOP-2121. Cleanup DFSOutputStream when the stream encountered errors

when Datanodes became full. (Raghu Angadi via dhruba)

HADOOP-1130. The FileSystem.closeAll() method closes all existing

DFSClients. (Chris Douglas via dhruba)

HADOOP-2204. DFSTestUtil.waitReplication was not waiting for all replicas

to get created, thus causing unit test failure.

(Raghu Angadi via dhruba)

HADOOP-2078. An zero size file may have no blocks associated with it.

(Konstantin Shvachko via dhruba)

HADOOP-2212. ChecksumFileSystem.getSumBufferSize might throw

java.lang.ArithmeticException. The fix is to initialize bytesPerChecksum

to 0. (Michael Bieniosek via ddas)

HADOOP-2216. Fix jobtasks.jsp to ensure that it first collects the

taskids which satisfy the filtering criteria and then use that list to

print out only the required task-reports, previously it was oblivious to

the filtering and hence used the wrong index into the array of task-reports.

(Amar Kamat via acmurthy)

HADOOP-2272. Fix findbugs target to reflect changes made to the location

of the streaming jar file by HADOOP-2207. (Adrian Woodhead via nigel)

HADOOP-2244. Fixes the MapWritable.readFields to clear the instance

field variable every time readFields is called. (Michael Stack via ddas).

HADOOP-2245. Fixes LocalJobRunner to include a jobId in the mapId. Also,

adds a testcase for JobControl. (Adrian Woodhead via ddas).

HADOOP-2275. Fix erroneous detection of corrupted file when namenode

fails to allocate any datanodes for newly allocated block.

(Dhruba Borthakur via dhruba)

HADOOP-2256. Fix a buf in the namenode that could cause it to encounter

an infinite loop while deleting excess replicas that were created by

block rebalancing. (Hairong Kuang via dhruba)

HADOOP-2209. SecondaryNamenode process exits if it encounters exceptions

that it cannot handle. (Dhruba Borthakur via dhruba)

HADOOP-2314. Prevent TestBlockReplacement from occasionally getting

into an infinite loop. (Hairong Kuang via dhruba)

HADOOP-2300. This fixes a bug where mapred.tasktracker.tasks.maximum

would be ignored even if it was set in hadoop-site.xml.

(Amareshwari Sri Ramadasu via ddas)

HADOOP-2349. Improve code layout in file system transaction logging code.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2368. Fix unit tests on Windows.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2363. This fix allows running multiple instances of the unit test

in parallel. The bug was introduced in HADOOP-2185 that changed

port-rolling behaviour. (Konstantin Shvachko via dhruba)

HADOOP-2271. Fix chmod task to be non-parallel. (Adrian Woodhead via

omalley)

HADOOP-2313. Fail the build if building libhdfs fails. (nigel via omalley)

HADOOP-2359. Remove warning for interruptted exception when closing down

minidfs. (dhruba via omalley)

HADOOP-1841. Prevent slow clients from consuming threads in the NameNode.

(dhruba)

HADOOP-2323. JobTracker.close() should not print stack traces for

normal exit. (jimk via cutting)

HADOOP-2376. Prevents sort example from overriding the number of maps.

(Owen O'Malley via ddas)

HADOOP-2434. FSDatasetInterface read interface causes HDFS reads to occur

in 1 byte chunks, causing performance degradation.

(Raghu Angadi via dhruba)

HADOOP-2459. Fix package target so that src/docs/build files are not

included in the release. (nigel)

HADOOP-2215. Fix documentation in cluster\_setup.html &

mapred\_tutorial.html reflect that mapred.tasktracker.tasks.maximum has

been superceeded by mapred.tasktracker.{map|reduce}.tasks.maximum.

(Amareshwari Sri Ramadasu via acmurthy)

HADOOP-2459. Fix package target so that src/docs/build files are not

included in the release. (nigel)

HADOOP-2352. Remove AC\_CHECK\_LIB for libz and liblzo to ensure that

libhadoop.so doesn't have a dependency on them. (acmurthy)

HADOOP-2453. Fix the configuration for wordcount-simple example in Hadoop

Pipes which currently produces an XML parsing error. (Amareshwari Sri

Ramadasu via acmurthy)

HADOOP-2476. Unit test failure while reading permission bits of local

file system (on Windows) fixed. (Raghu Angadi via dhruba)

HADOOP-2247. Fine-tune the strategies for killing mappers and reducers

due to failures while fetching map-outputs. Now the map-completion times

and number of currently running reduces are taken into account by the

JobTracker before killing the mappers, while the progress made by the

reducer and the number of fetch-failures vis-a-vis total number of

fetch-attempts are taken into account before teh reducer kills itself.

(Amar Kamat via acmurthy)

HADOOP-2452. Fix eclipse plug-in build.xml to refers to the right

location where hadoop-\*-core.jar is generated. (taton)

HADOOP-2492. Additional debugging in the rpc server to better

diagnose ConcurrentModificationException. (dhruba)

HADOOP-2344. Enhance the utility for executing shell commands to read the

stdout/stderr streams while waiting for the command to finish (to free up

the buffers). Also, this patch throws away stderr of the DF utility.

@deprecated

org.apache.hadoop.fs.ShellCommand for org.apache.hadoop.util.Shell

org.apache.hadoop.util.ShellUtil for

org.apache.hadoop.util.Shell.ShellCommandExecutor

(Amar Kamat via acmurthy)

HADOOP-2511. Fix a javadoc warning in org.apache.hadoop.util.Shell

introduced by HADOOP-2344. (acmurthy)

HADOOP-2442. Fix TestLocalFileSystemPermission.testLocalFSsetOwner

to work on more platforms. (Raghu Angadi via nigel)

HADOOP-2488. Fix a regression in random read performance.

(Michael Stack via rangadi)

HADOOP-2523. Fix TestDFSShell.testFilePermissions on Windows.

(Raghu Angadi via nigel)

HADOOP-2535. Removed support for deprecated mapred.child.heap.size and

fixed some indentation issues in TaskRunner. (acmurthy)

Configuration changes to hadoop-default.xml:

remove mapred.child.heap.size

HADOOP-2512. Fix error stream handling in Shell. Use exit code to

detect shell command errors in RawLocalFileSystem. (Raghu Angadi)

HADOOP-2446. Fixes TestHDFSServerPorts and TestMRServerPorts so they

do not rely on statically configured ports and cleanup better. (nigel)

HADOOP-2537. Make build process compatible with Ant 1.7.0.

(Hrishikesh via nigel)

HADOOP-1281. Ensure running tasks of completed map TIPs (e.g. speculative

tasks) are killed as soon as the TIP completed. (acmurthy)

HADOOP-2571. Suppress a suprious warning in test code. (cdouglas)

HADOOP-2481. NNBench report its progress periodically.

(Hairong Kuang via dhruba)

HADOOP-2601. Start name-node on a free port for TestNNThroughputBenchmark.

(Konstantin Shvachko)

HADOOP-2494. Set +x on contrib/\*/bin/\* in packaged tar bundle.

(stack via tomwhite)

HADOOP-2605. Remove bogus leading slash in task-tracker report bindAddress.

(Konstantin Shvachko)

HADOOP-2620. Trivial. 'bin/hadoop fs -help' did not list chmod, chown, and

chgrp. (Raghu Angadi)

HADOOP-2614. The DFS WebUI accesses are configured to be from the user

specified by dfs.web.ugi. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2543. Implement a "no-permission-checking" mode for smooth

upgrade from a pre-0.16 install of HDFS.

(Hairong Kuang via dhruba)

HADOOP-290. A DataNode log message now prints the target of a replication

request correctly. (dhruba)

HADOOP-2538. Redirect to a warning, if plaintext parameter is true but

the filter parameter is not given in TaskLogServlet.

(Michael Bieniosek via enis)

HADOOP-2582. Prevent 'bin/hadoop fs -copyToLocal' from creating

zero-length files when the src does not exist.

(Lohit Vijayarenu via cdouglas)

HADOOP-2189. Incrementing user counters should count as progress. (ddas)

HADOOP-2649. The NameNode periodically computes replication work for

the datanodes. The periodicity of this computation is now configurable.

(dhruba)

HADOOP-2549. Correct disk size computation so that data-nodes could switch

to other local drives if current is full. (Hairong Kuang via shv)

HADOOP-2633. Fsck should call name-node methods directly rather than

through rpc. (Tsz Wo (Nicholas), SZE via shv)

HADOOP-2687. Modify a few log message generated by dfs client to be

logged only at INFO level. (stack via dhruba)

HADOOP-2402. Fix BlockCompressorStream to ensure it buffers data before

sending it down to the compressor so that each write call doesn't

compress. (Chris Douglas via acmurthy)

HADOOP-2645. The Metrics initialization code does not throw

exceptions when servers are restarted by MiniDFSCluster.

(Sanjay Radia via dhruba)

HADOOP-2691. Fix a race condition that was causing the DFSClient

to erroneously remove a good datanode from a pipeline that actually

had another datanode that was bad. (dhruba)

HADOOP-1195. All code in FSNamesystem checks the return value

of getDataNode for null before using it. (dhruba)

HADOOP-2640. Fix a bug in MultiFileSplitInputFormat that was always

returning 1 split in some circumstances. (Enis Soztutar via nigel)

HADOOP-2626. Fix paths with special characters to work correctly

with the local filesystem. (Thomas Friol via cutting)

HADOOP-2646. Fix SortValidator to work with fully-qualified

working directories. (Arun C Murthy via nigel)

HADOOP-2092. Added a ping mechanism to the pipes' task to periodically

check if the parent Java task is running, and exit if the parent isn't

alive and responding. (Amareshwari Sri Ramadasu via acmurthy)

HADOOP-2714. TestDecommission failed on windows because the replication

request was timing out. (dhruba)

HADOOP-2576. Namenode performance degradation over time triggered by

large heartbeat interval. (Raghu Angadi)

HADOOP-2713. TestDatanodeDeath failed on windows because the replication

request was timing out. (dhruba)

HADOOP-2639. Fixes a problem to do with incorrect maintenance of values

for runningMapTasks/runningReduceTasks. (Amar Kamat and Arun Murthy

via ddas)

HADOOP-2723. Fixed the check for checking whether to do user task

profiling. (Amareshwari Sri Ramadasu via omalley)

HADOOP-2734. Link forrest docs to new http://hadoop.apache.org

(Doug Cutting via nigel)

HADOOP-2641. Added Apache license headers to 95 files. (nigel)

HADOOP-2732. Fix bug in path globbing. (Hairong Kuang via nigel)

HADOOP-2404. Fix backwards compatability with hadoop-0.15 configuration

files that was broken by HADOOP-2185. (omalley)

HADOOP-2755. Fix fsck performance degradation because of permissions

issue. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-2768. Fix performance regression caused by HADOOP-1707.

(dhruba borthakur via nigel)

HADOOP-3108. Fix NPE in setPermission and setOwner. (shv)

Release 0.15.3 - 2008-01-18

BUG FIXES

HADOOP-2562. globPaths supports {ab,cd}. (Hairong Kuang via dhruba)

HADOOP-2540. fsck reports missing blocks incorrectly. (dhruba)

HADOOP-2570. "work" directory created unconditionally, and symlinks

created from the task cwds.

HADOOP-2574. Fixed mapred\_tutorial.xml to correct minor errors with the

WordCount examples. (acmurthy)

Release 0.15.2 - 2008-01-02

BUG FIXES

HADOOP-2246. Moved the changelog for HADOOP-1851 from the NEW FEATURES

section to the INCOMPATIBLE CHANGES section. (acmurthy)

HADOOP-2238. Fix TaskGraphServlet so that it sets the content type of

the response appropriately. (Paul Saab via enis)

HADOOP-2129. Fix so that distcp works correctly when source is

HDFS but not the default filesystem. HDFS paths returned by the

listStatus() method are now fully-qualified. (cutting)

HADOOP-2378. Fixes a problem where the last task completion event would

get created after the job completes. (Alejandro Abdelnur via ddas)

HADOOP-2228. Checks whether a job with a certain jobId is already running

and then tries to create the JobInProgress object.

(Johan Oskarsson via ddas)

HADOOP-2422. dfs -cat multiple files fail with 'Unable to write to

output stream'. (Raghu Angadi via dhruba)

HADOOP-2460. When the namenode encounters ioerrors on writing a

transaction log, it stops writing new transactions to that one.

(Raghu Angadi via dhruba)

HADOOP-2227. Use the LocalDirAllocator uniformly for handling all of the

temporary storage required for a given task. It also implies that

mapred.local.dir.minspacestart is handled by checking if there is enough

free-space on any one of the available disks. (Amareshwari Sri Ramadasu

via acmurthy)

HADOOP-2437. Fix the LocalDirAllocator to choose the seed for the

round-robin disk selections randomly. This helps in spreading data across

multiple partitions much better. (acmurhty)

HADOOP-2486. When the list of files from the InMemoryFileSystem is obtained

for merging, this patch will ensure that only those files whose checksums

have also got created (renamed) are returned. (ddas)

HADOOP-2456. Hardcode English locale to prevent NumberFormatException

from occurring when starting the NameNode with certain locales.

(Matthias Friedrich via nigel)

IMPROVEMENTS

HADOOP-2160. Remove project-level, non-user documentation from

releases, since it's now maintained in a separate tree. (cutting)

HADOOP-1327. Add user documentation for streaming. (cutting)

HADOOP-2382. Add hadoop-default.html to subversion. (cutting)

HADOOP-2158. hdfsListDirectory calls FileSystem.listStatus instead

of FileSystem.listPaths. This reduces the number of RPC calls on the

namenode, thereby improving scalability. (Christian Kunz via dhruba)

Release 0.15.1 - 2007-11-27

INCOMPATIBLE CHANGES

HADOOP-713. Reduce CPU usage on namenode while listing directories.

FileSystem.listPaths does not return the size of the entire subtree.

Introduced a new API ClientProtocol.getContentLength that returns the

size of the subtree. (Dhruba Borthakur via dhruba)

IMPROVEMENTS

HADOOP-1917. Addition of guides/tutorial for better overall

documentation for Hadoop. Specifically:

\* quickstart.html is targetted towards first-time users and helps them

setup a single-node cluster and play with Hadoop.

\* cluster\_setup.html helps admins to configure and setup non-trivial

hadoop clusters.

\* mapred\_tutorial.html is a comprehensive Map-Reduce tutorial.

(acmurthy)

BUG FIXES

HADOOP-2174. Removed the unnecessary Reporter.setStatus call from

FSCopyFilesMapper.close which led to a NPE since the reporter isn't valid

in the close method. (Chris Douglas via acmurthy)

HADOOP-2172. Restore performance of random access to local files

by caching positions of local input streams, avoiding a system

call. (cutting)

HADOOP-2205. Regenerate the Hadoop website since some of the changes made

by HADOOP-1917 weren't correctly copied over to the trunk/docs directory.

Also fixed a couple of minor typos and broken links. (acmurthy)

Release 0.15.0 - 2007-11-2

INCOMPATIBLE CHANGES

HADOOP-1708. Make files appear in namespace as soon as they are

created. (Dhruba Borthakur via dhruba)

HADOOP-999. A HDFS Client immediately informs the NameNode of a new

file creation. ClientProtocol version changed from 14 to 15.

(Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-932. File locking interfaces and implementations (that were

earlier deprecated) are removed. Client Protocol version changed

from 15 to 16. (Raghu Angadi via dhruba)

HADOOP-1621. FileStatus is now a concrete class and FileSystem.listPaths

is deprecated and replaced with listStatus. (Chris Douglas via omalley)

HADOOP-1656. The blockSize of a file is stored persistently in the file

inode. (Dhruba Borthakur via dhruba)

HADOOP-1838. The blocksize of files created with an earlier release is

set to the default block size. (Dhruba Borthakur via dhruba)

HADOOP-785. Add support for 'final' Configuration parameters,

removing support for 'mapred-default.xml', and changing

'hadoop-site.xml' to not override other files. Now folks should

generally use 'hadoop-site.xml' for all configurations. Values

with a 'final' tag may not be overridden by subsequently loaded

configuration files, e.g., by jobs. (Arun C. Murthy via cutting)

HADOOP-1846. DatanodeReport in ClientProtocol can report live

datanodes, dead datanodes or all datanodes. Client Protocol version

changed from 17 to 18. (Hairong Kuang via dhruba)

HADOOP-1851. Permit specification of map output compression type

and codec, independent of the final output's compression

parameters. (Arun C Murthy via cutting)

HADOOP-1819. Jobtracker cleanups, including binding ports before

clearing state directories, so that inadvertently starting a

second jobtracker doesn't trash one that's already running. Removed

method JobTracker.getTracker() because the static variable, which

stored the value caused initialization problems.

(omalley via cutting)

NEW FEATURES

HADOOP-89. A client can access file data even before the creator

has closed the file. Introduce a new command "tail" from dfs shell.

(Dhruba Borthakur via dhruba)

HADOOP-1636. Allow configuration of the number of jobs kept in

memory by the JobTracker. (Michael Bieniosek via omalley)

HADOOP-1667. Reorganize CHANGES.txt into sections to make it

easier to read. Also remove numbering, to make merging easier.

(cutting)

HADOOP-1610. Add metrics for failed tasks.

(Devaraj Das via tomwhite)

HADOOP-1767. Add "bin/hadoop job -list" sub-command. (taton via cutting)

HADOOP-1351. Add "bin/hadoop job [-fail-task|-kill-task]" sub-commands

to terminate a particular task-attempt. (Enis Soztutar via acmurthy)

HADOOP-1880. SleepJob : An example job that sleeps at each map and

reduce task. (enis)

HADOOP-1809. Add a link in web site to #hadoop IRC channel. (enis)

HADOOP-1894. Add percentage graphs and mapred task completion graphs

to Web User Interface. Users not using Firefox may install a plugin to

their browsers to see svg graphics. (enis)

HADOOP-1914. Introduce a new NamenodeProtocol to allow secondary

namenodes and rebalancing processes to communicate with a primary

namenode. (Hairong Kuang via dhruba)

HADOOP-1963. Add a FileSystem implementation for the Kosmos

Filesystem (KFS). (Sriram Rao via cutting)

HADOOP-1822. Allow the specialization and configuration of socket

factories. Provide a StandardSocketFactory, and a SocksSocketFactory to

allow the use of SOCKS proxies. (taton).

HADOOP-1968. FileSystem supports wildcard input syntax "{ }".

(Hairong Kuang via dhruba)

HADOOP-2566. Add globStatus method to the FileSystem interface

and deprecate globPath and listPath. (Hairong Kuang via hairong)

OPTIMIZATIONS

HADOOP-1910. Reduce the number of RPCs that DistributedFileSystem.create()

makes to the namenode. (Raghu Angadi via dhruba)

HADOOP-1565. Reduce memory usage of NameNode by replacing

TreeMap in HDFS Namespace with ArrayList.

(Dhruba Borthakur via dhruba)

HADOOP-1743. Change DFS INode from a nested class to standalone

class, with specialized subclasses for directories and files, to

save memory on the namenode. (Konstantin Shvachko via cutting)

HADOOP-1759. Change file name in INode from String to byte[],

saving memory on the namenode. (Konstantin Shvachko via cutting)

HADOOP-1766. Save memory in namenode by having BlockInfo extend

Block, and replace many uses of Block with BlockInfo.

(Konstantin Shvachko via cutting)

HADOOP-1687. Save memory in namenode by optimizing BlockMap

representation. (Konstantin Shvachko via cutting)

HADOOP-1774. Remove use of INode.parent in Block CRC upgrade.

(Raghu Angadi via dhruba)

HADOOP-1788. Increase the buffer size on the Pipes command socket.

(Amareshwari Sri Ramadasu and Christian Kunz via omalley)

BUG FIXES

HADOOP-1946. The Datanode code does not need to invoke du on

every heartbeat. (Hairong Kuang via dhruba)

HADOOP-1935. Fix a NullPointerException in internalReleaseCreate.

(Dhruba Borthakur)

HADOOP-1933. The nodes listed in include and exclude files

are always listed in the datanode report.

(Raghu Angadi via dhruba)

HADOOP-1953. The job tracker should wait beteween calls to try and delete

the system directory (Owen O'Malley via devaraj)

HADOOP-1932. TestFileCreation fails with message saying filestatus.dat

is of incorrect size. (Dhruba Borthakur via dhruba)

HADOOP-1573. Support for 0 reducers in PIPES.

(Owen O'Malley via devaraj)

HADOOP-1500. Fix typographical errors in the DFS WebUI.

(Nigel Daley via dhruba)

HADOOP-1076. Periodic checkpoint can continue even if an earlier

checkpoint encountered an error. (Dhruba Borthakur via dhruba)

HADOOP-1887. The Namenode encounters an ArrayIndexOutOfBoundsException

while listing a directory that had a file that was

being actively written to. (Dhruba Borthakur via dhruba)

HADOOP-1904. The Namenode encounters an exception because the

list of blocks per datanode-descriptor was corrupted.

(Konstantin Shvachko via dhruba)

HADOOP-1762. The Namenode fsimage does not contain a list of

Datanodes. (Raghu Angadi via dhruba)

HADOOP-1890. Removed debugging prints introduced by HADOOP-1774.

(Raghu Angadi via dhruba)

HADOOP-1763. Too many lost task trackers on large clusters due to

insufficient number of RPC handler threads on the JobTracker.

(Devaraj Das)

HADOOP-1463. HDFS report correct usage statistics for disk space

used by HDFS. (Hairong Kuang via dhruba)

HADOOP-1692. In DFS ant task, don't cache the Configuration.

(Chris Douglas via cutting)

HADOOP-1726. Remove lib/jetty-ext/ant.jar. (omalley)

HADOOP-1772. Fix hadoop-daemon.sh script to get correct hostname

under Cygwin. (Tsz Wo (Nicholas), SZE via cutting)

HADOOP-1749. Change TestDFSUpgrade to sort files, fixing sporadic

test failures. (Enis Soztutar via cutting)

HADOOP-1748. Fix tasktracker to be able to launch tasks when log

directory is relative. (omalley via cutting)

HADOOP-1775. Fix a NullPointerException and an

IllegalArgumentException in MapWritable.

(Jim Kellerman via cutting)

HADOOP-1795. Fix so that jobs can generate output file names with

special characters. (Fr??d??ric Bertin via cutting)

HADOOP-1810. Fix incorrect value type in MRBench (SmallJobs)

(Devaraj Das via tomwhite)

HADOOP-1806. Fix ant task to compile again, also fix default

builds to compile ant tasks. (Chris Douglas via cutting)

HADOOP-1758. Fix escape processing in librecordio to not be

quadratic. (Vivek Ratan via cutting)

HADOOP-1817. Fix MultiFileSplit to read and write the split

length, so that it is not always zero in map tasks.

(Thomas Friol via cutting)

HADOOP-1853. Fix contrib/streaming to accept multiple -cacheFile

options. (Prachi Gupta via cutting)

HADOOP-1818. Fix MultiFileInputFormat so that it does not return

empty splits when numPaths < numSplits. (Thomas Friol via enis)

HADOOP-1840. Fix race condition which leads to task's diagnostic

messages getting lost. (acmurthy)

HADOOP-1885. Fix race condition in MiniDFSCluster shutdown.

(Chris Douglas via nigel)

HADOOP-1889. Fix path in EC2 scripts for building your own AMI.

(tomwhite)

HADOOP-1892. Fix a NullPointerException in the JobTracker when

trying to fetch a task's diagnostic messages from the JobClient.

(Amar Kamat via acmurthy)

HADOOP-1897. Completely remove about.html page from the web site.

(enis)

HADOOP-1907. Fix null pointer exception when getting task diagnostics

in JobClient. (Christian Kunz via omalley)

HADOOP-1882. Remove spurious asterisks from decimal number displays.

(Raghu Angadi via cutting)

HADOOP-1783. Make S3 FileSystem return Paths fully-qualified with

scheme and host. (tomwhite)

HADOOP-1925. Make pipes' autoconf script look for libsocket and libnsl, so

that it can compile under Solaris. (omalley)

HADOOP-1940. TestDFSUpgradeFromImage must shut down its MiniDFSCluster.

(Chris Douglas via nigel)

HADOOP-1930. Fix the blame for failed fetchs on the right host. (Arun C.

Murthy via omalley)

HADOOP-1934. Fix the platform name on Mac to use underscores rather than

spaces. (omalley)

HADOOP-1959. Use "/" instead of File.separator in the StatusHttpServer.

(jimk via omalley)

HADOOP-1626. Improve dfsadmin help messages.

(Lohit Vijayarenu via dhruba)

HADOOP-1695. The SecondaryNamenode waits for the Primary NameNode to

start up. (Dhruba Borthakur)

HADOOP-1983. Have Pipes flush the command socket when progress is sent

to prevent timeouts during long computations. (omalley)

HADOOP-1875. Non-existant directories or read-only directories are

filtered from dfs.client.buffer.dir. (Hairong Kuang via dhruba)

HADOOP-1992. Fix the performance degradation in the sort validator.

(acmurthy via omalley)

HADOOP-1874. Move task-outputs' promotion/discard to a separate thread

distinct from the main heartbeat-processing thread. The main upside being

that we do not lock-up the JobTracker during HDFS operations, which

otherwise may lead to lost tasktrackers if the NameNode is unresponsive.

(Devaraj Das via acmurthy)

HADOOP-2026. Namenode prints out one log line for "Number of transactions"

at most once every minute. (Dhruba Borthakur)

HADOOP-2022. Ensure that status information for successful tasks is correctly

recorded at the JobTracker, so that, for example, one may view correct

information via taskdetails.jsp. This bug was introduced by HADOOP-1874.

(Amar Kamat via acmurthy)

HADOOP-2031. Correctly maintain the taskid which takes the TIP to

completion, failing which the case of lost tasktrackers isn't handled

properly i.e. the map TIP is incorrectly left marked as 'complete' and it

is never rescheduled elsewhere, leading to hung reduces.

(Devaraj Das via acmurthy)

HADOOP-2018. The source datanode of a data transfer waits for

a response from the target datanode before closing the data stream.

(Hairong Kuang via dhruba)

HADOOP-2023. Disable TestLocalDirAllocator on Windows.

(Hairong Kuang via nigel)

HADOOP-2016. Ignore status-updates from FAILED/KILLED tasks at the

TaskTracker. This fixes a race-condition which caused the tasks to wrongly

remain in the RUNNING state even after being killed by the JobTracker and

thus handicap the cleanup of the task's output sub-directory. (acmurthy)

HADOOP-1771. Fix a NullPointerException in streaming caused by an

IOException in MROutputThread. (lohit vijayarenu via nigel)

HADOOP-2028. Fix distcp so that the log dir does not need to be

specified and the destination does not need to exist.

(Chris Douglas via nigel)

HADOOP-2044. The namenode protects all lease manipulations using a

sortedLease lock. (Dhruba Borthakur)

HADOOP-2051. The TaskCommit thread should not die for exceptions other

than the InterruptedException. This behavior is there for the other long

running threads in the JobTracker. (Arun C Murthy via ddas)

HADOOP-1973. The FileSystem object would be accessed on the JobTracker

through a RPC in the InterTrackerProtocol. The check for the object being

null was missing and hence NPE would be thrown sometimes. This issue fixes

that problem. (Amareshwari Sri Ramadasu via ddas)

HADOOP-2033. The SequenceFile.Writer.sync method was a no-op, which caused

very uneven splits for applications like distcp that count on them.

(omalley)

HADOOP-2070. Added a flush method to pipes' DownwardProtocol and call

that before waiting for the application to finish to ensure all buffered

data is flushed. (Owen O'Malley via acmurthy)

HADOOP-2080. Fixed calculation of the checksum file size when the values

are large. (omalley)

HADOOP-2048. Change error handling in distcp so that each map copies

as much as possible before reporting the error. Also report progress on

every copy. (Chris Douglas via omalley)

HADOOP-2073. Change size of VERSION file after writing contents to it.

(Konstantin Shvachko via dhruba)

HADOOP-2102. Fix the deprecated ToolBase to pass its Configuration object

to the superceding ToolRunner to ensure it picks up the appropriate

configuration resources. (Dennis Kubes and Enis Soztutar via acmurthy)

HADOOP-2103. Fix minor javadoc bugs introduce by HADOOP-2046. (Nigel

Daley via acmurthy)

IMPROVEMENTS

HADOOP-1908. Restructure data node code so that block sending and

receiving are seperated from data transfer header handling.

(Hairong Kuang via dhruba)

HADOOP-1921. Save the configuration of completed/failed jobs and make them

available via the web-ui. (Amar Kamat via devaraj)

HADOOP-1266. Remove dependency of package org.apache.hadoop.net on

org.apache.hadoop.dfs. (Hairong Kuang via dhruba)

HADOOP-1779. Replace INodeDirectory.getINode() by a getExistingPathINodes()

to allow the retrieval of all existing INodes along a given path in a

single lookup. This facilitates removal of the 'parent' field in the

inode. (Christophe Taton via dhruba)

HADOOP-1756. Add toString() to some Writable-s. (ab)

HADOOP-1727. New classes: MapWritable and SortedMapWritable.

(Jim Kellerman via ab)

HADOOP-1651. Improve progress reporting.

(Devaraj Das via tomwhite)

HADOOP-1595. dfsshell can wait for a file to achieve its intended

replication target. (Tsz Wo (Nicholas), SZE via dhruba)

HADOOP-1693. Remove un-needed log fields in DFS replication classes,

since the log may be accessed statically. (Konstantin Shvachko via cutting)

HADOOP-1231. Add generics to Mapper and Reducer interfaces.

(tomwhite via cutting)

HADOOP-1436. Improved command-line APIs, so that all tools need

not subclass ToolBase, and generic parameter parser is public.

(Enis Soztutar via cutting)

HADOOP-1703. DFS-internal code cleanups, removing several uses of

the obsolete UTF8. (Christophe Taton via cutting)

HADOOP-1731. Add Hadoop's version to contrib jar file names.

(cutting)

HADOOP-1689. Make shell scripts more portable. All shell scripts

now explicitly depend on bash, but do not require that bash be

installed in a particular location, as long as it is on $PATH.

(cutting)

HADOOP-1744. Remove many uses of the deprecated UTF8 class from

the HDFS namenode. (Christophe Taton via cutting)

HADOOP-1654. Add IOUtils class, containing generic io-related

utility methods. (Enis Soztutar via cutting)

HADOOP-1158. Change JobTracker to record map-output transmission

errors and use them to trigger speculative re-execution of tasks.

(Arun C Murthy via cutting)

HADOOP-1601. Change GenericWritable to use ReflectionUtils for

instance creation, avoiding classloader issues, and to implement

Configurable. (Enis Soztutar via cutting)

HADOOP-1750. Log standard output and standard error when forking

task processes. (omalley via cutting)

HADOOP-1803. Generalize build.xml to make files in all

src/contrib/\*/bin directories executable. (stack via cutting)

HADOOP-1739. Let OS always choose the tasktracker's umbilical

port. Also switch default address for umbilical connections to

loopback. (cutting)

HADOOP-1812. Let OS choose ports for IPC and RPC unit tests. (cutting)

HADOOP-1825. Create $HADOOP\_PID\_DIR when it does not exist.

(Michael Bieniosek via cutting)

HADOOP-1425. Replace uses of ToolBase with the Tool interface.

(Enis Soztutar via cutting)

HADOOP-1569. Reimplement DistCP to use the standard FileSystem/URI

code in Hadoop so that you can copy from and to all of the supported file

systems.(Chris Douglas via omalley)

HADOOP-1018. Improve documentation w.r.t handling of lost hearbeats between

TaskTrackers and JobTracker. (acmurthy)

HADOOP-1718. Add ant targets for measuring code coverage with clover.

(simonwillnauer via nigel)

HADOOP-1592. Log error messages to the client console when tasks

fail. (Amar Kamat via cutting)

HADOOP-1879. Remove some unneeded casts. (Nilay Vaish via cutting)

HADOOP-1878. Add space between priority links on job details

page. (Thomas Friol via cutting)

HADOOP-120. In ArrayWritable, prevent creation with null value

class, and improve documentation. (Cameron Pope via cutting)

HADOOP-1926. Add a random text writer example/benchmark so that we can

benchmark compression codecs on random data. (acmurthy via omalley)

HADOOP-1906. Warn the user if they have an obsolete madred-default.xml

file in their configuration directory. (acmurthy via omalley)

HADOOP-1971. Warn when job does not specify a jar. (enis via cutting)

HADOOP-1942. Increase the concurrency of transaction logging to

edits log. Reduce the number of syncs by double-buffering the changes

to the transaction log. (Dhruba Borthakur)

HADOOP-2046. Improve mapred javadoc. (Arun C. Murthy via cutting)

HADOOP-2105. Improve overview.html to clarify supported platforms,

software pre-requisites for hadoop, how to install them on various

platforms and a better general description of hadoop and it's utility.

(Jim Kellerman via acmurthy)

Release 0.14.4 - 2007-11-26

BUG FIXES

HADOOP-2140. Add missing Apache Licensing text at the front of several

C and C++ files.

HADOOP-2169. Fix the DT\_SONAME field of libhdfs.so to set it to the

correct value of 'libhdfs.so', currently it is set to the absolute path of

libhdfs.so. (acmurthy)

HADOOP-2001. Make the job priority updates and job kills synchronized on

the JobTracker. Deadlock was seen in the JobTracker because of the lack of

this synchronization. (Arun C Murthy via ddas)

Release 0.14.3 - 2007-10-19

BUG FIXES

HADOOP-2053. Fixed a dangling reference to a memory buffer in the map

output sorter. (acmurthy via omalley)

HADOOP-2036. Fix a NullPointerException in JvmMetrics class. (nigel)

HADOOP-2043. Release 0.14.2 was compiled with Java 1.6 rather than

Java 1.5. (cutting)

Release 0.14.2 - 2007-10-09

BUG FIXES

HADOOP-1948. Removed spurious error message during block crc upgrade.

(Raghu Angadi via dhruba)

HADOOP-1862. reduces are getting stuck trying to find map outputs.

(Arun C. Murthy via ddas)

HADOOP-1977. Fixed handling of ToolBase cli options in JobClient.

(enis via omalley)

HADOOP-1972. Fix LzoCompressor to ensure the user has actually asked

to finish compression. (arun via omalley)

HADOOP-1970. Fix deadlock in progress reporting in the task. (Vivek

Ratan via omalley)

HADOOP-1978. Name-node removes edits.new after a successful startup.

(Konstantin Shvachko via dhruba)

HADOOP-1955. The Namenode tries to not pick the same source Datanode for

a replication request if the earlier replication request for the same

block and that source Datanode had failed.

(Raghu Angadi via dhruba)

HADOOP-1961. The -get option to dfs-shell works when a single filename

is specified. (Raghu Angadi via dhruba)

HADOOP-1997. TestCheckpoint closes the edits file after writing to it,

otherwise the rename of this file on Windows fails.

(Konstantin Shvachko via dhruba)

Release 0.14.1 - 2007-09-04

BUG FIXES

HADOOP-1740. Fix null pointer exception in sorting map outputs. (Devaraj

Das via omalley)

HADOOP-1790. Fix tasktracker to work correctly on multi-homed

boxes. (Torsten Curdt via cutting)

HADOOP-1798. Fix jobtracker to correctly account for failed

tasks. (omalley via cutting)

Release 0.14.0 - 2007-08-17

INCOMPATIBLE CHANGES

1. HADOOP-1134.

CONFIG/API - dfs.block.size must now be a multiple of

io.byte.per.checksum, otherwise new files can not be written.

LAYOUT - DFS layout version changed from -6 to -7, which will require an

upgrade from previous versions.

PROTOCOL - Datanode RPC protocol version changed from 7 to 8.

2. HADOOP-1283

API - deprecated file locking API.

3. HADOOP-894

PROTOCOL - changed ClientProtocol to fetch parts of block locations.

4. HADOOP-1336

CONFIG - Enable speculative execution by default.

5. HADOOP-1197

API - deprecated method for Configuration.getObject, because

Configurations should only contain strings.

6. HADOOP-1343

API - deprecate Configuration.set(String,Object) so that only strings are

put in Configrations.

7. HADOOP-1207

CLI - Fix FsShell 'rm' command to continue when a non-existent file is

encountered.

8. HADOOP-1473

CLI/API - Job, TIP, and Task id formats have changed and are now unique

across job tracker restarts.

9. HADOOP-1400

API - JobClient constructor now takes a JobConf object instead of a

Configuration object.

NEW FEATURES and BUG FIXES

1. HADOOP-1197. In Configuration, deprecate getObject() and add

getRaw(), which skips variable expansion. (omalley via cutting)

2. HADOOP-1343. In Configuration, deprecate set(String,Object) and

implement Iterable. (omalley via cutting)

3. HADOOP-1344. Add RunningJob#getJobName(). (Michael Bieniosek via cutting)

4. HADOOP-1342. In aggregators, permit one to limit the number of

unique values per key. (Runping Qi via cutting)

5. HADOOP-1340. Set the replication factor of the MD5 file in the filecache

to be the same as the replication factor of the original file.

(Dhruba Borthakur via tomwhite.)

6. HADOOP-1355. Fix null pointer dereference in

TaskLogAppender.append(LoggingEvent). (Arun C Murthy via tomwhite.)

7. HADOOP-1357. Fix CopyFiles to correctly avoid removing "/".

(Arun C Murthy via cutting)

8. HADOOP-234. Add pipes facility, which permits writing MapReduce

programs in C++.

9. HADOOP-1359. Fix a potential NullPointerException in HDFS.

(Hairong Kuang via cutting)

10. HADOOP-1364. Fix inconsistent synchronization in SequenceFile.

(omalley via cutting)

11. HADOOP-1379. Add findbugs target to build.xml.

(Nigel Daley via cutting)

12. HADOOP-1364. Fix various inconsistent synchronization issues.

(Devaraj Das via cutting)

13. HADOOP-1393. Remove a potential unexpected negative number from

uses of random number generator. (omalley via cutting)

14. HADOOP-1387. A number of "performance" code-cleanups suggested

by findbugs. (Arun C Murthy via cutting)

15. HADOOP-1401. Add contrib/hbase javadoc to tree. (stack via cutting)

16. HADOOP-894. Change HDFS so that the client only retrieves a limited

number of block locations per request from the namenode.

(Konstantin Shvachko via cutting)

17. HADOOP-1406. Plug a leak in MapReduce's use of metrics.

(David Bowen via cutting)

18. HADOOP-1394. Implement "performance" code-cleanups in HDFS

suggested by findbugs. (Raghu Angadi via cutting)

19. HADOOP-1413. Add example program that uses Knuth's dancing links

algorithm to solve pentomino problems. (omalley via cutting)

20. HADOOP-1226. Change HDFS so that paths it returns are always

fully qualified. (Dhruba Borthakur via cutting)

21. HADOOP-800. Improvements to HDFS web-based file browser.

(Enis Soztutar via cutting)

22. HADOOP-1408. Fix a compiler warning by adding a class to replace

a generic. (omalley via cutting)

23. HADOOP-1376. Modify RandomWriter example so that it can generate

data for the Terasort benchmark. (Devaraj Das via cutting)

24. HADOOP-1429. Stop logging exceptions during normal IPC server

shutdown. (stack via cutting)

25. HADOOP-1461. Fix the synchronization of the task tracker to

avoid lockups in job cleanup. (Arun C Murthy via omalley)

26. HADOOP-1446. Update the TaskTracker metrics while the task is

running. (Devaraj via omalley)

27. HADOOP-1414. Fix a number of issues identified by FindBugs as

"Bad Practice". (Dhruba Borthakur via cutting)

28. HADOOP-1392. Fix "correctness" bugs identified by FindBugs in

fs and dfs packages. (Raghu Angadi via cutting)

29. HADOOP-1412. Fix "dodgy" bugs identified by FindBugs in fs and

io packages. (Hairong Kuang via cutting)

30. HADOOP-1261. Remove redundant events from HDFS namenode's edit

log when a datanode restarts. (Raghu Angadi via cutting)

31. HADOOP-1336. Re-enable speculative execution by

default. (omalley via cutting)

32. HADOOP-1311. Fix a bug in BytesWritable#set() where start offset

was ignored. (Dhruba Borthakur via cutting)

33. HADOOP-1450. Move checksumming closer to user code, so that

checksums are created before data is stored in large buffers and

verified after data is read from large buffers, to better catch

memory errors. (cutting)

34. HADOOP-1447. Add support in contrib/data\_join for text inputs.

(Senthil Subramanian via cutting)

35. HADOOP-1456. Fix TestDecommission assertion failure by setting

the namenode to ignore the load on datanodes while allocating

replicas. (Dhruba Borthakur via tomwhite)

36. HADOOP-1396. Fix FileNotFoundException on DFS block.

(Dhruba Borthakur via tomwhite)

37. HADOOP-1467. Remove redundant counters from WordCount example.

(Owen O'Malley via tomwhite)

38. HADOOP-1139. Log HDFS block transitions at INFO level, to better

enable diagnosis of problems. (Dhruba Borthakur via cutting)

39. HADOOP-1269. Finer grained locking in HDFS namenode.

(Dhruba Borthakur via cutting)

40. HADOOP-1438. Improve HDFS documentation, correcting typos and

making images appear in PDF. Also update copyright date for all

docs. (Luke Nezda via cutting)

41. HADOOP-1457. Add counters for monitoring task assignments.

(Arun C Murthy via tomwhite)

42. HADOOP-1472. Fix so that timed-out tasks are counted as failures

rather than as killed. (Arun C Murthy via cutting)

43. HADOOP-1234. Fix a race condition in file cache that caused

tasktracker to not be able to find cached files.

(Arun C Murthy via cutting)

44. HADOOP-1482. Fix secondary namenode to roll info port.

(Dhruba Borthakur via cutting)

45. HADOOP-1300. Improve removal of excess block replicas to be

rack-aware. Attempts are now made to keep replicas on more

racks. (Hairong Kuang via cutting)

46. HADOOP-1417. Disable a few FindBugs checks that generate a lot

of spurious warnings. (Nigel Daley via cutting)

47. HADOOP-1320. Rewrite RandomWriter example to bypass reduce.

(Arun C Murthy via cutting)

48. HADOOP-1449. Add some examples to contrib/data\_join.

(Senthil Subramanian via cutting)

49. HADOOP-1459. Fix so that, in HDFS, getFileCacheHints() returns

hostnames instead of IP addresses. (Dhruba Borthakur via cutting)

50. HADOOP-1493. Permit specification of "java.library.path" system

property in "mapred.child.java.opts" configuration property.

(Enis Soztutar via cutting)

51. HADOOP-1372. Use LocalDirAllocator for HDFS temporary block

files, so that disk space, writability, etc. is considered.

(Dhruba Borthakur via cutting)

52. HADOOP-1193. Pool allocation of compression codecs. This

eliminates a memory leak that could cause OutOfMemoryException,

and also substantially improves performance.

(Arun C Murthy via cutting)

53. HADOOP-1492. Fix a NullPointerException handling version

mismatch during datanode registration.

(Konstantin Shvachko via cutting)

54. HADOOP-1442. Fix handling of zero-length input splits.

(Senthil Subramanian via cutting)

55. HADOOP-1444. Fix HDFS block id generation to check pending

blocks for duplicates. (Dhruba Borthakur via cutting)

56. HADOOP-1207. Fix FsShell's 'rm' command to not stop when one of

the named files does not exist. (Tsz Wo Sze via cutting)

57. HADOOP-1475. Clear tasktracker's file cache before it

re-initializes, to avoid confusion. (omalley via cutting)

58. HADOOP-1505. Remove spurious stacktrace in ZlibFactory

introduced in HADOOP-1093. (Michael Stack via tomwhite)

59. HADOOP-1484. Permit one to kill jobs from the web ui. Note that

this is disabled by default. One must set

"webinterface.private.actions" to enable this.

(Enis Soztutar via cutting)

60. HADOOP-1003. Remove flushing of namenode edit log from primary

namenode lock, increasing namenode throughput.

(Dhruba Borthakur via cutting)

61. HADOOP-1023. Add links to searchable mail archives.

(tomwhite via cutting)

62. HADOOP-1504. Fix terminate-hadoop-cluster script in contrib/ec2

to only terminate Hadoop instances, and not other instances

started by the same user. (tomwhite via cutting)

63. HADOOP-1462. Improve task progress reporting. Progress reports

are no longer blocking since i/o is performed in a separate

thread. Reporting during sorting and more is also more

consistent. (Vivek Ratan via cutting)

64. [ intentionally blank ]

65. HADOOP-1453. Remove some unneeded calls to FileSystem#exists()

when opening files, reducing the namenode load somewhat.

(Raghu Angadi via cutting)

66. HADOOP-1489. Fix text input truncation bug due to mark/reset.

Add a unittest. (Bwolen Yang via cutting)

67. HADOOP-1455. Permit specification of arbitrary job options on

pipes command line. (Devaraj Das via cutting)

68. HADOOP-1501. Better randomize sending of block reports to

namenode, so reduce load spikes. (Dhruba Borthakur via cutting)

69. HADOOP-1147. Remove @author tags from Java source files.

70. HADOOP-1283. Convert most uses of UTF8 in the namenode to be

String. (Konstantin Shvachko via cutting)

71. HADOOP-1511. Speedup hbase unit tests. (stack via cutting)

72. HADOOP-1517. Remove some synchronization in namenode to permit

finer grained locking previously added. (Konstantin Shvachko via cutting)

73. HADOOP-1512. Fix failing TestTextInputFormat on Windows.

(Senthil Subramanian via nigel)

74. HADOOP-1518. Add a session id to job metrics, for use by HOD.

(David Bowen via cutting)

75. HADOOP-1292. Change 'bin/hadoop fs -get' to first copy files to

a temporary name, then rename them to their final name, so that

failures don't leave partial files. (Tsz Wo Sze via cutting)

76. HADOOP-1377. Add support for modification time to FileSystem and

implement in HDFS and local implementations. Also, alter access

to file properties to be through a new FileStatus interface.

(Dhruba Borthakur via cutting)

77. HADOOP-1515. Add MultiFileInputFormat, which can pack multiple,

typically small, input files into each split. (Enis Soztutar via cutting)

78. HADOOP-1514. Make reducers report progress while waiting for map

outputs, so they're not killed. (Vivek Ratan via cutting)

79. HADOOP-1508. Add an Ant task for FsShell operations. Also add

new FsShell commands "touchz", "test" and "stat".

(Chris Douglas via cutting)

80. HADOOP-1028. Add log messages for server startup and shutdown.

(Tsz Wo Sze via cutting)

81. HADOOP-1485. Add metrics for monitoring shuffle.

(Devaraj Das via cutting)

82. HADOOP-1536. Remove file locks from libhdfs tests.

(Dhruba Borthakur via nigel)

83. HADOOP-1520. Add appropriate synchronization to FSEditsLog.

(Dhruba Borthakur via nigel)

84. HADOOP-1513. Fix a race condition in directory creation.

(Devaraj via omalley)

85. HADOOP-1546. Remove spurious column from HDFS web UI.

(Dhruba Borthakur via cutting)

86. HADOOP-1556. Make LocalJobRunner delete working files at end of

job run. (Devaraj Das via tomwhite)

87. HADOOP-1571. Add contrib lib directories to root build.xml

javadoc classpath. (Michael Stack via tomwhite)

88. HADOOP-1554. Log killed tasks to the job history and display them on the

web/ui. (Devaraj Das via omalley)

89. HADOOP-1533. Add persistent error logging for distcp. The logs are stored

into a specified hdfs directory. (Senthil Subramanian via omalley)

90. HADOOP-1286. Add support to HDFS for distributed upgrades, which

permits coordinated upgrade of datanode data.

(Konstantin Shvachko via cutting)

91. HADOOP-1580. Improve contrib/streaming so that subprocess exit

status is displayed for errors. (John Heidemann via cutting)

92. HADOOP-1448. In HDFS, randomize lists of non-local block

locations returned to client, so that load is better balanced.

(Hairong Kuang via cutting)

93. HADOOP-1578. Fix datanode to send its storage id to namenode

during registration. (Konstantin Shvachko via cutting)

94. HADOOP-1584. Fix a bug in GenericWritable which limited it to

128 types instead of 256. (Espen Amble Kolstad via cutting)

95. HADOOP-1473. Make job ids unique across jobtracker restarts.

(omalley via cutting)

96. HADOOP-1582. Fix hdfslib to return 0 instead of -1 at

end-of-file, per C conventions. (Christian Kunz via cutting)

97. HADOOP-911. Fix a multithreading bug in libhdfs.

(Christian Kunz)

98. HADOOP-1486. Fix so that fatal exceptions in namenode cause it

to exit. (Dhruba Borthakur via cutting)

99. HADOOP-1470. Factor checksum generation and validation out of

ChecksumFileSystem so that it can be reused by FileSystem's with

built-in checksumming. (Hairong Kuang via cutting)

100. HADOOP-1590. Use relative urls in jobtracker jsp pages, so that

webapp can be used in non-root contexts. (Thomas Friol via cutting)

101. HADOOP-1596. Fix the parsing of taskids by streaming and improve the

error reporting. (omalley)

102. HADOOP-1535. Fix the user-controlled grouping to the reduce function.

(Vivek Ratan via omalley)

103. HADOOP-1585. Modify GenericWritable to declare the classes as subtypes

of Writable (Espen Amble Kolstad via omalley)

104. HADOOP-1576. Fix errors in count of completed tasks when

speculative execution is enabled. (Arun C Murthy via cutting)

105. HADOOP-1598. Fix license headers: adding missing; updating old.

(Enis Soztutar via cutting)

106. HADOOP-1547. Provide examples for aggregate library.

(Runping Qi via tomwhite)

107. HADOOP-1570. Permit jobs to enable and disable the use of

hadoop's native library. (Arun C Murthy via cutting)

108. HADOOP-1433. Add job priority. (Johan Oskarsson via tomwhite)

109. HADOOP-1597. Add status reports and post-upgrade options to HDFS

distributed upgrade. (Konstantin Shvachko via cutting)

110. HADOOP-1524. Permit user task logs to appear as they're

created. (Michael Bieniosek via cutting)

111. HADOOP-1599. Fix distcp bug on Windows. (Senthil Subramanian via cutting)

112. HADOOP-1562. Add JVM metrics, including GC and logging stats.

(David Bowen via cutting)

113. HADOOP-1613. Fix "DFS Health" page to display correct time of

last contact. (Dhruba Borthakur via cutting)

114. HADOOP-1134. Add optimized checksum support to HDFS. Checksums

are now stored with each block, rather than as parallel files.

This reduces the namenode's memory requirements and increases

data integrity. (Raghu Angadi via cutting)

115. HADOOP-1400. Make JobClient retry requests, so that clients can

survive jobtracker problems. (omalley via cutting)

116. HADOOP-1564. Add unit tests for HDFS block-level checksums.

(Dhruba Borthakur via cutting)

117. HADOOP-1620. Reduce the number of abstract FileSystem methods,

simplifying implementations. (cutting)

118. HADOOP-1625. Fix a "could not move files" exception in datanode.

(Raghu Angadi via cutting)

119. HADOOP-1624. Fix an infinite loop in datanode. (Raghu Angadi via cutting)

120. HADOOP-1084. Switch mapred file cache to use file modification

time instead of checksum to detect file changes, as checksums are

no longer easily accessed. (Arun C Murthy via cutting)

130. HADOOP-1623. Fix an infinite loop when copying directories.

(Dhruba Borthakur via cutting)

131. HADOOP-1603. Fix a bug in namenode initialization where

default replication is sometimes reset to one on restart.

(Raghu Angadi via cutting)

132. HADOOP-1635. Remove hardcoded keypair name and fix launch-hadoop-cluster

to support later versions of ec2-api-tools. (Stu Hood via tomwhite)

133. HADOOP-1638. Fix contrib EC2 scripts to support NAT addressing.

(Stu Hood via tomwhite)

134. HADOOP-1632. Fix an IllegalArgumentException in fsck.

(Hairong Kuang via cutting)

135. HADOOP-1619. Fix FSInputChecker to not attempt to read past EOF.

(Hairong Kuang via cutting)

136. HADOOP-1640. Fix TestDecommission on Windows.

(Dhruba Borthakur via cutting)

137. HADOOP-1587. Fix TestSymLink to get required system properties.

(Devaraj Das via omalley)

138. HADOOP-1628. Add block CRC protocol unit tests. (Raghu Angadi via omalley)

139. HADOOP-1653. FSDirectory code-cleanups. FSDirectory.INode

becomes a static class. (Christophe Taton via dhruba)

140. HADOOP-1066. Restructure documentation to make more user

friendly. (Connie Kleinjans and Jeff Hammerbacher via cutting)

141. HADOOP-1551. libhdfs supports setting replication factor and

retrieving modification time of files. (Sameer Paranjpye via dhruba)

141. HADOOP-1647. FileSystem.getFileStatus returns valid values for "/".

(Dhruba Borthakur via dhruba)

142. HADOOP-1657. Fix NNBench to ensure that the block size is a

multiple of bytes.per.checksum. (Raghu Angadi via dhruba)

143. HADOOP-1553. Replace user task output and log capture code to use shell

redirection instead of copier threads in the TaskTracker. Capping the

size of the output is now done via tail in memory and thus should not be

large. The output of the tasklog servlet is not forced into UTF8 and is

not buffered entirely in memory. (omalley)

Configuration changes to hadoop-default.xml:

remove mapred.userlog.num.splits

remove mapred.userlog.purge.splits

change default mapred.userlog.limit.kb to 0 (no limit)

change default mapred.userlog.retain.hours to 24

Configuration changes to log4j.properties:

remove log4j.appender.TLA.noKeepSplits

remove log4j.appender.TLA.purgeLogSplits

remove log4j.appender.TLA.logsRetainHours

URL changes:

http://<tasktracker>/tasklog.jsp -> http://<tasktracker>tasklog with

parameters limited to start and end, which may be positive (from

start) or negative (from end).

Environment:

require bash (v2 or later) and tail

144. HADOOP-1659. Fix a job id/job name mixup. (Arun C. Murthy via omalley)

145. HADOOP-1665. With HDFS Trash enabled and the same file was created

and deleted more than once, the suceeding deletions creates Trash item

names suffixed with a integer. (Dhruba Borthakur via dhruba)

146. HADOOP-1666. FsShell object can be used for multiple fs commands.

(Dhruba Borthakur via dhruba)

147. HADOOP-1654. Remove performance regression introduced by Block CRC.

(Raghu Angadi via dhruba)

148. HADOOP-1680. Improvements to Block CRC upgrade messages.

(Raghu Angadi via dhruba)

149. HADOOP-71. Allow Text and SequenceFile Map/Reduce inputs from non-default

filesystems. (omalley)

150. HADOOP-1568. Expose HDFS as xml/http filesystem to provide cross-version

compatability. (Chris Douglas via omalley)

151. HADOOP-1668. Added an INCOMPATIBILITY section to CHANGES.txt. (nigel)

152. HADOOP-1629. Added a upgrade test for HADOOP-1134.

(Raghu Angadi via nigel)

153. HADOOP-1698. Fix performance problems on map output sorting for jobs

with large numbers of reduces. (Devaraj Das via omalley)

154. HADOOP-1716. Fix a Pipes wordcount example to remove the 'file:'

schema from its output path. (omalley via cutting)

155. HADOOP-1714. Fix TestDFSUpgradeFromImage to work on Windows.

(Raghu Angadi via nigel)

156. HADOOP-1663. Return a non-zero exit code if streaming fails. (Lohit Renu

via omalley)

157. HADOOP-1712. Fix an unhandled exception on datanode during block

CRC upgrade. (Raghu Angadi via cutting)

158. HADOOP-1717. Fix TestDFSUpgradeFromImage to work on Solaris.

(nigel via cutting)

159. HADOOP-1437. Add Eclipse plugin in contrib.

(Eugene Hung and Christophe Taton via cutting)

Release 0.13.0 - 2007-06-08

1. HADOOP-1047. Fix TestReplication to succeed more reliably.

(Hairong Kuang via cutting)

2. HADOOP-1063. Fix a race condition in MiniDFSCluster test code.

(Hairong Kuang via cutting)

3. HADOOP-1101. In web ui, split shuffle statistics from reduce

statistics, and add some task averages. (Devaraj Das via cutting)

4. HADOOP-1071. Improve handling of protocol version mismatch in

JobTracker. (Tahir Hashmi via cutting)

5. HADOOP-1116. Increase heap size used for contrib unit tests.

(Philippe Gassmann via cutting)

6. HADOOP-1120. Add contrib/data\_join, tools to simplify joining

data from multiple sources using MapReduce. (Runping Qi via cutting)

7. HADOOP-1064. Reduce log level of some DFSClient messages.

(Dhruba Borthakur via cutting)

8. HADOOP-1137. Fix StatusHttpServer to work correctly when

resources are in a jar file. (Benjamin Reed via cutting)

9. HADOOP-1094. Optimize generated Writable implementations for

records to not allocate a new BinaryOutputArchive or

BinaryInputArchive per call. (Milind Bhandarkar via cutting)

10. HADOOP-1068. Improve error message for clusters with 0 datanodes.

(Dhruba Borthakur via tomwhite)

11. HADOOP-1122. Fix divide-by-zero exception in FSNamesystem

chooseTarget method. (Dhruba Borthakur via tomwhite)

12. HADOOP-1131. Add a closeAll() static method to FileSystem.

(Philippe Gassmann via tomwhite)

13. HADOOP-1085. Improve port selection in HDFS and MapReduce test

code. Ports are now selected by the OS during testing rather than

by probing for free ports, improving test reliability.

(Arun C Murthy via cutting)

14. HADOOP-1153. Fix HDFS daemons to correctly stop their threads.

(Konstantin Shvachko via cutting)

15. HADOOP-1146. Add a counter for reduce input keys and rename the

"reduce input records" counter to be "reduce input groups".

(David Bowen via cutting)

16. HADOOP-1165. In records, replace idential generated toString

methods with a method on the base class. (Milind Bhandarkar via cutting)

17. HADOOP-1164. Fix TestReplicationPolicy to specify port zero, so

that a free port is automatically selected. (omalley via cutting)

18. HADOOP-1166. Add a NullOutputFormat and use it in the

RandomWriter example. (omalley via cutting)

19. HADOOP-1169. Fix a cut/paste error in CopyFiles utility so that

S3-based source files are correctly copied. (Michael Stack via cutting)

20. HADOOP-1167. Remove extra synchronization in InMemoryFileSystem.

(omalley via cutting)

21. HADOOP-1110. Fix an off-by-one error counting map inputs.

(David Bowen via cutting)

22. HADOOP-1178. Fix a NullPointerException during namenode startup.

(Dhruba Borthakur via cutting)

23. HADOOP-1011. Fix a ConcurrentModificationException when viewing

job history. (Tahir Hashmi via cutting)

24. HADOOP-672. Improve help for fs shell commands.

(Dhruba Borthakur via cutting)

25. HADOOP-1170. Improve datanode performance by removing device

checks from common operations. (Igor Bolotin via cutting)

26. HADOOP-1090. Fix SortValidator's detection of whether the input

file belongs to the sort-input or sort-output directory.

(Arun C Murthy via tomwhite)

27. HADOOP-1081. Fix bin/hadoop on Darwin. (Michael Bieniosek via cutting)

28. HADOOP-1045. Add contrib/hbase, a BigTable-like online database.

(Jim Kellerman via cutting)

29. HADOOP-1156. Fix a NullPointerException in MiniDFSCluster.

(Hairong Kuang via cutting)

30. HADOOP-702. Add tools to help automate HDFS upgrades.

(Konstantin Shvachko via cutting)

31. HADOOP-1163. Fix ganglia metrics to aggregate metrics from different

hosts properly. (Michael Bieniosek via tomwhite)

32. HADOOP-1194. Make compression style record level for map output

compression. (Arun C Murthy via tomwhite)

33. HADOOP-1187. Improve DFS Scalability: avoid scanning entire list of

datanodes in getAdditionalBlocks. (Dhruba Borthakur via tomwhite)

34. HADOOP-1133. Add tool to analyze and debug namenode on a production

cluster. (Dhruba Borthakur via tomwhite)

35. HADOOP-1151. Remove spurious printing to stderr in streaming

PipeMapRed. (Koji Noguchi via tomwhite)

36. HADOOP-988. Change namenode to use a single map of blocks to metadata.

(Raghu Angadi via tomwhite)

37. HADOOP-1203. Change UpgradeUtilities used by DFS tests to use

MiniDFSCluster to start and stop NameNode/DataNodes.

(Nigel Daley via tomwhite)

38. HADOOP-1217. Add test.timeout property to build.xml, so that

long-running unit tests may be automatically terminated.

(Nigel Daley via cutting)

39. HADOOP-1149. Improve DFS Scalability: make

processOverReplicatedBlock() a no-op if blocks are not

over-replicated. (Raghu Angadi via tomwhite)

40. HADOOP-1149. Improve DFS Scalability: optimize getDistance(),

contains(), and isOnSameRack() in NetworkTopology.

(Hairong Kuang via tomwhite)

41. HADOOP-1218. Make synchronization on TaskTracker's RunningJob

object consistent. (Devaraj Das via tomwhite)

42. HADOOP-1219. Ignore progress report once a task has reported as

'done'. (Devaraj Das via tomwhite)

43. HADOOP-1114. Permit user to specify additional CLASSPATH elements

with a HADOOP\_CLASSPATH environment variable. (cutting)

44. HADOOP-1198. Remove ipc.client.timeout parameter override from

unit test configuration. Using the default is more robust and

has almost the same run time. (Arun C Murthy via tomwhite)

45. HADOOP-1211. Remove deprecated constructor and unused static

members in DataNode class. (Konstantin Shvachko via tomwhite)

46. HADOOP-1136. Fix ArrayIndexOutOfBoundsException in

FSNamesystem$UnderReplicatedBlocks add() method.

(Hairong Kuang via tomwhite)

47. HADOOP-978. Add the client name and the address of the node that

previously started to create the file to the description of

AlreadyBeingCreatedException. (Konstantin Shvachko via tomwhite)

48. HADOOP-1001. Check the type of keys and values generated by the

mapper against the types specified in JobConf.

(Tahir Hashmi via tomwhite)

49. HADOOP-971. Improve DFS Scalability: Improve name node performance

by adding a hostname to datanodes map. (Hairong Kuang via tomwhite)

50. HADOOP-1189. Fix 'No space left on device' exceptions on datanodes.

(Raghu Angadi via tomwhite)

51. HADOOP-819. Change LineRecordWriter to not insert a tab between

key and value when either is null, and to print nothing when both

are null. (Runping Qi via cutting)

52. HADOOP-1204. Rename InputFormatBase to be FileInputFormat, and

deprecate InputFormatBase. Also make LineRecordReader easier to

extend. (Runping Qi via cutting)

53. HADOOP-1213. Improve logging of errors by IPC server, to

consistently include the service name and the call. (cutting)

54. HADOOP-1238. Fix metrics reporting by TaskTracker to correctly

track maps\_running and reduces\_running.

(Michael Bieniosek via cutting)

55. HADOOP-1093. Fix a race condition in HDFS where blocks were

sometimes erased before they were reported written.

(Dhruba Borthakur via cutting)

56. HADOOP-1239. Add a package name to some testjar test classes.

(Jim Kellerman via cutting)

57. HADOOP-1241. Fix NullPointerException in processReport when

namenode is restarted. (Dhruba Borthakur via tomwhite)

58. HADOOP-1244. Fix stop-dfs.sh to no longer incorrectly specify

slaves file for stopping datanode.

(Michael Bieniosek via tomwhite)

59. HADOOP-1253. Fix ConcurrentModificationException and

NullPointerException in JobControl.

(Johan Oskarson via tomwhite)

60. HADOOP-1256. Fix NameNode so that multiple DataNodeDescriptors

can no longer be created on startup. (Hairong Kuang via cutting)

61. HADOOP-1214. Replace streaming classes with new counterparts

from Hadoop core. (Runping Qi via tomwhite)

62. HADOOP-1250. Move a chmod utility from streaming to FileUtil.

(omalley via cutting)

63. HADOOP-1258. Fix TestCheckpoint test case to wait for

MiniDFSCluster to be active. (Nigel Daley via tomwhite)

64. HADOOP-1148. Re-indent all Java source code to consistently use

two spaces per indent level. (cutting)

65. HADOOP-1251. Add a method to Reporter to get the map InputSplit.

(omalley via cutting)

66. HADOOP-1224. Fix "Browse the filesystem" link to no longer point

to dead datanodes. (Enis Soztutar via tomwhite)

67. HADOOP-1154. Fail a streaming task if the threads reading from or

writing to the streaming process fail. (Koji Noguchi via tomwhite)

68. HADOOP-968. Move shuffle and sort to run in reduce's child JVM,

rather than in TaskTracker. (Devaraj Das via cutting)

69. HADOOP-1111. Add support for client notification of job

completion. If the job configuration has a job.end.notification.url

property it will make a HTTP GET request to the specified URL.

The number of retries and the interval between retries is also

configurable. (Alejandro Abdelnur via tomwhite)

70. HADOOP-1275. Fix misspelled job notification property in

hadoop-default.xml. (Alejandro Abdelnur via tomwhite)

71. HADOOP-1152. Fix race condition in MapOutputCopier.copyOutput file

rename causing possible reduce task hang.

(Tahir Hashmi via tomwhite)

72. HADOOP-1050. Distinguish between failed and killed tasks so as to

not count a lost tasktracker against the job.

(Arun C Murthy via tomwhite)

73. HADOOP-1271. Fix StreamBaseRecordReader to be able to log record

data that's not UTF-8. (Arun C Murthy via tomwhite)

74. HADOOP-1190. Fix unchecked warnings in main Hadoop code.

(tomwhite)

75. HADOOP-1127. Fix AlreadyBeingCreatedException in namenode for

jobs run with speculative execution.

(Arun C Murthy via tomwhite)

76. HADOOP-1282. Omnibus HBase patch. Improved tests & configuration.

(Jim Kellerman via cutting)

77. HADOOP-1262. Make dfs client try to read from a different replica

of the checksum file when a checksum error is detected.

(Hairong Kuang via tomwhite)

78. HADOOP-1279. Fix JobTracker to maintain list of recently

completed jobs by order of completion, not submission.

(Arun C Murthy via cutting)

79. HADOOP-1284. In contrib/streaming, permit flexible specification

of field delimiter and fields for partitioning and sorting.

(Runping Qi via cutting)

80. HADOOP-1176. Fix a bug where reduce would hang when a map had

more than 2GB of output for it. (Arun C Murthy via cutting)

81. HADOOP-1293. Fix contrib/streaming to print more than the first

twenty lines of standard error. (Koji Noguchi via cutting)

82. HADOOP-1297. Fix datanode so that requests to remove blocks that

do not exist no longer causes block reports to be re-sent every

second. (Dhruba Borthakur via cutting)

83. HADOOP-1216. Change MapReduce so that, when numReduceTasks is

zero, map outputs are written directly as final output, skipping

shuffle, sort and reduce. Use this to implement reduce=NONE

option in contrib/streaming. (Runping Qi via cutting)

84. HADOOP-1294. Fix unchecked warnings in main Hadoop code under

Java 6. (tomwhite)

85. HADOOP-1299. Fix so that RPC will restart after RPC.stopClient()

has been called. (Michael Stack via cutting)

86. HADOOP-1278. Improve blacklisting of TaskTrackers by JobTracker,

to reduce false positives. (Arun C Murthy via cutting)

87. HADOOP-1290. Move contrib/abacus into mapred/lib/aggregate.

(Runping Qi via cutting)

88. HADOOP-1272. Extract inner classes from FSNamesystem into separate

classes. (Dhruba Borthakur via tomwhite)

89. HADOOP-1247. Add support to contrib/streaming for aggregate

package, formerly called Abacus. (Runping Qi via cutting)

90. HADOOP-1061. Fix bug in listing files in the S3 filesystem.

NOTE: this change is not backwards compatible! You should use the

MigrationTool supplied to migrate existing S3 filesystem data to

the new format. Please backup your data first before upgrading

(using 'hadoop distcp' for example). (tomwhite)

91. HADOOP-1304. Make configurable the maximum number of task

attempts before a job fails. (Devaraj Das via cutting)

92. HADOOP-1308. Use generics to restrict types when classes are

passed as parameters to JobConf methods. (Michael Bieniosek via cutting)

93. HADOOP-1312. Fix a ConcurrentModificationException in NameNode

that killed the heartbeat monitoring thread.

(Dhruba Borthakur via cutting)

94. HADOOP-1315. Clean up contrib/streaming, switching it to use core

classes more and removing unused code. (Runping Qi via cutting)

95. HADOOP-485. Allow a different comparator for grouping keys in

calls to reduce. (Tahir Hashmi via cutting)

96. HADOOP-1322. Fix TaskTracker blacklisting to work correctly in

one- and two-node clusters. (Arun C Murthy via cutting)

97. HADOOP-1144. Permit one to specify a maximum percentage of tasks

that can fail before a job is aborted. The default is zero.

(Arun C Murthy via cutting)

98. HADOOP-1184. Fix HDFS decomissioning to complete when the only

copy of a block is on a decommissioned node. (Dhruba Borthakur via cutting)

99. HADOOP-1263. Change DFSClient to retry certain namenode calls

with a random, exponentially increasing backoff time, to avoid

overloading the namenode on, e.g., job start. (Hairong Kuang via cutting)

100. HADOOP-1325. First complete, functioning version of HBase.

(Jim Kellerman via cutting)

101. HADOOP-1276. Make tasktracker expiry interval configurable.

(Arun C Murthy via cutting)

102. HADOOP-1326. Change JobClient#RunJob() to return the job.

(omalley via cutting)

103. HADOOP-1270. Randomize the fetch of map outputs, speeding the

shuffle. (Arun C Murthy via cutting)

104. HADOOP-1200. Restore disk checking lost in HADOOP-1170.

(Hairong Kuang via cutting)

105. HADOOP-1252. Changed MapReduce's allocation of local files to

use round-robin among available devices, rather than a hashcode.

More care is also taken to not allocate files on full or offline

drives. (Devaraj Das via cutting)

106. HADOOP-1324. Change so that an FSError kills only the task that

generates it rather than the entire task tracker.

(Arun C Murthy via cutting)

107. HADOOP-1310. Fix unchecked warnings in aggregate code. (tomwhite)

108. HADOOP-1255. Fix a bug where the namenode falls into an infinite

loop trying to remove a dead node. (Hairong Kuang via cutting)

109. HADOOP-1160. Fix DistributedFileSystem.close() to close the

underlying FileSystem, correctly aborting files being written.

(Hairong Kuang via cutting)

110. HADOOP-1341. Fix intermittent failures in HBase unit tests

caused by deadlock. (Jim Kellerman via cutting)

111. HADOOP-1350. Fix shuffle performance problem caused by forcing

chunked encoding of map outputs. (Devaraj Das via cutting)

112. HADOOP-1345. Fix HDFS to correctly retry another replica when a

checksum error is encountered. (Hairong Kuang via cutting)

113. HADOOP-1205. Improve synchronization around HDFS block map.

(Hairong Kuang via cutting)

114. HADOOP-1353. Fix a potential NullPointerException in namenode.

(Dhruba Borthakur via cutting)

115. HADOOP-1354. Fix a potential NullPointerException in FsShell.

(Hairong Kuang via cutting)

116. HADOOP-1358. Fix a potential bug when DFSClient calls skipBytes.

(Hairong Kuang via cutting)

117. HADOOP-1356. Fix a bug in ValueHistogram. (Runping Qi via cutting)

118. HADOOP-1363. Fix locking bug in JobClient#waitForCompletion().

(omalley via cutting)

119. HADOOP-1368. Fix inconsistent synchronization in JobInProgress.

(omalley via cutting)

120. HADOOP-1369. Fix inconsistent synchronization in TaskTracker.

(omalley via cutting)

121. HADOOP-1361. Fix various calls to skipBytes() to check return

value. (Hairong Kuang via cutting)

122. HADOOP-1388. Fix a potential NullPointerException in web ui.

(Devaraj Das via cutting)

123. HADOOP-1385. Fix MD5Hash#hashCode() to generally hash to more

than 256 values. (omalley via cutting)

124. HADOOP-1386. Fix Path to not permit the empty string as a

path, as this has lead to accidental file deletion. Instead

force applications to use "." to name the default directory.

(Hairong Kuang via cutting)

125. HADOOP-1407. Fix integer division bug in JobInProgress which

meant failed tasks didn't cause the job to fail.

(Arun C Murthy via tomwhite)

126. HADOOP-1427. Fix a typo that caused GzipCodec to incorrectly use

a very small input buffer. (Espen Amble Kolstad via cutting)

127. HADOOP-1435. Fix globbing code to no longer use the empty string

to indicate the default directory, per HADOOP-1386.

(Hairong Kuang via cutting)

128. HADOOP-1411. Make task retry framework handle

AlreadyBeingCreatedException when wrapped as a RemoteException.

(Hairong Kuang via tomwhite)

129. HADOOP-1242. Improve handling of DFS upgrades.

(Konstantin Shvachko via cutting)

130. HADOOP-1332. Fix so that TaskTracker exits reliably during unit

tests on Windows. (omalley via cutting)

131. HADOOP-1431. Fix so that sort progress reporting during map runs

only while sorting, so that stuck maps are correctly terminated.

(Devaraj Das and Arun C Murthy via cutting)

132. HADOOP-1452. Change TaskTracker.MapOutputServlet.doGet.totalRead

to a long, permitting map outputs to exceed 2^31 bytes.

(omalley via cutting)

133. HADOOP-1443. Fix a bug opening zero-length files in HDFS.

(Konstantin Shvachko via cutting)

Release 0.12.3 - 2007-04-06

1. HADOOP-1162. Fix bug in record CSV and XML serialization of

binary values. (Milind Bhandarkar via cutting)

2. HADOOP-1123. Fix NullPointerException in LocalFileSystem when

trying to recover from a checksum error.

(Hairong Kuang & Nigel Daley via tomwhite)

3. HADOOP-1177. Fix bug where IOException in MapOutputLocation.getFile

was not being logged. (Devaraj Das via tomwhite)

4. HADOOP-1175. Fix bugs in JSP for displaying a task's log messages.

(Arun C Murthy via cutting)

5. HADOOP-1191. Fix map tasks to wait until sort progress thread has

stopped before reporting the task done. (Devaraj Das via cutting)

6. HADOOP-1192. Fix an integer overflow bug in FSShell's 'dus'

command and a performance problem in HDFS's implementation of it.

(Hairong Kuang via cutting)

7. HADOOP-1105. Fix reducers to make "progress" while iterating

through values. (Devaraj Das & Owen O'Malley via tomwhite)

8. HADOOP-1179. Make Task Tracker close index file as soon as the read

is done when serving get-map-output requests.

(Devaraj Das via tomwhite)

Release 0.12.2 - 2007-23-17

1. HADOOP-1135. Fix bug in block report processing which may cause

the namenode to delete blocks. (Dhruba Borthakur via tomwhite)

2. HADOOP-1145. Make XML serializer and deserializer classes public

in record package. (Milind Bhandarkar via cutting)

3. HADOOP-1140. Fix a deadlock in metrics. (David Bowen via cutting)

4. HADOOP-1150. Fix streaming -reducer and -mapper to give them

defaults. (Owen O'Malley via tomwhite)

Release 0.12.1 - 2007-03-17

1. HADOOP-1035. Fix a StackOverflowError in FSDataSet.

(Raghu Angadi via cutting)

2. HADOOP-1053. Fix VInt representation of negative values. Also

remove references in generated record code to methods outside of

the record package and improve some record documentation.

(Milind Bhandarkar via cutting)

3. HADOOP-1067. Compile fails if Checkstyle jar is present in lib

directory. Also remove dependency on a particular Checkstyle

version number. (tomwhite)

4. HADOOP-1060. Fix an IndexOutOfBoundsException in the JobTracker

that could cause jobs to hang. (Arun C Murthy via cutting)

5. HADOOP-1077. Fix a race condition fetching map outputs that could

hang reduces. (Devaraj Das via cutting)

6. HADOOP-1083. Fix so that when a cluster restarts with a missing

datanode, its blocks are replicated. (Hairong Kuang via cutting)

7. HADOOP-1082. Fix a NullPointerException in ChecksumFileSystem.

(Hairong Kuang via cutting)

8. HADOOP-1088. Fix record serialization of negative values.

(Milind Bhandarkar via cutting)

9. HADOOP-1080. Fix bug in bin/hadoop on Windows when native

libraries are present. (ab via cutting)

10. HADOOP-1091. Fix a NullPointerException in MetricsRecord.

(David Bowen via tomwhite)

11. HADOOP-1092. Fix a NullPointerException in HeartbeatMonitor

thread. (Hairong Kuang via tomwhite)

12. HADOOP-1112. Fix a race condition in Hadoop metrics.

(David Bowen via tomwhite)

13. HADOOP-1108. Checksummed file system should retry reading if a

different replica is found when handling ChecksumException.

(Hairong Kuang via tomwhite)

14. HADOOP-1070. Fix a problem with number of racks and datanodes

temporarily doubling. (Konstantin Shvachko via tomwhite)

15. HADOOP-1099. Fix NullPointerException in JobInProgress.

(Gautam Kowshik via tomwhite)

16. HADOOP-1115. Fix bug where FsShell copyToLocal doesn't

copy directories. (Hairong Kuang via tomwhite)

17. HADOOP-1109. Fix NullPointerException in StreamInputFormat.

(Koji Noguchi via tomwhite)

18. HADOOP-1117. Fix DFS scalability: when the namenode is

restarted it consumes 80% CPU. (Dhruba Borthakur via

tomwhite)

19. HADOOP-1089. Make the C++ version of write and read v-int

agree with the Java versions. (Milind Bhandarkar via

tomwhite)

20. HADOOP-1096. Rename InputArchive and OutputArchive and

make them public. (Milind Bhandarkar via tomwhite)

21. HADOOP-1128. Fix missing progress information in map tasks.

(Espen Amble Kolstad, Andrzej Bialecki, and Owen O'Malley

via tomwhite)

22. HADOOP-1129. Fix DFSClient to not hide IOExceptions in

flush method. (Hairong Kuang via tomwhite)

23. HADOOP-1126. Optimize CPU usage for under replicated blocks

when cluster restarts. (Hairong Kuang via tomwhite)

Release 0.12.0 - 2007-03-02

1. HADOOP-975. Separate stdout and stderr from tasks.

(Arun C Murthy via cutting)

2. HADOOP-982. Add some setters and a toString() method to

BytesWritable. (omalley via cutting)

3. HADOOP-858. Move contrib/smallJobsBenchmark to src/test, removing

obsolete bits. (Nigel Daley via cutting)

4. HADOOP-992. Fix MiniMR unit tests to use MiniDFS when specified,

rather than the local FS. (omalley via cutting)

5. HADOOP-954. Change use of metrics to use callback mechanism.

Also rename utility class Metrics to MetricsUtil.

(David Bowen & Nigel Daley via cutting)

6. HADOOP-893. Improve HDFS client's handling of dead datanodes.

The set is no longer reset with each block, but rather is now

maintained for the life of an open file. (Raghu Angadi via cutting)

7. HADOOP-882. Upgrade to jets3t version 0.5, used by the S3

FileSystem. This version supports retries. (Michael Stack via cutting)

8. HADOOP-977. Send task's stdout and stderr to JobClient's stdout

and stderr respectively, with each line tagged by the task's name.

(Arun C Murthy via cutting)

9. HADOOP-761. Change unit tests to not use /tmp. (Nigel Daley via cutting)

10. HADOOP-1007. Make names of metrics used in Hadoop unique.

(Nigel Daley via cutting)

11. HADOOP-491. Change mapred.task.timeout to be per-job, and make a

value of zero mean no timeout. Also change contrib/streaming to

disable task timeouts. (Arun C Murthy via cutting)

12. HADOOP-1010. Add Reporter.NULL, a Reporter implementation that

does nothing. (Runping Qi via cutting)

13. HADOOP-923. In HDFS NameNode, move replication computation to a

separate thread, to improve heartbeat processing time.

(Dhruba Borthakur via cutting)

14. HADOOP-476. Rewrite contrib/streaming command-line processing,

improving parameter validation. (Sanjay Dahiya via cutting)

15. HADOOP-973. Improve error messages in Namenode. This should help

to track down a problem that was appearing as a

NullPointerException. (Dhruba Borthakur via cutting)

16. HADOOP-649. Fix so that jobs with no tasks are not lost.

(Thomas Friol via cutting)

17. HADOOP-803. Reduce memory use by HDFS namenode, phase I.

(Raghu Angadi via cutting)

18. HADOOP-1021. Fix MRCaching-based unit tests on Windows.

(Nigel Daley via cutting)

19. HADOOP-889. Remove duplicate code from HDFS unit tests.

(Milind Bhandarkar via cutting)

20. HADOOP-943. Improve HDFS's fsck command to display the filename

for under-replicated blocks. (Dhruba Borthakur via cutting)

21. HADOOP-333. Add validator for sort benchmark output.

(Arun C Murthy via cutting)

22. HADOOP-947. Improve performance of datanode decomissioning.

(Dhruba Borthakur via cutting)

23. HADOOP-442. Permit one to specify hosts allowed to connect to

namenode and jobtracker with include and exclude files. (Wendy

Chien via cutting)

24. HADOOP-1017. Cache constructors, for improved performance.

(Ron Bodkin via cutting)

25. HADOOP-867. Move split creation out of JobTracker to client.

Splits are now saved in a separate file, read by task processes

directly, so that user code is no longer required in the

JobTracker. (omalley via cutting)

26. HADOOP-1006. Remove obsolete '-local' option from test code.

(Gautam Kowshik via cutting)

27. HADOOP-952. Create a public (shared) Hadoop EC2 AMI.

The EC2 scripts now support launch of public AMIs.

(tomwhite)

28. HADOOP-1025. Remove some obsolete code in ipc.Server. (cutting)

29. HADOOP-997. Implement S3 retry mechanism for failed block

transfers. This includes a generic retry mechanism for use

elsewhere in Hadoop. (tomwhite)

30. HADOOP-990. Improve HDFS support for full datanode volumes.

(Raghu Angadi via cutting)

31. HADOOP-564. Replace uses of "dfs://" URIs with the more standard

"hdfs://". (Wendy Chien via cutting)

32. HADOOP-1030. In unit tests, unify setting of ipc.client.timeout.

Also increase the value used from one to two seconds, in hopes of

making tests complete more reliably. (cutting)

33. HADOOP-654. Stop assigning tasks to a tasktracker if it has

failed more than a specified number in the job.

(Arun C Murthy via cutting)

34. HADOOP-985. Change HDFS to identify nodes by IP address rather

than by DNS hostname. (Raghu Angadi via cutting)

35. HADOOP-248. Optimize location of map outputs to not use random

probes. (Devaraj Das via cutting)

36. HADOOP-1029. Fix streaming's input format to correctly seek to

the start of splits. (Arun C Murthy via cutting)

37. HADOOP-492. Add per-job and per-task counters. These are

incremented via the Reporter interface and available through the

web ui and the JobClient API. The mapreduce framework maintains a

few basic counters, and applications may add their own. Counters

are also passed to the metrics system.

(David Bowen via cutting)

38. HADOOP-1034. Fix datanode to better log exceptions.

(Philippe Gassmann via cutting)

39. HADOOP-878. In contrib/streaming, fix reducer=NONE to work with

multiple maps. (Arun C Murthy via cutting)

40. HADOOP-1039. In HDFS's TestCheckpoint, avoid restarting

MiniDFSCluster so often, speeding this test. (Dhruba Borthakur via cutting)

41. HADOOP-1040. Update RandomWriter example to use counters and

user-defined input and output formats. (omalley via cutting)

42. HADOOP-1027. Fix problems with in-memory merging during shuffle

and re-enable this optimization. (Devaraj Das via cutting)

43. HADOOP-1036. Fix exception handling in TaskTracker to keep tasks

from being lost. (Arun C Murthy via cutting)

44. HADOOP-1042. Improve the handling of failed map output fetches.

(Devaraj Das via cutting)

45. HADOOP-928. Make checksums optional per FileSystem.

(Hairong Kuang via cutting)

46. HADOOP-1044. Fix HDFS's TestDecommission to not spuriously fail.

(Wendy Chien via cutting)

47. HADOOP-972. Optimize HDFS's rack-aware block placement algorithm.

(Hairong Kuang via cutting)

48. HADOOP-1043. Optimize shuffle, increasing parallelism.

(Devaraj Das via cutting)

49. HADOOP-940. Improve HDFS's replication scheduling.

(Dhruba Borthakur via cutting)

50. HADOOP-1020. Fix a bug in Path resolution, and a with unit tests

on Windows. (cutting)

51. HADOOP-941. Enhance record facility.

(Milind Bhandarkar via cutting)

52. HADOOP-1000. Fix so that log messages in task subprocesses are

not written to a task's standard error. (Arun C Murthy via cutting)

53. HADOOP-1037. Fix bin/slaves.sh, which currently only works with

/bin/bash, to specify /bin/bash rather than /bin/sh. (cutting)

54. HADOOP-1046. Clean up tmp from partially received stale block files. (ab)

55. HADOOP-1041. Optimize mapred counter implementation. Also group

counters by their declaring Enum. (David Bowen via cutting)

56. HADOOP-1032. Permit one to specify jars that will be cached

across multiple jobs. (Gautam Kowshik via cutting)

57. HADOOP-1051. Add optional checkstyle task to build.xml. To use

this developers must download the (LGPL'd) checkstyle jar

themselves. (tomwhite via cutting)

58. HADOOP-1049. Fix a race condition in IPC client.

(Devaraj Das via cutting)

60. HADOOP-1056. Check HDFS include/exclude node lists with both IP

address and hostname. (Wendy Chien via cutting)

61. HADOOP-994. In HDFS, limit the number of blocks invalidated at

once. Large lists were causing datenodes to timeout.

(Dhruba Borthakur via cutting)

62. HADOOP-432. Add a trash feature, disabled by default. When

enabled, the FSShell 'rm' command will move things to a trash

directory in the filesystem. In HDFS, a thread periodically

checkpoints the trash and removes old checkpoints. (cutting)

Release 0.11.2 - 2007-02-16

1. HADOOP-1009. Fix an infinite loop in the HDFS namenode.

(Dhruba Borthakur via cutting)

2. HADOOP-1014. Disable in-memory merging during shuffle, as this is

causing data corruption. (Devaraj Das via cutting)

Release 0.11.1 - 2007-02-09

1. HADOOP-976. Make SequenceFile.Metadata public. (Runping Qi via cutting)

2. HADOOP-917. Fix a NullPointerException in SequenceFile's merger

with large map outputs. (omalley via cutting)

3. HADOOP-984. Fix a bug in shuffle error handling introduced by

HADOOP-331. If a map output is unavailable, the job tracker is

once more informed. (Arun C Murthy via cutting)

4. HADOOP-987. Fix a problem in HDFS where blocks were not removed

from neededReplications after a replication target was selected.

(Hairong Kuang via cutting)

Release 0.11.0 - 2007-02-02

1. HADOOP-781. Remove methods deprecated in 0.10 that are no longer

widely used. (cutting)

2. HADOOP-842. Change HDFS protocol so that the open() method is

passed the client hostname, to permit the namenode to order block

locations on the basis of network topology.

(Hairong Kuang via cutting)

3. HADOOP-852. Add an ant task to compile record definitions, and

use it to compile record unit tests. (Milind Bhandarkar via cutting)

4. HADOOP-757. Fix "Bad File Descriptor" exception in HDFS client

when an output file is closed twice. (Raghu Angadi via cutting)

5. [ intentionally blank ]

6. HADOOP-890. Replace dashes in metric names with underscores,

for better compatibility with some monitoring systems.

(Nigel Daley via cutting)

7. HADOOP-801. Add to jobtracker a log of task completion events.

(Sanjay Dahiya via cutting)

8. HADOOP-855. In HDFS, try to repair files with checksum errors.

An exception is still thrown, but corrupt blocks are now removed

when they have replicas. (Wendy Chien via cutting)

9. HADOOP-886. Reduce number of timer threads created by metrics API

by pooling contexts. (Nigel Daley via cutting)

10. HADOOP-897. Add a "javac.args" property to build.xml that permits

one to pass arbitrary options to javac. (Milind Bhandarkar via cutting)

11. HADOOP-899. Update libhdfs for changes in HADOOP-871.

(Sameer Paranjpye via cutting)

12. HADOOP-905. Remove some dead code from JobClient. (cutting)

13. HADOOP-902. Fix a NullPointerException in HDFS client when

closing output streams. (Raghu Angadi via cutting)

14. HADOOP-735. Switch generated record code to use BytesWritable to

represent fields of type 'buffer'. (Milind Bhandarkar via cutting)

15. HADOOP-830. Improve mapreduce merge performance by buffering and

merging multiple map outputs as they arrive at reduce nodes before

they're written to disk. (Devaraj Das via cutting)

16. HADOOP-908. Add a new contrib package, Abacus, that simplifies

counting and aggregation, built on MapReduce. (Runping Qi via cutting)

17. HADOOP-901. Add support for recursive renaming to the S3 filesystem.

(Tom White via cutting)

18. HADOOP-912. Fix a bug in TaskTracker.isIdle() that was

sporadically causing unit test failures. (Arun C Murthy via cutting)

19. HADOOP-909. Fix the 'du' command to correctly compute the size of

FileSystem directory trees. (Hairong Kuang via cutting)

20. HADOOP-731. When a checksum error is encountered on a file stored

in HDFS, try another replica of the data, if any.

(Wendy Chien via cutting)

21. HADOOP-732. Add support to SequenceFile for arbitrary metadata,

as a set of attribute value pairs. (Runping Qi via cutting)

22. HADOOP-929. Fix PhasedFileSystem to pass configuration to

underlying FileSystem. (Sanjay Dahiya via cutting)

23. HADOOP-935. Fix contrib/abacus to not delete pre-existing output

files, but rather to fail in this case. (Runping Qi via cutting)

24. HADOOP-936. More metric renamings, as in HADOOP-890.

(Nigel Daley via cutting)

25. HADOOP-856. Fix HDFS's fsck command to not report that

non-existent filesystems are healthy. (Milind Bhandarkar via cutting)

26. HADOOP-602. Remove the dependency on Lucene's PriorityQueue

utility, by copying it into Hadoop. This facilitates using Hadoop

with different versions of Lucene without worrying about CLASSPATH

order. (Milind Bhandarkar via cutting)

27. [ intentionally blank ]

28. HADOOP-227. Add support for backup namenodes, which periodically

get snapshots of the namenode state. (Dhruba Borthakur via cutting)

29. HADOOP-884. Add scripts in contrib/ec2 to facilitate running

Hadoop on an Amazon's EC2 cluster. (Tom White via cutting)

30. HADOOP-937. Change the namenode to request re-registration of

datanodes in more circumstances. (Hairong Kuang via cutting)

31. HADOOP-922. Optimize small forward seeks in HDFS. If data is has

likely already in flight, skip ahead rather than re-opening the

block. (Dhruba Borthakur via cutting)

32. HADOOP-961. Add a 'job -events' sub-command that prints job

events, including task completions and failures. (omalley via cutting)

33. HADOOP-959. Fix namenode snapshot code added in HADOOP-227 to

work on Windows. (Dhruba Borthakur via cutting)

34. HADOOP-934. Fix TaskTracker to catch metrics exceptions that were

causing heartbeats to fail. (Arun Murthy via cutting)

35. HADOOP-881. Fix JobTracker web interface to display the correct

number of task failures. (Sanjay Dahiya via cutting)

36. HADOOP-788. Change contrib/streaming to subclass TextInputFormat,

permitting it to take advantage of native compression facilities.

(Sanjay Dahiya via cutting)

37. HADOOP-962. In contrib/ec2: make scripts executable in tar file;

add a README; make the environment file use a template.

(Tom White via cutting)

38. HADOOP-549. Fix a NullPointerException in TaskReport's

serialization. (omalley via cutting)

39. HADOOP-963. Fix remote exceptions to have the stack trace of the

caller thread, not the IPC listener thread. (omalley via cutting)

40. HADOOP-967. Change RPC clients to start sending a version header.

(omalley via cutting)

41. HADOOP-964. Fix a bug introduced by HADOOP-830 where jobs failed

whose comparators and/or i/o types were in the job's jar.

(Dennis Kubes via cutting)

42. HADOOP-969. Fix a deadlock in JobTracker. (omalley via cutting)

43. HADOOP-862. Add support for the S3 FileSystem to the CopyFiles

tool. (Michael Stack via cutting)

44. HADOOP-965. Fix IsolationRunner so that job's jar can be found.

(Dennis Kubes via cutting)

45. HADOOP-309. Fix two NullPointerExceptions in StatusHttpServer.

(navychen via cutting)

46. HADOOP-692. Add rack awareness to HDFS's placement of blocks.

(Hairong Kuang via cutting)

Release 0.10.1 - 2007-01-10

1. HADOOP-857. Fix S3 FileSystem implementation to permit its use

for MapReduce input and output. (Tom White via cutting)

2. HADOOP-863. Reduce logging verbosity introduced by HADOOP-813.

(Devaraj Das via cutting)

3. HADOOP-815. Fix memory leaks in JobTracker. (Arun C Murthy via cutting)

4. HADOOP-600. Fix a race condition in JobTracker.

(Arun C Murthy via cutting)

5. HADOOP-864. Fix 'bin/hadoop -jar' to operate correctly when

hadoop.tmp.dir does not yet exist. (omalley via cutting)

6. HADOOP-866. Fix 'dfs -get' command to remove existing crc files,

if any. (Milind Bhandarkar via cutting)

7. HADOOP-871. Fix a bug in bin/hadoop setting JAVA\_LIBRARY\_PATH.

(Arun C Murthy via cutting)

8. HADOOP-868. Decrease the number of open files during map,

respecting io.sort.fa ctor. (Devaraj Das via cutting)

9. HADOOP-865. Fix S3 FileSystem so that partially created files can

be deleted. (Tom White via cutting)

10. HADOOP-873. Pass java.library.path correctly to child processes.

(omalley via cutting)

11. HADOOP-851. Add support for the LZO codec. This is much faster

than the default, zlib-based compression, but it is only available

when the native library is built. (Arun C Murthy via cutting)

12. HADOOP-880. Fix S3 FileSystem to remove directories.

(Tom White via cutting)

13. HADOOP-879. Fix InputFormatBase to handle output generated by

MapFileOutputFormat. (cutting)

14. HADOOP-659. In HDFS, prioritize replication of blocks based on

current replication level. Blocks which are severely

under-replicated should be further replicated before blocks which

are less under-replicated. (Hairong Kuang via cutting)

15. HADOOP-726. Deprecate FileSystem locking methods. They are not

currently usable. Locking should eventually provided as an

independent service. (Raghu Angadi via cutting)

16. HADOOP-758. Fix exception handling during reduce so that root

exceptions are not masked by exceptions in cleanups.

(Raghu Angadi via cutting)

Release 0.10.0 - 2007-01-05

1. HADOOP-763. Change DFS namenode benchmark to not use MapReduce.

(Nigel Daley via cutting)

2. HADOOP-777. Use fully-qualified hostnames for tasktrackers and

datanodes. (Mahadev Konar via cutting)

3. HADOOP-621. Change 'dfs -cat' to exit sooner when output has been

closed. (Dhruba Borthakur via cutting)

4. HADOOP-752. Rationalize some synchronization in DFS namenode.

(Dhruba Borthakur via cutting)

5. HADOOP-629. Fix RPC services to better check the protocol name and

version. (omalley via cutting)

6. HADOOP-774. Limit the number of invalid blocks returned with

heartbeats by the namenode to datanodes. Transmitting and

processing very large invalid block lists can tie up both the

namenode and datanode for too long. (Dhruba Borthakur via cutting)

7. HADOOP-738. Change 'dfs -get' command to not create CRC files by

default, adding a -crc option to force their creation.

(Milind Bhandarkar via cutting)

8. HADOOP-676. Improved exceptions and error messages for common job

input specification errors. (Sanjay Dahiya via cutting)

9. [Included in 0.9.2 release]

10. HADOOP-756. Add new dfsadmin option to wait for filesystem to be

operational. (Dhruba Borthakur via cutting)

11. HADOOP-770. Fix jobtracker web interface to display, on restart,

jobs that were running when it was last stopped.

(Sanjay Dahiya via cutting)

12. HADOOP-331. Write all map outputs to a single file with an index,

rather than to a separate file per reduce task. This should both

speed the shuffle and make things more scalable.

(Devaraj Das via cutting)

13. HADOOP-818. Fix contrib unit tests to not depend on core unit

tests. (omalley via cutting)

14. HADOOP-786. Log common exception at debug level.

(Sanjay Dahiya via cutting)

15. HADOOP-796. Provide more convenient access to failed task

information in the web interface. (Sanjay Dahiya via cutting)

16. HADOOP-764. Reduce memory allocations in namenode some.

(Dhruba Borthakur via cutting)

17. HADOOP-802. Update description of mapred.speculative.execution to

mention reduces. (Nigel Daley via cutting)

18. HADOOP-806. Include link to datanodes on front page of namenode

web interface. (Raghu Angadi via cutting)

19. HADOOP-618. Make JobSubmissionProtocol public.

(Arun C Murthy via cutting)

20. HADOOP-782. Fully remove killed tasks. (Arun C Murthy via cutting)

21. HADOOP-792. Fix 'dfs -mv' to return correct status.

(Dhruba Borthakur via cutting)

22. HADOOP-673. Give each task its own working directory again.

(Mahadev Konar via cutting)

23. HADOOP-571. Extend the syntax of Path to be a URI; to be

optionally qualified with a scheme and authority. The scheme

determines the FileSystem implementation, while the authority

determines the FileSystem instance. New FileSystem

implementations may be provided by defining an fs.<scheme>.impl

property, naming the FileSystem implementation class. This

permits easy integration of new FileSystem implementations.

(cutting)

24. HADOOP-720. Add an HDFS white paper to website.

(Dhruba Borthakur via cutting)

25. HADOOP-794. Fix a divide-by-zero exception when a job specifies

zero map tasks. (omalley via cutting)

26. HADOOP-454. Add a 'dfs -dus' command that provides summary disk

usage. (Hairong Kuang via cutting)

27. HADOOP-574. Add an Amazon S3 implementation of FileSystem. To

use this, one need only specify paths of the form

s3://id:secret@bucket/. Alternately, the AWS access key id and

secret can be specified in your config, with the properties

fs.s3.awsAccessKeyId and fs.s3.awsSecretAccessKey.

(Tom White via cutting)

28. HADOOP-824. Rename DFSShell to be FsShell, since it applies

generically to all FileSystem implementations. (cutting)

29. HADOOP-813. Fix map output sorting to report progress, so that

sorts which take longer than the task timeout do not fail.

(Devaraj Das via cutting)

30. HADOOP-825. Fix HDFS daemons when configured with new URI syntax.

(omalley via cutting)

31. HADOOP-596. Fix a bug in phase reporting during reduce.

(Sanjay Dahiya via cutting)

32. HADOOP-811. Add a utility, MultithreadedMapRunner.

(Alejandro Abdelnur via cutting)

33. HADOOP-829. Within HDFS, clearly separate three different

representations for datanodes: one for RPCs, one for

namenode-internal use, and one for namespace persistence.

(Dhruba Borthakur via cutting)

34. HADOOP-823. Fix problem starting datanode when not all configured

data directories exist. (Bryan Pendleton via cutting)

35. HADOOP-451. Add a Split interface. CAUTION: This incompatibly

changes the InputFormat and RecordReader interfaces. Not only is

FileSplit replaced with Split, but a FileSystem parameter is no

longer passed in several methods, input validation has changed,

etc. (omalley via cutting)

36. HADOOP-814. Optimize locking in namenode. (Dhruba Borthakur via cutting)

37. HADOOP-738. Change 'fs -put' and 'fs -get' commands to accept

standard input and output, respectively. Standard i/o is

specified by a file named '-'. (Wendy Chien via cutting)

38. HADOOP-835. Fix a NullPointerException reading record-compressed

SequenceFiles. (Hairong Kuang via cutting)

39. HADOOP-836. Fix a MapReduce bug on Windows, where the wrong

FileSystem was used. Also add a static FileSystem.getLocal()

method and better Path checking in HDFS, to help avoid such issues

in the future. (omalley via cutting)

40. HADOOP-837. Improve RunJar utility to unpack jar file

hadoop.tmp.dir, rather than the system temporary directory.

(Hairong Kuang via cutting)

41. HADOOP-841. Fix native library to build 32-bit version even when

on a 64-bit host, if a 32-bit JVM is used. (Arun C Murthy via cutting)

42. HADOOP-838. Fix tasktracker to pass java.library.path to

sub-processes, so that libhadoop.a is found.

(Arun C Murthy via cutting)

43. HADOOP-844. Send metrics messages on a fixed-delay schedule

instead of a fixed-rate schedule. (David Bowen via cutting)

44. HADOOP-849. Fix OutOfMemory exceptions in TaskTracker due to a

file handle leak in SequenceFile. (Devaraj Das via cutting)

45. HADOOP-745. Fix a synchronization bug in the HDFS namenode.

(Dhruba Borthakur via cutting)

46. HADOOP-850. Add Writable implementations for variable-length

integers. (ab via cutting)

47. HADOOP-525. Add raw comparators to record types. This greatly

improves record sort performance. (Milind Bhandarkar via cutting)

48. HADOOP-628. Fix a problem with 'fs -cat' command, where some

characters were replaced with question marks. (Wendy Chien via cutting)

49. HADOOP-804. Reduce verbosity of MapReduce logging.

(Sanjay Dahiya via cutting)

50. HADOOP-853. Rename 'site' to 'docs', in preparation for inclusion

in releases. (cutting)

51. HADOOP-371. Include contrib jars and site documentation in

distributions. Also add contrib and example documentation to

distributed javadoc, in separate sections. (Nigel Daley via cutting)

52. HADOOP-846. Report progress during entire map, as sorting of

intermediate outputs may happen at any time, potentially causing

task timeouts. (Devaraj Das via cutting)

53. HADOOP-840. In task tracker, queue task cleanups and perform them

in a separate thread. (omalley & Mahadev Konar via cutting)

54. HADOOP-681. Add to HDFS the ability to decommission nodes. This

causes their blocks to be re-replicated on other nodes, so that

they may be removed from a cluster. (Dhruba Borthakur via cutting)

55. HADOOP-470. In HDFS web ui, list the datanodes containing each

copy of a block. (Hairong Kuang via cutting)

56. HADOOP-700. Change bin/hadoop to only include core jar file on

classpath, not example, test, etc. Also rename core jar to

hadoop-${version}-core.jar so that it can be more easily

identified. (Nigel Daley via cutting)

57. HADOOP-619. Extend InputFormatBase to accept individual files and

glob patterns as MapReduce inputs, not just directories. Also

change contrib/streaming to use this. (Sanjay Dahia via cutting)

Release 0.9.2 - 2006-12-15

1. HADOOP-639. Restructure InterTrackerProtocol to make task

accounting more reliable. (Arun C Murthy via cutting)

2. HADOOP-827. Turn off speculative execution by default, since it's

currently broken. (omalley via cutting)

3. HADOOP-791. Fix a deadlock in the task tracker.

(Mahadev Konar via cutting)

Release 0.9.1 - 2006-12-06

1. HADOOP-780. Use ReflectionUtils to instantiate key and value

objects. (ab)

2. HADOOP-779. Fix contrib/streaming to work correctly with gzipped

input files. (Hairong Kuang via cutting)

Release 0.9.0 - 2006-12-01

1. HADOOP-655. Remove most deprecated code. A few deprecated things

remain, notably UTF8 and some methods that are still required.

Also cleaned up constructors for SequenceFile, MapFile, SetFile,

and ArrayFile a bit. (cutting)

2. HADOOP-565. Upgrade to Jetty version 6. (Sanjay Dahiya via cutting)

3. HADOOP-682. Fix DFS format command to work correctly when

configured with a non-existent directory. (Sanjay Dahiya via cutting)

4. HADOOP-645. Fix a bug in contrib/streaming when -reducer is NONE.

(Dhruba Borthakur via cutting)

5. HADOOP-687. Fix a classpath bug in bin/hadoop that blocked the

servers from starting. (Sameer Paranjpye via omalley)

6. HADOOP-683. Remove a script dependency on bash, so it works with

dash, the new default for /bin/sh on Ubuntu. (James Todd via cutting)

7. HADOOP-382. Extend unit tests to run multiple datanodes.

(Milind Bhandarkar via cutting)

8. HADOOP-604. Fix some synchronization issues and a

NullPointerException in DFS datanode. (Raghu Angadi via cutting)

9. HADOOP-459. Fix memory leaks and a host of other issues with

libhdfs. (Sameer Paranjpye via cutting)

10. HADOOP-694. Fix a NullPointerException in jobtracker.

(Mahadev Konar via cutting)

11. HADOOP-637. Fix a memory leak in the IPC server. Direct buffers

are not collected like normal buffers, and provided little

advantage. (Raghu Angadi via cutting)

12. HADOOP-696. Fix TestTextInputFormat unit test to not rely on the

order of directory listings. (Sameer Paranjpye via cutting)

13. HADOOP-611. Add support for iterator-based merging to

SequenceFile. (Devaraj Das via cutting)

14. HADOOP-688. Move DFS administrative commands to a separate

command named 'dfsadmin'. (Dhruba Borthakur via cutting)

15. HADOOP-708. Fix test-libhdfs to return the correct status, so

that failures will break the build. (Nigel Daley via cutting)

16. HADOOP-646. Fix namenode to handle edits files larger than 2GB.

(Milind Bhandarkar via cutting)

17. HADOOP-705. Fix a bug in the JobTracker when failed jobs were

not completely cleaned up. (Mahadev Konar via cutting)

18. HADOOP-613. Perform final merge while reducing. This removes one

sort pass over the data and should consequently significantly

decrease overall processing time. (Devaraj Das via cutting)

19. HADOOP-661. Make each job's configuration visible through the web

ui. (Arun C Murthy via cutting)

20. HADOOP-489. In MapReduce, separate user logs from system logs.

Each task's log output is now available through the web ui. (Arun

C Murthy via cutting)

21. HADOOP-712. Fix record io's xml serialization to correctly handle

control-characters. (Milind Bhandarkar via cutting)

22. HADOOP-668. Improvements to the web-based DFS browser.

(Hairong Kuang via cutting)

23. HADOOP-715. Fix build.xml so that test logs are written in build

directory, rather than in CWD. (Arun C Murthy via cutting)

24. HADOOP-538. Add support for building an optional native library,

libhadoop.so, that improves the performance of zlib-based

compression. To build this, specify -Dcompile.native to Ant.

(Arun C Murthy via cutting)

25. HADOOP-610. Fix an problem when the DFS block size is configured

to be smaller than the buffer size, typically only when debugging.

(Milind Bhandarkar via cutting)

26. HADOOP-695. Fix a NullPointerException in contrib/streaming.

(Hairong Kuang via cutting)

27. HADOOP-652. In DFS, when a file is deleted, the block count is

now decremented. (Vladimir Krokhmalyov via cutting)

28. HADOOP-725. In DFS, optimize block placement algorithm,

previously a performance bottleneck. (Milind Bhandarkar via cutting)

29. HADOOP-723. In MapReduce, fix a race condition during the

shuffle, which resulted in FileNotFoundExceptions. (omalley via cutting)

30. HADOOP-447. In DFS, fix getBlockSize(Path) to work with relative

paths. (Raghu Angadi via cutting)

31. HADOOP-733. Make exit codes in DFShell consistent and add a unit

test. (Dhruba Borthakur via cutting)

32. HADOOP-709. Fix contrib/streaming to work with commands that

contain control characters. (Dhruba Borthakur via cutting)

33. HADOOP-677. In IPC, permit a version header to be transmitted

when connections are established. This will permit us to change

the format of IPC requests back-compatibly in subsequent releases.

(omalley via cutting)

34. HADOOP-699. Fix DFS web interface so that filesystem browsing

works correctly, using the right port number. Also add support

for sorting datanode list by various columns.

(Raghu Angadi via cutting)

35. HADOOP-76. Implement speculative reduce. Now when a job is

configured for speculative execution, both maps and reduces will

execute speculatively. Reduce outputs are written to temporary

location and moved to the final location when reduce is complete.

(Sanjay Dahiya via cutting)

36. HADOOP-736. Roll back to Jetty 5.1.4, due to performance problems

with Jetty 6.0.1.

37. HADOOP-739. Fix TestIPC to use different port number, making it

more reliable. (Nigel Daley via cutting)

38. HADOOP-749. Fix a NullPointerException in jobfailures.jsp.

(omalley via cutting)

39. HADOOP-747. Fix record serialization to work correctly when

records are embedded in Maps. (Milind Bhandarkar via cutting)

40. HADOOP-698. Fix HDFS client not to retry the same datanode on

read failures. (Milind Bhandarkar via cutting)

41. HADOOP-689. Add GenericWritable, to facilitate polymorphism in

MapReduce, SequenceFile, etc. (Feng Jiang via cutting)

42. HADOOP-430. Stop datanode's HTTP server when registration with

namenode fails. (Wendy Chien via cutting)

43. HADOOP-750. Fix a potential race condition during mapreduce

shuffle. (omalley via cutting)

44. HADOOP-728. Fix contrib/streaming-related issues, including

'-reducer NONE'. (Sanjay Dahiya via cutting)

Release 0.8.0 - 2006-11-03

1. HADOOP-477. Extend contrib/streaming to scan the PATH environment

variables when resolving executable program names.

(Dhruba Borthakur via cutting)

2. HADOOP-583. In DFSClient, reduce the log level of re-connect

attempts from 'info' to 'debug', so they are not normally shown.

(Konstantin Shvachko via cutting)

3. HADOOP-498. Re-implement DFS integrity checker to run server-side,

for much improved performance. (Milind Bhandarkar via cutting)

4. HADOOP-586. Use the jar name for otherwise un-named jobs.

(Sanjay Dahiya via cutting)

5. HADOOP-514. Make DFS heartbeat interval configurable.

(Milind Bhandarkar via cutting)

6. HADOOP-588. Fix logging and accounting of failed tasks.

(Sanjay Dahiya via cutting)

7. HADOOP-462. Improve command line parsing in DFSShell, so that

incorrect numbers of arguments result in informative errors rather

than ArrayOutOfBoundsException. (Dhruba Borthakur via cutting)

8. HADOOP-561. Fix DFS so that one replica of each block is written

locally, if possible. This was the intent, but there as a bug.

(Dhruba Borthakur via cutting)

9. HADOOP-610. Fix TaskTracker to survive more exceptions, keeping

tasks from becoming lost. (omalley via cutting)

10. HADOOP-625. Add a servlet to all http daemons that displays a

stack dump, useful for debugging. (omalley via cutting)

11. HADOOP-554. Fix DFSShell to return -1 for errors.

(Dhruba Borthakur via cutting)

12. HADOOP-626. Correct the documentation in the NNBench example

code, and also remove a mistaken call there.

(Nigel Daley via cutting)

13. HADOOP-634. Add missing license to many files.

(Nigel Daley via cutting)

14. HADOOP-627. Fix some synchronization problems in MiniMRCluster

that sometimes caused unit tests to fail. (Nigel Daley via cutting)

15. HADOOP-563. Improve the NameNode's lease policy so that leases

are held for one hour without renewal (instead of one minute).

However another attempt to create the same file will still succeed

if the lease has not been renewed within a minute. This prevents

communication or scheduling problems from causing a write to fail

for up to an hour, barring some other process trying to create the

same file. (Dhruba Borthakur via cutting)

16. HADOOP-635. In DFSShell, permit specification of multiple files

as the source for file copy and move commands.

(Dhruba Borthakur via cutting)

17. HADOOP-641. Change NameNode to request a fresh block report from

a re-discovered DataNode, so that no-longer-needed replications

are stopped promptly. (Konstantin Shvachko via cutting)

18. HADOOP-642. Change IPC client to specify an explicit connect

timeout. (Konstantin Shvachko via cutting)

19. HADOOP-638. Fix an unsynchronized access to TaskTracker's

internal state. (Nigel Daley via cutting)

20. HADOOP-624. Fix servlet path to stop a Jetty warning on startup.

(omalley via cutting)

21. HADOOP-578. Failed tasks are no longer placed at the end of the

task queue. This was originally done to work around other

problems that have now been fixed. Re-executing failed tasks

sooner causes buggy jobs to fail faster. (Sanjay Dahiya via cutting)

22. HADOOP-658. Update source file headers per Apache policy. (cutting)

23. HADOOP-636. Add MapFile & ArrayFile constructors which accept a

Progressable, and pass it down to SequenceFile. This permits

reduce tasks which use MapFile to still report progress while

writing blocks to the filesystem. (cutting)

24. HADOOP-576. Enable contrib/streaming to use the file cache. Also

extend the cache to permit symbolic links to cached items, rather

than local file copies. (Mahadev Konar via cutting)

25. HADOOP-482. Fix unit tests to work when a cluster is running on

the same machine, removing port conflicts. (Wendy Chien via cutting)

26. HADOOP-90. Permit dfs.name.dir to list multiple directories,

where namenode data is to be replicated. (Milind Bhandarkar via cutting)

27. HADOOP-651. Fix DFSCk to correctly pass parameters to the servlet

on the namenode. (Milind Bhandarkar via cutting)

28. HADOOP-553. Change main() routines of DataNode and NameNode to

log exceptions rather than letting the JVM print them to standard

error. Also, change the hadoop-daemon.sh script to rotate

standard i/o log files. (Raghu Angadi via cutting)

29. HADOOP-399. Fix javadoc warnings. (Nigel Daley via cutting)

30. HADOOP-599. Fix web ui and command line to correctly report DFS

filesystem size statistics. Also improve web layout.

(Raghu Angadi via cutting)

31. HADOOP-660. Permit specification of junit test output format.

(Nigel Daley via cutting)

32. HADOOP-663. Fix a few unit test issues. (Mahadev Konar via cutting)

33. HADOOP-664. Cause entire build to fail if libhdfs tests fail.

(Nigel Daley via cutting)

34. HADOOP-633. Keep jobtracker from dying when job initialization

throws exceptions. Also improve exception handling in a few other

places and add more informative thread names.

(omalley via cutting)

35. HADOOP-669. Fix a problem introduced by HADOOP-90 that can cause

DFS to lose files. (Milind Bhandarkar via cutting)

36. HADOOP-373. Consistently check the value returned by

FileSystem.mkdirs(). (Wendy Chien via cutting)

37. HADOOP-670. Code cleanups in some DFS internals: use generic

types, replace Vector with ArrayList, etc.

(Konstantin Shvachko via cutting)

38. HADOOP-647. Permit map outputs to use a different compression

type than the job output. (omalley via cutting)

39. HADOOP-671. Fix file cache to check for pre-existence before

creating . (Mahadev Konar via cutting)

40. HADOOP-665. Extend many DFSShell commands to accept multiple

arguments. Now commands like "ls", "rm", etc. will operate on

multiple files. (Dhruba Borthakur via cutting)

Release 0.7.2 - 2006-10-18

1. HADOOP-607. Fix a bug where classes included in job jars were not

found by tasks. (Mahadev Konar via cutting)

2. HADOOP-609. Add a unit test that checks that classes in job jars

can be found by tasks. Also modify unit tests to specify multiple

local directories. (Mahadev Konar via cutting)

Release 0.7.1 - 2006-10-11

1. HADOOP-593. Fix a NullPointerException in the JobTracker.

(omalley via cutting)

2. HADOOP-592. Fix a NullPointerException in the IPC Server. Also

consistently log when stale calls are discarded. (omalley via cutting)

3. HADOOP-594. Increase the DFS safe-mode threshold from .95 to

.999, so that nearly all blocks must be reported before filesystem

modifications are permitted. (Konstantin Shvachko via cutting)

4. HADOOP-598. Fix tasks to retry when reporting completion, so that

a single RPC timeout won't fail a task. (omalley via cutting)

5. HADOOP-597. Fix TaskTracker to not discard map outputs for errors

in transmitting them to reduce nodes. (omalley via cutting)

Release 0.7.0 - 2006-10-06

1. HADOOP-243. Fix rounding in the display of task and job progress

so that things are not shown to be 100% complete until they are in

fact finished. (omalley via cutting)

2. HADOOP-438. Limit the length of absolute paths in DFS, since the

file format used to store pathnames has some limitations.

(Wendy Chien via cutting)

3. HADOOP-530. Improve error messages in SequenceFile when keys or

values are of the wrong type. (Hairong Kuang via cutting)

4. HADOOP-288. Add a file caching system and use it in MapReduce to

cache job jar files on slave nodes. (Mahadev Konar via cutting)

5. HADOOP-533. Fix unit test to not modify conf directory.

(Hairong Kuang via cutting)

6. HADOOP-527. Permit specification of the local address that various

Hadoop daemons should bind to. (Philippe Gassmann via cutting)

7. HADOOP-542. Updates to contrib/streaming: reformatted source code,

on-the-fly merge sort, a fix for HADOOP-540, etc.

(Michel Tourn via cutting)

8. HADOOP-545. Remove an unused config file parameter.

(Philippe Gassmann via cutting)

9. HADOOP-548. Add an Ant property "test.output" to build.xml that

causes test output to be logged to the console. (omalley via cutting)

10. HADOOP-261. Record an error message when map output is lost.

(omalley via cutting)

11. HADOOP-293. Report the full list of task error messages in the

web ui, not just the most recent. (omalley via cutting)

12. HADOOP-551. Restore JobClient's console printouts to only include

a maximum of one update per one percent of progress.

(omalley via cutting)

13. HADOOP-306. Add a "safe" mode to DFS. The name node enters this

when less than a specified percentage of file data is complete.

Currently safe mode is only used on startup, but eventually it

will also be entered when datanodes disconnect and file data

becomes incomplete. While in safe mode no filesystem

modifications are permitted and block replication is inhibited.

(Konstantin Shvachko via cutting)

14. HADOOP-431. Change 'dfs -rm' to not operate recursively and add a

new command, 'dfs -rmr' which operates recursively.

(Sameer Paranjpye via cutting)

15. HADOOP-263. Include timestamps for job transitions. The web

interface now displays the start and end times of tasks and the

start times of sorting and reducing for reduce tasks. Also,

extend ObjectWritable to handle enums, so that they can be passed

as RPC parameters. (Sanjay Dahiya via cutting)

16. HADOOP-556. Contrib/streaming: send keep-alive reports to task

tracker every 10 seconds rather than every 100 records, to avoid

task timeouts. (Michel Tourn via cutting)

17. HADOOP-547. Fix reduce tasks to ping tasktracker while copying

data, rather than only between copies, avoiding task timeouts.

(Sanjay Dahiya via cutting)

18. HADOOP-537. Fix src/c++/libhdfs build process to create files in

build/, no longer modifying the source tree.

(Arun C Murthy via cutting)

19. HADOOP-487. Throw a more informative exception for unknown RPC

hosts. (Sameer Paranjpye via cutting)

20. HADOOP-559. Add file name globbing (pattern matching) support to

the FileSystem API, and use it in DFSShell ('bin/hadoop dfs')

commands. (Hairong Kuang via cutting)

21. HADOOP-508. Fix a bug in FSDataInputStream. Incorrect data was

returned after seeking to a random location.

(Milind Bhandarkar via cutting)

22. HADOOP-560. Add a "killed" task state. This can be used to

distinguish kills from other failures. Task state has also been

converted to use an enum type instead of an int, uncovering a bug

elsewhere. The web interface is also updated to display killed

tasks. (omalley via cutting)

23. HADOOP-423. Normalize Paths containing directories named "." and

"..", using the standard, unix interpretation. Also add checks in

DFS, prohibiting the use of "." or ".." as directory or file

names. (Wendy Chien via cutting)

24. HADOOP-513. Replace map output handling with a servlet, rather

than a JSP page. This fixes an issue where

IllegalStateException's were logged, sets content-length

correctly, and better handles some errors. (omalley via cutting)

25. HADOOP-552. Improved error checking when copying map output files

to reduce nodes. (omalley via cutting)

26. HADOOP-566. Fix scripts to work correctly when accessed through

relative symbolic links. (Lee Faris via cutting)

27. HADOOP-519. Add positioned read methods to FSInputStream. These

permit one to read from a stream without moving its position, and

can hence be performed by multiple threads at once on a single

stream. Implement an optimized version for DFS and local FS.

(Milind Bhandarkar via cutting)

28. HADOOP-522. Permit block compression with MapFile and SetFile.

Since these formats are always sorted, block compression can

provide a big advantage. (cutting)

29. HADOOP-567. Record version and revision information in builds. A

package manifest is added to the generated jar file containing

version information, and a VersionInfo utility is added that

includes further information, including the build date and user,

and the subversion revision and repository. A 'bin/hadoop

version' comand is added to show this information, and it is also

added to various web interfaces. (omalley via cutting)

30. HADOOP-568. Fix so that errors while initializing tasks on a

tasktracker correctly report the task as failed to the jobtracker,

so that it will be rescheduled. (omalley via cutting)

31. HADOOP-550. Disable automatic UTF-8 validation in Text. This

permits, e.g., TextInputFormat to again operate on non-UTF-8 data.

(Hairong and Mahadev via cutting)

32. HADOOP-343. Fix mapred copying so that a failed tasktracker

doesn't cause other copies to slow. (Sameer Paranjpye via cutting)

33. HADOOP-239. Add a persistent job history mechanism, so that basic

job statistics are not lost after 24 hours and/or when the

jobtracker is restarted. (Sanjay Dahiya via cutting)

34. HADOOP-506. Ignore heartbeats from stale task trackers.

(Sanjay Dahiya via cutting)

35. HADOOP-255. Discard stale, queued IPC calls. Do not process

calls whose clients will likely time out before they receive a

response. When the queue is full, new calls are now received and

queued, and the oldest calls are discarded, so that, when servers

get bogged down, they no longer develop a backlog on the socket.

This should improve some DFS namenode failure modes.

(omalley via cutting)

36. HADOOP-581. Fix datanode to not reset itself on communications

errors with the namenode. If a request to the namenode fails, the

datanode should retry, not restart. This reduces the load on the

namenode, since restarts cause a resend of the block report.

(omalley via cutting)

Release 0.6.2 - 2006-09-18

1. HADOOP-532. Fix a bug reading value-compressed sequence files,

where an exception was thrown reporting that the full value had not

been read. (omalley via cutting)

2. HADOOP-534. Change the default value class in JobConf to be Text

instead of the now-deprecated UTF8. This fixes the Grep example

program, which was updated to use Text, but relies on this

default. (Hairong Kuang via cutting)

Release 0.6.1 - 2006-09-13

1. HADOOP-520. Fix a bug in libhdfs, where write failures were not

correctly returning error codes. (Arun C Murthy via cutting)

2. HADOOP-523. Fix a NullPointerException when TextInputFormat is

explicitly specified. Also add a test case for this.

(omalley via cutting)

3. HADOOP-521. Fix another NullPointerException finding the

ClassLoader when using libhdfs. (omalley via cutting)

4. HADOOP-526. Fix a NullPointerException when attempting to start

two datanodes in the same directory. (Milind Bhandarkar via cutting)

5. HADOOP-529. Fix a NullPointerException when opening

value-compressed sequence files generated by pre-0.6.0 Hadoop.

(omalley via cutting)

Release 0.6.0 - 2006-09-08

1. HADOOP-427. Replace some uses of DatanodeDescriptor in the DFS

web UI code with DatanodeInfo, the preferred public class.

(Devaraj Das via cutting)

2. HADOOP-426. Fix streaming contrib module to work correctly on

Solaris. This was causing nightly builds to fail.

(Michel Tourn via cutting)

3. HADOOP-400. Improvements to task assignment. Tasks are no longer

re-run on nodes where they have failed (unless no other node is

available). Also, tasks are better load-balanced among nodes.

(omalley via cutting)

4. HADOOP-324. Fix datanode to not exit when a disk is full, but

rather simply to fail writes. (Wendy Chien via cutting)

5. HADOOP-434. Change smallJobsBenchmark to use standard Hadoop

scripts. (Sanjay Dahiya via cutting)

6. HADOOP-453. Fix a bug in Text.setCapacity(). (siren via cutting)

7. HADOOP-450. Change so that input types are determined by the

RecordReader rather than specified directly in the JobConf. This

facilitates jobs with a variety of input types.

WARNING: This contains incompatible API changes! The RecordReader

interface has two new methods that all user-defined InputFormats

must now define. Also, the values returned by TextInputFormat are

no longer of class UTF8, but now of class Text.

8. HADOOP-436. Fix an error-handling bug in the web ui.

(Devaraj Das via cutting)

9. HADOOP-455. Fix a bug in Text, where DEL was not permitted.

(Hairong Kuang via cutting)

10. HADOOP-456. Change the DFS namenode to keep a persistent record

of the set of known datanodes. This will be used to implement a

"safe mode" where filesystem changes are prohibited when a

critical percentage of the datanodes are unavailable.

(Konstantin Shvachko via cutting)

11. HADOOP-322. Add a job control utility. This permits one to

specify job interdependencies. Each job is submitted only after

the jobs it depends on have successfully completed.

(Runping Qi via cutting)

12. HADOOP-176. Fix a bug in IntWritable.Comparator.

(Dick King via cutting)

13. HADOOP-421. Replace uses of String in recordio package with Text

class, for improved handling of UTF-8 data.

(Milind Bhandarkar via cutting)

14. HADOOP-464. Improved error message when job jar not found.

(Michel Tourn via cutting)

15. HADOOP-469. Fix /bin/bash specifics that have crept into our

/bin/sh scripts since HADOOP-352.

(Jean-Baptiste Quenot via cutting)

16. HADOOP-468. Add HADOOP\_NICENESS environment variable to set

scheduling priority for daemons. (Vetle Roeim via cutting)

17. HADOOP-473. Fix TextInputFormat to correctly handle more EOL

formats. Things now work correctly with CR, LF or CRLF.

(Dennis Kubes & James White via cutting)

18. HADOOP-461. Make Java 1.5 an explicit requirement. (cutting)

19. HADOOP-54. Add block compression to SequenceFile. One may now

specify that blocks of keys and values are compressed together,

improving compression for small keys and values.

SequenceFile.Writer's constructor is now deprecated and replaced

with a factory method. (Arun C Murthy via cutting)

20. HADOOP-281. Prohibit DFS files that are also directories.

(Wendy Chien via cutting)

21. HADOOP-486. Add the job username to JobStatus instances returned

by JobClient. (Mahadev Konar via cutting)

22. HADOOP-437. contrib/streaming: Add support for gzipped inputs.

(Michel Tourn via cutting)

23. HADOOP-463. Add variable expansion to config files.

Configuration property values may now contain variable

expressions. A variable is referenced with the syntax

'${variable}'. Variables values are found first in the

configuration, and then in Java system properties. The default

configuration is modified so that temporary directories are now

under ${hadoop.tmp.dir}, which is, by default,

/tmp/hadoop-${user.name}. (Michel Tourn via cutting)

24. HADOOP-419. Fix a NullPointerException finding the ClassLoader

when using libhdfs. (omalley via cutting)

25. HADOOP-460. Fix contrib/smallJobsBenchmark to use Text instead of

UTF8. (Sanjay Dahiya via cutting)

26. HADOOP-196. Fix Configuration(Configuration) constructor to work

correctly. (Sami Siren via cutting)

27. HADOOP-501. Fix Configuration.toString() to handle URL resources.

(Thomas Friol via cutting)

28. HADOOP-499. Reduce the use of Strings in contrib/streaming,

replacing them with Text for better performance.

(Hairong Kuang via cutting)

29. HADOOP-64. Manage multiple volumes with a single DataNode.

Previously DataNode would create a separate daemon per configured

volume, each with its own connection to the NameNode. Now all

volumes are handled by a single DataNode daemon, reducing the load

on the NameNode. (Milind Bhandarkar via cutting)

30. HADOOP-424. Fix MapReduce so that jobs which generate zero splits

do not fail. (Fr??d??ric Bertin via cutting)

31. HADOOP-408. Adjust some timeouts and remove some others so that

unit tests run faster. (cutting)

32. HADOOP-507. Fix an IllegalAccessException in DFS.

(omalley via cutting)

33. HADOOP-320. Fix so that checksum files are correctly copied when

the destination of a file copy is a directory.

(Hairong Kuang via cutting)

34. HADOOP-286. In DFSClient, avoid pinging the NameNode with

renewLease() calls when no files are being written.

(Konstantin Shvachko via cutting)

35. HADOOP-312. Close idle IPC connections. All IPC connections were

cached forever. Now, after a connection has been idle for more

than a configurable amount of time (one second by default), the

connection is closed, conserving resources on both client and

server. (Devaraj Das via cutting)

36. HADOOP-497. Permit the specification of the network interface and

nameserver to be used when determining the local hostname

advertised by datanodes and tasktrackers.

(Lorenzo Thione via cutting)

37. HADOOP-441. Add a compression codec API and extend SequenceFile

to use it. This will permit the use of alternate compression

codecs in SequenceFile. (Arun C Murthy via cutting)

38. HADOOP-483. Improvements to libhdfs build and documentation.

(Arun C Murthy via cutting)

39. HADOOP-458. Fix a memory corruption bug in libhdfs.

(Arun C Murthy via cutting)

40. HADOOP-517. Fix a contrib/streaming bug in end-of-line detection.

(Hairong Kuang via cutting)

41. HADOOP-474. Add CompressionCodecFactory, and use it in

TextInputFormat and TextOutputFormat. Compressed input files are

automatically decompressed when they have the correct extension.

Output files will, when output compression is specified, be

generated with an approprate extension. Also add a gzip codec and

fix problems with UTF8 text inputs. (omalley via cutting)

Release 0.5.0 - 2006-08-04

1. HADOOP-352. Fix shell scripts to use /bin/sh instead of

/bin/bash, for better portability.

(Jean-Baptiste Quenot via cutting)

2. HADOOP-313. Permit task state to be saved so that single tasks

may be manually re-executed when debugging. (omalley via cutting)

3. HADOOP-339. Add method to JobClient API listing jobs that are

not yet complete, i.e., that are queued or running.

(Mahadev Konar via cutting)

4. HADOOP-355. Updates to the streaming contrib module, including

API fixes, making reduce optional, and adding an input type for

StreamSequenceRecordReader. (Michel Tourn via cutting)

5. HADOOP-358. Fix a NPE bug in Path.equals().

(Fr??d??ric Bertin via cutting)

6. HADOOP-327. Fix ToolBase to not call System.exit() when

exceptions are thrown. (Hairong Kuang via cutting)

7. HADOOP-359. Permit map output to be compressed.

(omalley via cutting)

8. HADOOP-341. Permit input URI to CopyFiles to use the HTTP

protocol. This lets one, e.g., more easily copy log files into

DFS. (Arun C Murthy via cutting)

9. HADOOP-361. Remove unix dependencies from streaming contrib

module tests, making them pure java. (Michel Tourn via cutting)

10. HADOOP-354. Make public methods to stop DFS daemons.

(Barry Kaplan via cutting)

11. HADOOP-252. Add versioning to RPC protocols.

(Milind Bhandarkar via cutting)

12. HADOOP-356. Add contrib to "compile" and "test" build targets, so

that this code is better maintained. (Michel Tourn via cutting)

13. HADOOP-307. Add smallJobsBenchmark contrib module. This runs

lots of small jobs, in order to determine per-task overheads.

(Sanjay Dahiya via cutting)

14. HADOOP-342. Add a tool for log analysis: Logalyzer.

(Arun C Murthy via cutting)

15. HADOOP-347. Add web-based browsing of DFS content. The namenode

redirects browsing requests to datanodes. Content requests are

redirected to datanodes where the data is local when possible.

(Devaraj Das via cutting)

16. HADOOP-351. Make Hadoop IPC kernel independent of Jetty.

(Devaraj Das via cutting)

17. HADOOP-237. Add metric reporting to DFS and MapReduce. With only

minor configuration changes, one can now monitor many Hadoop

system statistics using Ganglia or other monitoring systems.

(Milind Bhandarkar via cutting)

18. HADOOP-376. Fix datanode's HTTP server to scan for a free port.

(omalley via cutting)

19. HADOOP-260. Add --config option to shell scripts, specifying an

alternate configuration directory. (Milind Bhandarkar via cutting)

20. HADOOP-381. Permit developers to save the temporary files for

tasks whose names match a regular expression, to facilliate

debugging. (omalley via cutting)

21. HADOOP-344. Fix some Windows-related problems with DF.

(Konstantin Shvachko via cutting)

22. HADOOP-380. Fix reduce tasks to poll less frequently for map

outputs. (Mahadev Konar via cutting)

23. HADOOP-321. Refactor DatanodeInfo, in preparation for

HADOOP-306. (Konstantin Shvachko & omalley via cutting)

24. HADOOP-385. Fix some bugs in record io code generation.

(Milind Bhandarkar via cutting)

25. HADOOP-302. Add new Text class to replace UTF8, removing

limitations of that class. Also refactor utility methods for

writing zero-compressed integers (VInts and VLongs).

(Hairong Kuang via cutting)

26. HADOOP-335. Refactor DFS namespace/transaction logging in

namenode. (Konstantin Shvachko via cutting)

27. HADOOP-375. Fix handling of the datanode HTTP daemon's port so

that multiple datanode's can be run on a single host.

(Devaraj Das via cutting)

28. HADOOP-386. When removing excess DFS block replicas, remove those

on nodes with the least free space first.

(Johan Oskarson via cutting)

29. HADOOP-389. Fix intermittent failures of mapreduce unit tests.

Also fix some build dependencies.

(Mahadev & Konstantin via cutting)

30. HADOOP-362. Fix a problem where jobs hang when status messages

are recieved out-of-order. (omalley via cutting)

31. HADOOP-394. Change order of DFS shutdown in unit tests to

minimize errors logged. (Konstantin Shvachko via cutting)

32. HADOOP-396. Make DatanodeID implement Writable.

(Konstantin Shvachko via cutting)

33. HADOOP-377. Permit one to add URL resources to a Configuration.

(Jean-Baptiste Quenot via cutting)

34. HADOOP-345. Permit iteration over Configuration key/value pairs.

(Michel Tourn via cutting)

35. HADOOP-409. Streaming contrib module: make configuration

properties available to commands as environment variables.

(Michel Tourn via cutting)

36. HADOOP-369. Add -getmerge option to dfs command that appends all

files in a directory into a single local file.

(Johan Oskarson via cutting)

37. HADOOP-410. Replace some TreeMaps with HashMaps in DFS, for

a 17% performance improvement. (Milind Bhandarkar via cutting)

38. HADOOP-411. Add unit tests for command line parser.

(Hairong Kuang via cutting)

39. HADOOP-412. Add MapReduce input formats that support filtering

of SequenceFile data, including sampling and regex matching.

Also, move JobConf.newInstance() to a new utility class.

(Hairong Kuang via cutting)

40. HADOOP-226. Fix fsck command to properly consider replication

counts, now that these can vary per file. (Bryan Pendleton via cutting)

41. HADOOP-425. Add a Python MapReduce example, using Jython.

(omalley via cutting)

Release 0.4.0 - 2006-06-28

1. HADOOP-298. Improved progress reports for CopyFiles utility, the

distributed file copier. (omalley via cutting)

2. HADOOP-299. Fix the task tracker, permitting multiple jobs to

more easily execute at the same time. (omalley via cutting)

3. HADOOP-250. Add an HTTP user interface to the namenode, running

on port 50070. (Devaraj Das via cutting)

4. HADOOP-123. Add MapReduce unit tests that run a jobtracker and

tasktracker, greatly increasing code coverage.

(Milind Bhandarkar via cutting)

5. HADOOP-271. Add links from jobtracker's web ui to tasktracker's

web ui. Also attempt to log a thread dump of child processes

before they're killed. (omalley via cutting)

6. HADOOP-210. Change RPC server to use a selector instead of a

thread per connection. This should make it easier to scale to

larger clusters. Note that this incompatibly changes the RPC

protocol: clients and servers must both be upgraded to the new

version to ensure correct operation. (Devaraj Das via cutting)

7. HADOOP-311. Change DFS client to retry failed reads, so that a

single read failure will not alone cause failure of a task.

(omalley via cutting)

8. HADOOP-314. Remove the "append" phase when reducing. Map output

files are now directly passed to the sorter, without first

appending them into a single file. Now, the first third of reduce

progress is "copy" (transferring map output to reduce nodes), the

middle third is "sort" (sorting map output) and the last third is

"reduce" (generating output). Long-term, the "sort" phase will

also be removed. (omalley via cutting)

9. HADOOP-316. Fix a potential deadlock in the jobtracker.

(omalley via cutting)

10. HADOOP-319. Fix FileSystem.close() to remove the FileSystem

instance from the cache. (Hairong Kuang via cutting)

11. HADOOP-135. Fix potential deadlock in JobTracker by acquiring

locks in a consistent order. (omalley via cutting)

12. HADOOP-278. Check for existence of input directories before

starting MapReduce jobs, making it easier to debug this common

error. (omalley via cutting)

13. HADOOP-304. Improve error message for

UnregisterdDatanodeException to include expected node name.

(Konstantin Shvachko via cutting)

14. HADOOP-305. Fix TaskTracker to ask for new tasks as soon as a

task is finished, rather than waiting for the next heartbeat.

This improves performance when tasks are short.

(Mahadev Konar via cutting)

15. HADOOP-59. Add support for generic command line options. One may

now specify the filesystem (-fs), the MapReduce jobtracker (-jt),

a config file (-conf) or any configuration property (-D). The

"dfs", "fsck", "job", and "distcp" commands currently support

this, with more to be added. (Hairong Kuang via cutting)

16. HADOOP-296. Permit specification of the amount of reserved space

on a DFS datanode. One may specify both the percentage free and

the number of bytes. (Johan Oskarson via cutting)

17. HADOOP-325. Fix a problem initializing RPC parameter classes, and

remove the workaround used to initialize classes.

(omalley via cutting)

18. HADOOP-328. Add an option to the "distcp" command to ignore read

errors while copying. (omalley via cutting)

19. HADOOP-27. Don't allocate tasks to trackers whose local free

space is too low. (Johan Oskarson via cutting)

20. HADOOP-318. Keep slow DFS output from causing task timeouts.

This incompatibly changes some public interfaces, adding a

parameter to OutputFormat.getRecordWriter() and the new method

Reporter.progress(), but it makes lots of tasks succeed that were

previously failing. (Milind Bhandarkar via cutting)

Release 0.3.2 - 2006-06-09

1. HADOOP-275. Update the streaming contrib module to use log4j for

its logging. (Michel Tourn via cutting)

2. HADOOP-279. Provide defaults for log4j logging parameters, so

that things still work reasonably when Hadoop-specific system

properties are not provided. (omalley via cutting)

3. HADOOP-280. Fix a typo in AllTestDriver which caused the wrong

test to be run when "DistributedFSCheck" was specified.

(Konstantin Shvachko via cutting)

4. HADOOP-240. DFS's mkdirs() implementation no longer logs a warning

when the directory already exists. (Hairong Kuang via cutting)

5. HADOOP-285. Fix DFS datanodes to be able to re-join the cluster

after the connection to the namenode is lost. (omalley via cutting)

6. HADOOP-277. Fix a race condition when creating directories.

(Sameer Paranjpye via cutting)

7. HADOOP-289. Improved exception handling in DFS datanode.

(Konstantin Shvachko via cutting)

8. HADOOP-292. Fix client-side logging to go to standard error

rather than standard output, so that it can be distinguished from

application output. (omalley via cutting)

9. HADOOP-294. Fixed bug where conditions for retrying after errors

in the DFS client were reversed. (omalley via cutting)

Release 0.3.1 - 2006-06-05

1. HADOOP-272. Fix a bug in bin/hadoop setting log

parameters. (omalley & cutting)

2. HADOOP-274. Change applications to log to standard output rather

than to a rolling log file like daemons. (omalley via cutting)

3. HADOOP-262. Fix reduce tasks to report progress while they're

waiting for map outputs, so that they do not time out.

(Mahadev Konar via cutting)

4. HADOOP-245 and HADOOP-246. Improvements to record io package.

(Mahadev Konar via cutting)

5. HADOOP-276. Add logging config files to jar file so that they're

always found. (omalley via cutting)

Release 0.3.0 - 2006-06-02

1. HADOOP-208. Enhance MapReduce web interface, adding new pages

for failed tasks, and tasktrackers. (omalley via cutting)

2. HADOOP-204. Tweaks to metrics package. (David Bowen via cutting)

3. HADOOP-209. Add a MapReduce-based file copier. This will

copy files within or between file systems in parallel.

(Milind Bhandarkar via cutting)

4. HADOOP-146. Fix DFS to check when randomly generating a new block

id that no existing blocks already have that id.

(Milind Bhandarkar via cutting)

5. HADOOP-180. Make a daemon thread that does the actual task clean ups, so

that the main offerService thread in the taskTracker doesn't get stuck

and miss his heartbeat window. This was killing many task trackers as

big jobs finished (300+ tasks / node). (omalley via cutting)

6. HADOOP-200. Avoid transmitting entire list of map task names to

reduce tasks. Instead just transmit the number of map tasks and

henceforth refer to them by number when collecting map output.

(omalley via cutting)

7. HADOOP-219. Fix a NullPointerException when handling a checksum

exception under SequenceFile.Sorter.sort(). (cutting & stack)

8. HADOOP-212. Permit alteration of the file block size in DFS. The

default block size for new files may now be specified in the

configuration with the dfs.block.size property. The block size

may also be specified when files are opened.

(omalley via cutting)

9. HADOOP-218. Avoid accessing configuration while looping through

tasks in JobTracker. (Mahadev Konar via cutting)

10. HADOOP-161. Add hashCode() method to DFS's Block.

(Milind Bhandarkar via cutting)

11. HADOOP-115. Map output types may now be specified. These are also

used as reduce input types, thus permitting reduce input types to

differ from reduce output types. (Runping Qi via cutting)

12. HADOOP-216. Add task progress to task status page.

(Bryan Pendelton via cutting)

13. HADOOP-233. Add web server to task tracker that shows running

tasks and logs. Also add log access to job tracker web interface.

(omalley via cutting)

14. HADOOP-205. Incorporate pending tasks into tasktracker load

calculations. (Mahadev Konar via cutting)

15. HADOOP-247. Fix sort progress to better handle exceptions.

(Mahadev Konar via cutting)

16. HADOOP-195. Improve performance of the transfer of map outputs to

reduce nodes by performing multiple transfers in parallel, each on

a separate socket. (Sameer Paranjpye via cutting)

17. HADOOP-251. Fix task processes to be tolerant of failed progress

reports to their parent process. (omalley via cutting)

18. HADOOP-325. Improve the FileNotFound exceptions thrown by

LocalFileSystem to include the name of the file.

(Benjamin Reed via cutting)

19. HADOOP-254. Use HTTP to transfer map output data to reduce

nodes. This, together with HADOOP-195, greatly improves the

performance of these transfers. (omalley via cutting)

20. HADOOP-163. Cause datanodes that\ are unable to either read or

write data to exit, so that the namenode will no longer target

them for new blocks and will replicate their data on other nodes.

(Hairong Kuang via cutting)

21. HADOOP-222. Add a -setrep option to the dfs commands that alters

file replication levels. (Johan Oskarson via cutting)

22. HADOOP-75. In DFS, only check for a complete file when the file

is closed, rather than as each block is written.

(Milind Bhandarkar via cutting)

23. HADOOP-124. Change DFS so that datanodes are identified by a

persistent ID rather than by host and port. This solves a number

of filesystem integrity problems, when, e.g., datanodes are

restarted. (Konstantin Shvachko via cutting)

24. HADOOP-256. Add a C API for DFS. (Arun C Murthy via cutting)

25. HADOOP-211. Switch to use the Jakarta Commons logging internally,

configured to use log4j by default. (Arun C Murthy and cutting)

26. HADOOP-265. Tasktracker now fails to start if it does not have a

writable local directory for temporary files. In this case, it

logs a message to the JobTracker and exits. (Hairong Kuang via cutting)

27. HADOOP-270. Fix potential deadlock in datanode shutdown.

(Hairong Kuang via cutting)

Release 0.2.1 - 2006-05-12

1. HADOOP-199. Fix reduce progress (broken by HADOOP-182).

(omalley via cutting)

2. HADOOP-201. Fix 'bin/hadoop dfs -report'. (cutting)

3. HADOOP-207. Fix JDK 1.4 incompatibility introduced by HADOOP-96.

System.getenv() does not work in JDK 1.4. (Hairong Kuang via cutting)

Release 0.2.0 - 2006-05-05

1. Fix HADOOP-126. 'bin/hadoop dfs -cp' now correctly copies .crc

files. (Konstantin Shvachko via cutting)

2. Fix HADOOP-51. Change DFS to support per-file replication counts.

(Konstantin Shvachko via cutting)

3. Fix HADOOP-131. Add scripts to start/stop dfs and mapred daemons.

Use these in start/stop-all scripts. (Chris Mattmann via cutting)

4. Stop using ssh options by default that are not yet in widely used

versions of ssh. Folks can still enable their use by uncommenting

a line in conf/hadoop-env.sh. (cutting)

5. Fix HADOOP-92. Show information about all attempts to run each

task in the web ui. (Mahadev konar via cutting)

6. Fix HADOOP-128. Improved DFS error handling. (Owen O'Malley via cutting)

7. Fix HADOOP-129. Replace uses of java.io.File with new class named

Path. This fixes bugs where java.io.File methods were called

directly when FileSystem methods were desired, and reduces the

likelihood of such bugs in the future. It also makes the handling

of pathnames more consistent between local and dfs FileSystems and

between Windows and Unix. java.io.File-based methods are still

available for back-compatibility, but are deprecated and will be

removed once 0.2 is released. (cutting)

8. Change dfs.data.dir and mapred.local.dir to be comma-separated

lists of directories, no longer be space-separated. This fixes

several bugs on Windows. (cutting)

9. Fix HADOOP-144. Use mapred task id for dfs client id, to

facilitate debugging. (omalley via cutting)

10. Fix HADOOP-143. Do not line-wrap stack-traces in web ui.

(omalley via cutting)

11. Fix HADOOP-118. In DFS, improve clean up of abandoned file

creations. (omalley via cutting)

12. Fix HADOOP-138. Stop multiple tasks in a single heartbeat, rather

than one per heartbeat. (Stefan via cutting)

13. Fix HADOOP-139. Remove a potential deadlock in

LocalFileSystem.lock(). (Igor Bolotin via cutting)

14. Fix HADOOP-134. Don't hang jobs when the tasktracker is

misconfigured to use an un-writable local directory. (omalley via cutting)

15. Fix HADOOP-115. Correct an error message. (Stack via cutting)

16. Fix HADOOP-133. Retry pings from child to parent, in case of

(local) communcation problems. Also log exit status, so that one

can distinguish patricide from other deaths. (omalley via cutting)

17. Fix HADOOP-142. Avoid re-running a task on a host where it has

previously failed. (omalley via cutting)

18. Fix HADOOP-148. Maintain a task failure count for each

tasktracker and display it in the web ui. (omalley via cutting)

19. Fix HADOOP-151. Close a potential socket leak, where new IPC

connection pools were created per configuration instance that RPCs

use. Now a global RPC connection pool is used again, as

originally intended. (cutting)

20. Fix HADOOP-69. Don't throw a NullPointerException when getting

hints for non-existing file split. (Bryan Pendelton via cutting)

21. Fix HADOOP-157. When a task that writes dfs files (e.g., a reduce

task) failed and was retried, it would fail again and again,

eventually failing the job. The problem was that dfs did not yet

know that the failed task had abandoned the files, and would not

yet let another task create files with the same names. Dfs now

retries when creating a file long enough for locks on abandoned

files to expire. (omalley via cutting)

22. Fix HADOOP-150. Improved task names that include job

names. (omalley via cutting)

23. Fix HADOOP-162. Fix ConcurrentModificationException when

releasing file locks. (omalley via cutting)

24. Fix HADOOP-132. Initial check-in of new Metrics API, including

implementations for writing metric data to a file and for sending

it to Ganglia. (David Bowen via cutting)

25. Fix HADOOP-160. Remove some uneeded synchronization around

time-consuming operations in the TaskTracker. (omalley via cutting)

26. Fix HADOOP-166. RPCs failed when passed subclasses of a declared

parameter type. This is fixed by changing ObjectWritable to store

both the declared type and the instance type for Writables. Note

that this incompatibly changes the format of ObjectWritable and

will render unreadable any ObjectWritables stored in files.

Nutch only uses ObjectWritable in intermediate files, so this

should not be a problem for Nutch. (Stefan & cutting)

27. Fix HADOOP-168. MapReduce RPC protocol methods should all declare

IOException, so that timeouts are handled appropriately.

(omalley via cutting)

28. Fix HADOOP-169. Don't fail a reduce task if a call to the

jobtracker to locate map outputs fails. (omalley via cutting)

29. Fix HADOOP-170. Permit FileSystem clients to examine and modify

the replication count of individual files. Also fix a few

replication-related bugs. (Konstantin Shvachko via cutting)

30. Permit specification of a higher replication levels for job

submission files (job.xml and job.jar). This helps with large

clusters, since these files are read by every node. (cutting)

31. HADOOP-173. Optimize allocation of tasks with local data. (cutting)

32. HADOOP-167. Reduce number of Configurations and JobConf's

created. (omalley via cutting)

33. NUTCH-256. Change FileSystem#createNewFile() to create a .crc

file. The lack of a .crc file was causing warnings. (cutting)

34. HADOOP-174. Change JobClient to not abort job until it has failed

to contact the job tracker for five attempts, not just one as

before. (omalley via cutting)

35. HADOOP-177. Change MapReduce web interface to page through tasks.

Previously, when jobs had more than a few thousand tasks they

could crash web browsers. (Mahadev Konar via cutting)

36. HADOOP-178. In DFS, piggyback blockwork requests from datanodes

on heartbeat responses from namenode. This reduces the volume of

RPC traffic. Also move startup delay in blockwork from datanode

to namenode. This fixes a problem where restarting the namenode

triggered a lot of uneeded replication. (Hairong Kuang via cutting)

37. HADOOP-183. If the DFS namenode is restarted with different

minimum and/or maximum replication counts, existing files'

replication counts are now automatically adjusted to be within the

newly configured bounds. (Hairong Kuang via cutting)

38. HADOOP-186. Better error handling in TaskTracker's top-level

loop. Also improve calculation of time to send next heartbeat.

(omalley via cutting)

39. HADOOP-187. Add two MapReduce examples/benchmarks. One creates

files containing random data. The second sorts the output of the

first. (omalley via cutting)

40. HADOOP-185. Fix so that, when a task tracker times out making the

RPC asking for a new task to run, the job tracker does not think

that it is actually running the task returned. (omalley via cutting)

41. HADOOP-190. If a child process hangs after it has reported

completion, its output should not be lost. (Stack via cutting)

42. HADOOP-184. Re-structure some test code to better support testing

on a cluster. (Mahadev Konar via cutting)

43. HADOOP-191 Add streaming package, Hadoop's first contrib module.

This permits folks to easily submit MapReduce jobs whose map and

reduce functions are implemented by shell commands. Use

'bin/hadoop jar build/hadoop-streaming.jar' to get details.

(Michel Tourn via cutting)

44. HADOOP-189. Fix MapReduce in standalone configuration to

correctly handle job jar files that contain a lib directory with

nested jar files. (cutting)

45. HADOOP-65. Initial version of record I/O framework that enables

the specification of record types and generates marshalling code

in both Java and C++. Generated Java code implements

WritableComparable, but is not yet otherwise used by

Hadoop. (Milind Bhandarkar via cutting)

46. HADOOP-193. Add a MapReduce-based FileSystem benchmark.

(Konstantin Shvachko via cutting)

47. HADOOP-194. Add a MapReduce-based FileSystem checker. This reads

every block in every file in the filesystem. (Konstantin Shvachko

via cutting)

48. HADOOP-182. Fix so that lost task trackers to not change the

status of reduce tasks or completed jobs. Also fixes the progress

meter so that failed tasks are subtracted. (omalley via cutting)

49. HADOOP-96. Logging improvements. Log files are now separate from

standard output and standard error files. Logs are now rolled.

Logging of all DFS state changes can be enabled, to facilitate

debugging. (Hairong Kuang via cutting)

Release 0.1.1 - 2006-04-08

1. Added CHANGES.txt, logging all significant changes to Hadoop. (cutting)

2. Fix MapReduceBase.close() to throw IOException, as declared in the

Closeable interface. This permits subclasses which override this

method to throw that exception. (cutting)

3. Fix HADOOP-117. Pathnames were mistakenly transposed in

JobConf.getLocalFile() causing many mapred temporary files to not

be removed. (Raghavendra Prabhu via cutting)

4. Fix HADOOP-116. Clean up job submission files when jobs complete.

(cutting)

5. Fix HADOOP-125. Fix handling of absolute paths on Windows (cutting)

Release 0.1.0 - 2006-04-01

1. The first release of Hadoop.

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/CHANGES.txt**

Hadoop MapReduce Change Log

Release 2.6.5 - 2016-10-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-6413. TestLocalJobSubmission is failing with unknown host

(zhihai xu via jlowe)

MAPREDUCE-6191. Improve clearing stale state of Java serialization

testcase. (Sam Liu via Eric Yang)

MAPREDUCE-6635. Unsafe long to int conversion in UncompressedSplitLineReader

and IndexOutOfBoundsException. (Junping Du via vvasudev)

MAPREDUCE-6622. Add capability to set JHS job cache to a

task-based limit (rchiang via rkanter)

MAPREDUCE-6656. [NNBench] OP\_DELETE operation isn't working after

MAPREDUCE-6363. (J.Andreina via aajisaka)

MAPREDUCE-6302. Preempt reducers after a configurable timeout

irrespective of headroom. (kasha via wangda)

MAPREDUCE-6514. Fixed MapReduce ApplicationMaster to properly updated

resources ask after ramping down of all reducers avoiding job hangs. (Varun

Saxena and Wangda Tan via vinodkv)

MAPREDUCE-6689. MapReduce job can infinitely increase number of reducer

resource requests (Wangda Tan via jlowe)

MAPREDUCE-6558. multibyte delimiters with compressed input files generate

duplicate records (Wilfred Spiegelenburg via jlowe)

MAPREDUCE-5817. Mappers get rescheduled on node transition even after all

reducers are completed. (Sangjin Lee via kasha)

MAPREDUCE-6637. Testcase Failure : TestFileInputFormat.testSplitLocationInfo.

(Brahma Reddy Battula via wang)

Release 2.6.4 - 2016-02-11

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-6436. JobHistory cache issue. (Kai Sasaki via zxu)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-6577. MR AM unable to load native library without

MR\_AM\_ADMIN\_USER\_ENV set (sjlee)

MAPREDUCE-5982. Task attempts that fail from the ASSIGNED state can

disappear (Chang Li via jlowe)

MAPREDUCE-6492. AsyncDispatcher exit with NPE on

TaskAttemptImpl#sendJHStartEventForAssignedFailTask (Bibin A Chundatt via

jlowe)

MAPREDUCE-6363. [NNBench] Lease mismatch error when running with multiple

mappers. (Vlad Sharanhovich and Bibin A Chundatt via aajisaka)

MAPREDUCE-6554. MRAppMaster servicestart failing with NPE in

MRAppMaster#parsePreviousJobHistory (Bibin A Chundatt via jlowe)

MAPREDUCE-6618. YarnClientProtocolProvider leaking the YarnClient thread.

(Xuan Gong via jlowe)

MAPREDUCE-6621. Memory Leak in JobClient#submitJobInternal() (Xuan Gong

via jlowe)

Release 2.6.3 - 2015-12-17

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-6273. HistoryFileManager should check whether summaryFile exists to

avoid FileNotFoundException causing HistoryFileInfo into MOVE\_FAILED state.

(zhihai xu via devaraj)

MAPREDUCE-6528. Memory leak for HistoryFileManager.getJobSummary()

(Junping Du via jlowe)

MAPREDUCE-6540. TestMRTimelineEventHandling fails (sjlee)

MAPREDUCE-6377. JHS sorting on state column not working in webUi.

(zhihai xu via devaraj)

MAPREDUCE-5948. org.apache.hadoop.mapred.LineRecordReader does not handle

multibyte record delimiters well (Vinayakumar B, Rushabh Shah, and Akira

AJISAKA via jlowe)

MAPREDUCE-6481. LineRecordReader may give incomplete record and wrong

position/key information for uncompressed input sometimes. (Zhihai Xu via

jlowe)

MAPREDUCE-5883. "Total megabyte-seconds" in job counters is slightly

misleading (Nathan Roberts via jlowe)

MAPREDUCE-6549. multibyte delimiters with LineRecordReader cause

duplicate records (wilfreds via rkanter)

MAPREDUCE-6619. HADOOP\_CLASSPATH is overwritten in MR container.

(Junping Du via jianhe)

Release 2.6.2 - 2015-10-28

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-6454. Fixed MapReduce to modify HADOOP\_CLASSPATH to have distributed

cache files so that child processes running hadoop scripts can access these

files. (Junping Du via vinodkv)

MAPREDUCE-6334. Fetcher#copyMapOutput is leaking usedMemory upon

IOException during InMemoryMapOutput shuffle handler (Eric Payne via jlowe)

MAPREDUCE-6497. Fix wrong value of JOB\_FINISHED event in

JobHistoryEventHandler. (Shinichi Yamashita via aajisaka)

Release 2.6.1 - 2015-09-23

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-6237. Multiple mappers with DBInputFormat don't work because of

reusing conections. (Kannan Rajah via ozawa)

MAPREDUCE-6166. Reducers do not validate checksum of map outputs when

fetching directly to disk. (Eric Payne via gera)

MAPREDUCE-6230. Fixed RMContainerAllocator to update the new AMRMToken

service name properly. (Jason Lowe via jianhe)

MAPREDUCE-6303. Read timeout when retrying a fetch error can be fatal

to a reducer. (Jason Lowe via junping\_du)

MAPREDUCE-6300. Task list sort by task id broken. (Siqi Li via aajisaka)

MAPREDUCE-6267. Refactor JobSubmitter#copyAndConfigureFiles into it's own

class. (Chris Trezzo via kasha)

MAPREDUCE-6238. MR2 can't run local jobs with -libjars command options

which is a regression from MR1 (zxu via rkanter)

MAPREDUCE-6324. Fixed MapReduce uber jobs to not fail the udpate of AM-RM

tokens when they roll-over. (Jason Lowe via vinodkv)

MAPREDUCE-5649. Reduce cannot use more than 2G memory for the final merge

(Gera Shegalov via jlowe)

MAPREDUCE-6361. NPE issue in shuffle caused by concurrent issue between

copySucceeded() in one thread and copyFailed() in another thread on the

same host. (Junping Du via ozawa)

Release 2.6.0 - 2014-11-18

INCOMPATIBLE CHANGES

NEW FEATURES

MAPREDUCE-5910. Make MR AM resync with RM in case of work-preserving

RM-restart. Contributed by Rohith

MAPREDUCE-5933. Enabled MR AM to post history events to the timeline server.

(Robert Kanter via zjshen)

IMPROVEMENTS

MAPREDUCE-5971. Move the default options for distcp -p to

DistCpOptionSwitch. (clamb via wang)

MAPREDUCE-5963. ShuffleHandler DB schema should be versioned with

compatible/incompatible changes (Junping Du via jlowe)

MAPREDUCE-6019. MapReduce changes for exposing YARN/MR endpoints on multiple

interfaces. (Craig Welch, Milan Potocnik, Arpit Agarwal via xgong)

MAPREDUCE-883. harchive: Document how to unarchive (Akira AJISAKA and

Koji Noguchi via aw)

MAPREDUCE-4791. Javadoc for KeyValueTextInputFormat should include default

separator and how to change it (Akira AJISAKA via aw)

MAPREDUCE-5906. Inconsistent configuration in property

"mapreduce.reduce.shuffle.input.buffer.percent" (Akira AJISAKA via aw)

MAPREDUCE-5974. Allow specifying multiple MapOutputCollectors with

fallback. (Todd Lipcon via kasha)

MAPREDUCE-5130. Add missing job config options to mapred-default.xml

(Ray Chiang via Sandy Ryza)

MAPREDUCE-5891. Improved shuffle error handling across NM restarts

(Junping Du via jlowe)

MAPREDUCE-5279. Made MR headroom calculation honor cpu dimension when YARN

scheduler resource type is memory plus cpu. (Peng Zhang and Varun Vasudev

via zjshen)

MAPREDUCE-6072. Remove INSTALL document (Akira AJISAKA via aw)

MAPREDUCE-5970. Provide a boolean switch to enable MR-AM profiling (Gera

Shegalov via jlowe)

MAPREDUCE-6018. Added an MR specific config to enable emitting job history

data to the timeline server. (Robert Kanter via zjshen)

MAPREDUCE-6052. Supported overriding the default container-log4j.properties

file per job. (Junping Du via zjshen)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-5866. TestFixedLengthInputFormat fails in windows.

(Varun Vasudev via cnauroth)

MAPREDUCE-5956. Made MR AM not use maxAttempts to determine if the current

attempt is the last retry. (Wangda Tan via zjshen)

MAPREDUCE-5957. AM throws ClassNotFoundException with job classloader

enabled if custom output format/committer is used (Sangjin Lee via jlowe)

MAPREDUCE-5756. CombineFileInputFormat.getSplits() including directories

in its results (Jason Dere via jlowe)

MAPREDUCE-6014. New task status field in task attempts table can lead to

an empty web page (Mit Desai via jlowe)

MAPREDUCE-6021. MR AM should have working directory in LD\_LIBRARY\_PATH

(jlowe)

MAPREDUCE-5944. Remove MRv1 commands from CommandsManual.apt.vm

(Akira AJISAKA via aw)

MAPREDUCE-5943. Separate mapred commands from CommandManual.apt.vm

(Akira AJISAKA via aw)

MAPREDUCE-5363. Fix doc and spelling for TaskCompletionEvent#getTaskStatus

and getStatus (Akira AJISAKA via aw)

MAPREDUCE-6010. HistoryServerFileSystemStateStore fails to update tokens

(jlowe)

MAPREDUCE-5595. Typo in MergeManagerImpl.java (Akira AJISAKA via aw)

MAPREDUCE-5597. Missing alternatives in javadocs for deprecated constructors

in mapreduce.Job (Akira AJISAKA via aw)

MAPREDUCE-5950. incorrect description in distcp2 document (Akira AJISAKA

via aw)

MAPREDUCE-5998. CompositeInputFormat javadoc is broken (Akira AJISAKA via

aw)

MAPREDUCE-5999. Fix dead link in InputFormat javadoc (Akira AJISAKA via aw)

MAPREDUCE-5878. some standard JDK APIs are not part of system classes

defaults (Sangjin Lee via jlowe)

MAPREDUCE-6032. Made MR jobs write job history files on the default FS when

the current context's FS is different. (Benjamin Zhitomirsky via zjshen)

MAPREDUCE-6024. Shortened the time when Fetcher is stuck in retrying before

concluding the failure by configuration. (Yunjiong Zhao via zjshen)

MAPREDUCE-6036. TestJobEndNotifier fails intermittently in branch-2 (chang

li via jlowe)

MAPREDUCE-6012. DBInputSplit creates invalid ranges on Oracle.

(Wei Yan via kasha)

MAPREDUCE-6044. Fully qualified intermediate done dir path breaks per-user dir

creation on Windows. (zjshen)

MAPREDUCE-5885. build/test/test.mapred.spill causes release audit warnings

(Chen He via jlowe)

BREAKDOWN OF HDFS-6134 AND HADOOP-10150 SUBTASKS AND RELATED JIRAS

MAPREDUCE-5890. Support for encrypting Intermediate

data and spills in local filesystem. (asuresh via tucu)

MAPREDUCE-6007. Add support to distcp to preserve raw.\* namespace

extended attributes. (clamb)

MAPREDUCE-6041. Fix TestOptionsParser. (clamb)

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MAPREDUCE-6051. Fix typos in log messages. (Ray Chiang via cdouglas)

MAPREDUCE-5931. Validate SleepJob command line parameters (Gera Shegalov

via jlowe)

MAPREDUCE-6063. Correct spill size calculation for spills wrapping the

circular buffer. (zhihai xu via cdouglas)

MAPREDUCE-6071. JobImpl#makeUberDecision doesn't log that Uber mode is

disabled because of too much CPUs (Tsuyoshi OZAWA via jlowe)

MAPREDUCE-6075. HistoryServerFileSystemStateStore can create zero-length

files (jlowe)

MAPREDUCE-6070. yarn.app.am.resource.mb/cpu-vcores affects uber mode but

is not documented (Tsuyoshi OZAWA via jlowe)

MAPREDUCE-6090. mapred hsadmin getGroups fails to connect in some cases

(Robert Kanter via jlowe)

MAPREDUCE-6086. mapreduce.job.credentials.binary should allow all URIs.

(Zhihai Xu via kasha)

MAPREDUCE-6091. YARNRunner.getJobStatus() fails with

ApplicationNotFoundException if the job rolled off the RM view (Sangjin

Lee via jlowe)

MAPREDUCE-6095. Enable DistributedCache for uber-mode Jobs (Gera Shegalov

via jlowe)

MAPREDUCE-6104. TestJobHistoryParsing.testPartialJob fails in branch-2

(Mit Desai via jlowe)

MAPREDUCE-6109. Fix minor typo in distcp -p usage text (Charles Lamb

via aw)

MAPREDUCE-6093. minor distcp doc edits (Charles Lamb via aw)

MAPREDUCE-5831. Make MR client ignore unknown counters received from AM.

(Junping Du via zjshen)

MAPREDUCE-6073. Description of mapreduce.job.speculative.slowtaskthreshold

in mapred-default should be moved into description tags (Tsuyoshi OZAWA

via aw)

MAPREDUCE-5796. Use current version of the archive name in

DistributedCacheDeploy document (Akira AJISAKA via aw)

MAPREDUCE-5945. Update the description of GenericOptionsParser -jt

option (Akira AJISAKA via aw)

MAPREDUCE-6087. Fixed wrong config name of

MRJobConfig#MR\_CLIENT\_TO\_AM\_IPC\_MAX\_RETRIES\_ON\_TIMEOUTS. Contributed by

Akira AJISAKA. (Akira AJISAKA via jianhe)

MAPREDUCE-6094. TestMRCJCFileInputFormat.testAddInputPath() fails on trunk

(Akira AJISAKA via jlowe)

MAPREDUCE-6029. TestCommitterEventHandler fails in trunk (Mit Desai via

jlowe)

MAPREDUCE-6122. TestLineRecordReader may fail due to test data files checked

out of git with incorrect line endings. (cnauroth)

MAPREDUCE-6123. TestCombineFileInputFormat incorrectly starts 2

MiniDFSCluster instances. (cnauroth)

MAPREDUCE-6125. TestContainerLauncherImpl sometimes fails (Mit Desai via

jlowe)

MAPREDUCE-6115. TestPipeApplication#testSubmitter fails in trunk (Binglin

Chang via jlowe)

MAPREDUCE-5873. Shuffle bandwidth computation includes time spent waiting

for maps (Siqi Li via jlowe)

MAPREDUCE-5542. Killing a job just as it finishes can generate an NPE in

client (Rohith via jlowe)

MAPREDUCE-6126. Fixed Rumen JobBuilder to ignore NormalizedResourceEvent.

(Junping Du via jianhe)

MAPREDUCE-6142. Fixed test failures in TestJobHistoryEventHandler and

TestMRTimelineEventHandling. (Zhijie Shen via vinodkv)

MAPREDUCE-6022. map\_input\_file is missing from streaming job environment.

(jlowe via kihwal)

MAPREDUCE-6048. Fixed TestJavaSerialization failure. (Varun Vasudev via

jianhe)

MAPREDUCE-5960. JobSubmitter's check whether job.jar is local is incorrect

with no authority in job jar path. (Gera Shegalov via jlowe)

MAPREDUCE-5958. Wrong reduce task progress if map output is compressed

(Emilio Coppa and jlowe via kihwal)

MAPREDUCE-6156. Fetcher - connect() doesn't handle connection refused

correctly (Junping Du via jlowe)

Release 2.5.2 - 2014-11-19

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.5.1 - 2014-09-05

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-6033. Updated access check for displaying job information

(Yu Gao via Eric Yang)

Release 2.5.0 - 2014-08-11

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-5671. NaN can be created by client and assign to Progress (Chen

He via jeagles)

MAPREDUCE-5665. Add audience annotations to MiniMRYarnCluster and

MiniMRCluster. (Anubhav Dhoot via kasha)

MAPREDUCE-5765. Update hadoop-pipes examples README (Mit Desai via jeagles)

MAPREDUCE-5713. InputFormat and JobConf JavaDoc Fixes (Chen He via jeagles)

MAPREDUCE-5456. TestFetcher.testCopyFromHostExtraBytes is missing (Jason

Lowe via jeagles)

MAPREDUCE-5804. TestMRJobsWithProfiler#testProfiler timesout (Mit Desai

via kihwal)

MAPREDUCE-5825. Provide diagnostics for reducers killed during ramp down

(Gera Shegalov via jlowe)

MAPREDUCE-5836. Fix typo in RandomTextWriter (Akira AJISAKA via jeagles)

MAPREDUCE-5852. Prepare MapReduce codebase for JUnit 4.11. (cnauroth)

MAPREDUCE-5639. Port DistCp2 document to trunk (Akira AJISAKA via jeagles)

MAPREDUCE-5812. Make job context available to

OutputCommitter.isRecoverySupported() (Mohammad Kamrul Islam via jlowe)

MAPREDUCE-5638. Port Hadoop Archives document to trunk (Akira AJISAKA via

jeagles)

MAPREDUCE-5402. In DynamicInputFormat, change MAX\_CHUNKS\_TOLERABLE,

MAX\_CHUNKS\_IDEAL, MIN\_RECORDS\_PER\_CHUNK and SPLIT\_RATIO to be configurable.

(Tsuyoshi OZAWA via szetszwo)

MAPREDUCE-5637. Convert Hadoop Streaming document to APT (Akira AJISAKA via

jeagles)

MAPREDUCE-5636. Convert MapReduce Tutorial document to APT (Akira AJISAKA

via jeagles)

MAPREDUCE-5774. Job overview in History UI should list reducer phases in

chronological order. (Gera Shegalov via kasha)

MAPREDUCE-5652. NM Recovery. ShuffleHandler should handle NM restarts.

(Jason Lowe via kasha)

MAPREDUCE-5861. finishedSubMaps field in LocalContainerLauncher does not

need to be volatile. (Tsuyoshi OZAWA via junping\_du)

MAPREDUCE-5809. Enhance distcp to support preserving HDFS ACLs. (cnauroth)

MAPREDUCE-5899. Support incremental data copy in DistCp. (jing9)

MAPREDUCE-5886. Allow wordcount example job to accept multiple input paths.

(cnauroth)

MAPREDUCE-5834. Increased test-timeouts in TestGridMixClasses to avoid

occassional failures. (Mit Desai via vinodkv)

MAPREDUCE-5896. InputSplits should indicate which locations have the block

cached in memory. (Sandy Ryza via kasha)

MAPREDUCE-5844. Add a configurable delay to reducer-preemption.

(Maysam Yabandeh via kasha)

MAPREDUCE-5790. Made it easier to enable hprof profile options by default.

(Gera Shegalov via vinodkv)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-5759. Remove unnecessary conf load in Limits (Sandy Ryza)

MAPREDUCE-5014. Extend Distcp to accept a custom CopyListing.

(Srikanth Sundarrajan via amareshwari)

MAPREDUCE-5775. Remove unnecessary job.setNumReduceTasks in SleepJob.createJob

(jhanver chand sharma via devaraj)

MAPREDUCE-4937. MR AM handles an oversized split metainfo file poorly

(Eric Payne via jlowe)

MAPREDUCE-5642. TestMiniMRChildTask fails on Windows.

(Chuan Liu via cnauroth)

MAPREDUCE-5846. Rumen doesn't understand JobQueueChangedEvent (Nathan Roberts via raviprak)

MAPREDUCE-5837. MRAppMaster fails when checking on uber mode. (wheat9)

MAPREDUCE-5749. TestRMContainerAllocator#testReportedAppProgress Failed

(jlowe)

MAPREDUCE-5884. History server uses short user name when canceling tokens

(Mohammad Kamrul Islam via jlowe)

MAPREDUCE-5888. Failed job leaves hung AM after it unregisters (Jason Lowe

via jeagles)

MAPREDUCE-5814. fat jar with \*-default.xml may fail when

mapreduce.job.classloader=true. (Gera Shegalov via jlowe)

MAPREDUCE-5309. 2.0.4 JobHistoryParser can't parse certain failed job

history files generated by 2.0.3 history server (Rushabh S Shah via jlowe)

MAPREDUCE-5862. Line records longer than 2x split size aren't handled

correctly (bc Wong via jlowe)

MAPREDUCE-5895. Close streams properly to avoid leakage in TaskLog.

(Kousuke Saruta via devaraj)

MAPREDUCE-5777. Support utf-8 text with Byte Order Marker.

(Zhihai Xu via kasha)

MAPREDUCE-5898. distcp to support preserving HDFS extended attributes(XAttrs)

(Yi Liu via umamahesh)

MAPREDUCE-5920. Add Xattr option in DistCp docs. (Yi Liu via cnauroth)

MAPREDUCE-5924. Changed TaskAttemptImpl to ignore TA\_COMMIT\_PENDING event

at COMMIT\_PENDING state. (Zhijie Shen via jianhe)

MAPREDUCE-5939. StartTime showing up as the epoch time in JHS UI after

upgrade (Chen He via jlowe)

MAPREDUCE-5900. Changed to the interpret container preemption exit code as a

task attempt killing event. (Mayank Bansal via zjshen)

MAPREDUCE-5868. Fixed an issue with TestPipeApplication that was causing the

nightly builds to fail. (Akira Ajisaka via vinodkv)

MAPREDUCE-5517. Fixed MapReduce ApplicationMaster to not validate reduce side

resource configuration for deciding uber-mode on map-only jobs. (Siqi Li via

vinodkv)

MAPREDUCE-5952. LocalContainerLauncher#renameMapOutputForReduce incorrectly

assumes a single dir for mapOutIndex. (Gera Shegalov via kasha)

MAPREDUCE-6002. Made MR task avoid reporting error to AM when the task process

is shutting down. (Wangda Tan via zjshen)

Release 2.4.1 - 2014-06-23

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-5830. Added back the private API HostUtil.getTaskLogUrl(..) for

binary compatibility with older clients like Hive 0.13. (Akira Ajisaka via

vinodkv)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-5714. Removed forceful JVM exit in shutDownJob.

(Jinghui Wang via Eric Yang)

MAPREDUCE-5818. Added "hsadmin" command into mapred.cmd. (Jian He via zjshen)

MAPREDUCE-5824. Fixed test-failure of TestPipesNonJavaInputFormat in

Windows. (Xuan Gong via vinodkv)

MAPREDUCE-5815. Fixed test-failure of TestMRAppMaster by making MRAppMaster

gracefully handle empty-queue names. (Akira Ajisaka via vinodkv)

MAPREDUCE-5826. Fixed HistoryServerFileSystemStore to use right permissions

on Windows for temporary files and thus also fix the test-issue with

TestHistoryServerFileSystemStateStoreService. (Varun Vasudev via vinodkv)

MAPREDUCE-5828. Fixed a test issue with TestMapReduceJobControl that was

causing it to fail on Windows. (vinodkv)

MAPREDUCE-5827. TestSpeculativeExecutionWithMRApp fails.

(Zhijie Shen via cnauroth)

MAPREDUCE-5833. TestRMContainerAllocator fails ocassionally.

(Zhijie Shen via cnauroth)

MAPREDUCE-5832. Fixed TestJobClient to not fail on JDK7 or on Windows. (Jian

He and Vinod Kumar Vavilapalli via vinodkv)

MAPREDUCE-5841. uber job doesn't terminate on getting mapred job kill

(Sangjin Lee via jlowe)

MAPREDUCE-5843. Fixed TestMRKeyValueTextInputFormat to not leak files and

thus avoid failing on Windows. (Varun Vasudev via vinodkv)

MAPREDUCE-5835. Killing Task might cause the job to go to ERROR state

(Ming Ma via jlowe)

MAPREDUCE-5821. Avoid unintentional reallocation of byte arrays in segments

during merge. (Todd Lipcon via cdouglas)

Release 2.4.0 - 2014-04-07

INCOMPATIBLE CHANGES

NEW FEATURES

MAPREDUCE-5787. Added the ability to keep alive shuffle connections in the

MapReduce shuffle-handler. (Rajesh Balamohan via vinodkv)

IMPROVEMENTS

MAPREDUCE-5464. Add analogs of the SLOTS\_MILLIS counters that jive with the

YARN resource model (Sandy Ryza)

MAPREDUCE-5732. Report proper queue when job has been automatically placed

(Sandy Ryza)

MAPREDUCE-5699. Allow setting tags on MR jobs (kasha)

MAPREDUCE-5761. Added a simple log message to denote when encrypted shuffle

is on in the shuffle-handler. (Jian He via vinodkv)

MAPREDUCE-5754. Preserve Job diagnostics in history (Gera Shegalov via

jlowe)

MAPREDUCE-5773. Provide dedicated MRAppMaster syslog length limit (Gera

Shegalov via jlowe)

MAPREDUCE-5553. Allow users to easily access

completed/pending/successful/failed tasks on MR AM web-ui. (Paul Han via

acmurthy)

MAPREDUCE-4052. Improved MapReduce clients to use NodeManagers' ability to

handle cross platform application submissions. (Jian He via vinodkv)

MAPREDUCE-2349. Modified FileInputFormat to be able to issue file and block

location calls in parallel. (Siddharth Seth via vinodkv)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-5746. Job diagnostics can implicate wrong task for a failed job.

(Jason Lowe via kasha)

MAPREDUCE-5670. CombineFileRecordReader should report progress when moving

to the next file (Chen He via jlowe)

MAPREDUCE-5757. ConcurrentModificationException in JobControl.toList

(jlowe)

MAPREDUCE-5770. Fixed MapReduce ApplicationMaster to correctly redirect

to the YARN's web-app proxy with the correct scheme prefix. (Jian He via

vinodkv)

MAPREDUCE-5768. TestMRJobs.testContainerRollingLog fails on trunk (Gera

Shegalov via jlowe)

MAPREDUCE-5780. SliveTest should use the specified path to get the

particular FileSystem instead of using the default FileSystem. (szetszwo)

MAPREDUCE-5028. Fixed a bug in MapTask that was causing mappers to fail

when a large value of io.sort.mb is set. (Karthik Kambatla via vinodkv)

MAPREDUCE-5778. JobSummary does not escape newlines in the job name (Akira

AJISAKA via jlowe)

MAPREDUCE-5789. Average Reduce time is incorrect on Job Overview page

(Rushabh S Shah via jlowe)

MAPREDUCE-5794. SliveMapper always uses default FileSystem. (szetszwo via

Arpit Agarwal)

MAPREDUCE-5751. MR app master fails to start in some cases if

mapreduce.job.classloader is true (Sangjin Lee via jlowe)

MAPREDUCE-5688. TestStagingCleanup fails intermittently with JDK7 (Mit

Desai via jeagles)

MAPREDUCE-5769. Unregistration to RM should not be called if AM is crashed

before registering with RM (Rohith via jlowe)

MAPREDUCE-5570. Map task attempt with fetch failure has incorrect attempt

finish time (Rushabh S Shah via jlowe)

MAPREDUCE-5806. Fixed a bug in MRAppMaster so as to enable users to properly

override HADOOP\_ROOT\_LOGGER or HADOOP\_CLIENT\_OPTS. (Varun Vasudev via

vinodkv)

MAPREDUCE-5791. Shuffle phase is slow in Windows -

FadviseFileRegion::transferTo does not read disks efficiently.

(Nikola Vujic via cnauroth)

MAPREDUCE-5795. Fixed MRAppMaster to record the correct job-state after it

recovers from a commit during a previous attempt. (Xuan Gong via vinodkv)

MAPREDUCE-5805. Fixed MapReduce JobHistory encoding of queue-name to escape

hyphens and thus avoid parsing errors. (Akira AJISAKA via vinodkv)

MAPREDUCE-5810. Removed the faulty and failing streaming test

TestStreamingTaskLog. (Akira Ajisaka via vinodkv)

MAPREDUCE-5813. Fix YarnChild to explicitly load job.xml from the

local-filesystem, rather than rely on the classpath. (Gera Shegalov via

acmurthy)

Release 2.3.1 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.3.0 - 2014-02-18

INCOMPATIBLE CHANGES

NEW FEATURES

MAPREDUCE-5265. History server admin service to refresh user and superuser

group mappings (Ashwin Shankar via jlowe)

MAPREDUCE-5356. Ability to refresh aggregated log retention period and

check interval (Ashwin Shankar via jlowe)

MAPREDUCE-5386. Ability to refresh history server job retention and job

cleaner settings (Ashwin Shankar via jlowe)

MAPREDUCE-5411. Refresh size of loaded job cache on history server (Ashwin

Shankar via jlowe)

MAPREDUCE-5332. Support token-preserving restart of history server (jlowe)

IMPROVEMENTS

MAPREDUCE-5329. Allow MR applications to use additional AuxServices,

which are compatible with the default MapReduce shuffle.

(Avner BenHanoch via sseth)

MAPREDUCE-5463. Deprecate SLOTS\_MILLIS counters (Tzuyoshi Ozawa via Sandy

Ryza)

MAPREDUCE-5457. Add a KeyOnlyTextOutputReader to enable streaming to write

out text files without separators (Sandy Ryza)

MAPREDUCE-5596. Allow configuring the number of threads used to serve

shuffle connections (Sandy Ryza via jlowe)

MAPREDUCE-434. LocalJobRunner limited to single reducer (Sandy Ryza and

Aaron Kimball via Sandy Ryza)

MAPREDUCE-4421. Run MapReduce framework via the distributed cache (jlowe)

MAPREDUCE-1176. FixedLengthInputFormat and FixedLengthRecordReader

(Mariappan Asokan and BitsOfInfo via Sandy Ryza)

MAPREDUCE-5613. DefaultSpeculator holds and checks hashmap that is always

empty (Gera Shegalov via Sandy Ryza)

MAPREDUCE-5431. Missing pom dependency in MR-client (Timothy St. Clair

via stevel)

MAPREDUCE-5624 Move grizzly-test and junit dependencies to test scope

(Ted Yu via stevel)

MAPREDUCE-5481. Enable uber jobs to have multiple reducers (Sandy Ryza)

MAPREDUCE-5052. Job History UI and web services confusing job start time and

job submit time (Chen He via jeagles)

MAPREDUCE-5692. Add explicit diagnostics when a task attempt is killed due

to speculative execution (Gera Shegalov via Sandy Ryza)

MAPREDUCE-5550. Task Status message (reporter.setStatus) not shown in UI

with Hadoop 2.0 (Gera Shegalov via Sandy Ryza)

MAPREDUCE-3310. Custom grouping comparator cannot be set for Combiners (tucu)

MAPREDUCE-5672. Provide optional RollingFileAppender for container log4j

(syslog) (Gera Shegalov via jlowe)

MAPREDUCE-5725. Make explicit that TestNetworkedJob relies on the Capacity

Scheduler (Sandy Ryza)

MAPREDUCE-5744. Job hangs because

RMContainerAllocator$AssignedRequests.preemptReduce() violates the

comparator contract (Gera Shegalov via kasha)

OPTIMIZATIONS

MAPREDUCE-4680. Job history cleaner should only check timestamps of files in

old enough directories (Robert Kanter via Sandy Ryza)

MAPREDUCE-5484. YarnChild unnecessarily loads job conf twice (Sandy Ryza)

MAPREDUCE-5487. In task processes, JobConf is unnecessarily loaded again

in Limits (Sandy Ryza)

MAPREDUCE-5601. ShuffleHandler fadvises file regions as DONTNEED even when

fetch fails (Sandy Ryza)

BUG FIXES

MAPREDUCE-5569. FloatSplitter is not generating correct splits (Nathan

Roberts via jlowe)

MAPREDUCE-5546. mapred.cmd on Windows set HADOOP\_OPTS incorrectly (Chuan Liu

via cnauroth)

MAPREDUCE-5518. Fixed typo "can't read paritions file". (Albert Chu

via devaraj)

MAPREDUCE-5561. org.apache.hadoop.mapreduce.v2.app.job.impl.TestJobImpl

testcase failing on trunk (Karthik Kambatla via jlowe)

MAPREDUCE-5598. TestUserDefinedCounters.testMapReduceJob is flakey

(Robert Kanter via jlowe)

MAPREDUCE-5604. TestMRAMWithNonNormalizedCapabilities fails on Windows due to

exceeding max path length. (cnauroth)

MAPREDUCE-5451. MR uses LD\_LIBRARY\_PATH which doesn't mean anything in

Windows. (Yingda Chen via cnauroth)

MAPREDUCE-5409. MRAppMaster throws InvalidStateTransitonException: Invalid

event: TA\_TOO\_MANY\_FETCH\_FAILURE at KILLED for TaskAttemptImpl (Gera

Shegalov via jlowe)

MAPREDUCE-5674. Missing start and finish time in mapred.JobStatus.

(Chuan Liu via cnauroth)

MAPREDUCE-5650. Job fails when hprof mapreduce.task.profile.map/reduce.params

is specified (Gera Shegalov via Sandy Ryza)

MAPREDUCE-5316. job -list-attempt-ids command does not handle illegal

task-state (Ashwin Shankar via jlowe)

MAPREDUCE-5380. Invalid mapred command should return non-zero exit code

(Stephen Chu via jlowe)

MAPREDUCE-5404. HSAdminServer does not use ephemeral ports in minicluster

mode (Ted Yu via jlowe)

MAPREDUCE-5522. Incorrect oreder expected from JobQueueInfo (Jinghui Wang

via bobby)

MAPREDUCE-5514. Fix TestRMContainerAllocator. (Zhijie Shen via acmurthy)

MAPREDUCE-5102. fix coverage org.apache.hadoop.mapreduce.lib.db and

org.apache.hadoop.mapred.lib.db (Aleksey Gorshkov, Andrey Klochkov, and

Nathan Roberts via jlowe)

MAPREDUCE-5585. TestCopyCommitter#testNoCommitAction Fails on JDK7

(jeagles)

MAPREDUCE-5186. mapreduce.job.max.split.locations causes some splits

created by CombineFileInputFormat to fail (Robert Parker and Jason Lowe

via jlowe)

MAPREDUCE-5610. TestSleepJob fails in jdk7 (Jonathan Eagles via jlowe)

MAPREDUCE-5616. MR Client-AppMaster RPC max retries on socket timeout is too

high. (cnauroth)

MAPREDUCE-5625. TestFixedLengthInputFormat fails in jdk7 environment

(Mariappan Asokan via jeagles)

MAPREDUCE-5631. TestJobEndNotifier.testNotifyRetries fails with Should

have taken more than 5 seconds in jdk7 (Jonathan Eagles via jlowe)

MAPREDUCE-5645. TestFixedLengthInputFormat fails with native libs (Mit

Desai via jeagles)

MAPREDUCE-5632. TestRMContainerAllocator#testUpdatedNodes fails (jeagles)

MAPREDUCE-5656. bzip2 codec can drop records when reading data in splits

(jlowe)

MAPREDUCE-5623. TestJobCleanup fails because of RejectedExecutionException

and NPE. (jlowe)

MAPREDUCE-5679. TestJobHistoryParsing has race condition (Liyin Liang via

jlowe)

MAPREDUCE-5687. Fixed failure in TestYARNRunner caused by YARN-1446. (Jian He

via vinodkv)

MAPREDUCE-5694. Fixed MR AppMaster to shutdown the LogManager so as to avoid

losing syslog in some conditions. (Mohammad Kamrul Islam via vinodkv)

MAPREDUCE-5685. Fixed a bug with JobContext getCacheFiles API inside the

WrappedReducer class. (Yi Song via vinodkv)

MAPREDUCE-5689. MRAppMaster does not preempt reducers when scheduled maps

cannot be fulfilled. (lohit via kasha)

MAPREDUCE-5724. JobHistoryServer does not start if HDFS is not running.

(tucu)

MAPREDUCE-5729. mapred job -list throws NPE (kasha)

MAPREDUCE-5693. Restore MRv1 behavior for log flush (Gera Shegalov via

jlowe)

MAPREDUCE-5723. MR AM container log can be truncated or empty.

(Mohammad Kamrul Islam via kasha)

MAPREDUCE-5743. Fixed the test failure in TestRMContainerAllocator.

(Ted Yu and Vinod Kumar Vavilapalli via zjshen)

Release 2.2.0 - 2013-10-13

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-5504. mapred queue -info inconsistent with types (Kousuke Saruta

via tgraves)

MAPREDUCE-5488. Changed MR client to keep trying to reach the application

when it sees that on attempt's AM is down. (Jian He via vinodkv)

MAPREDUCE-5515. Fixed MR AM's webapp to depend on a new config

mapreduce.ssl.enabled to enable https and disabling it by default as MR AM

needs to set up its own certificates etc and not depend on clusters'.

(Omkar Vinit Joshi via vinodkv)

MAPREDUCE-5505. Clients should be notified job finished only after job

successfully unregistered (Zhijie Shen via bikas)

MAPREDUCE-5503. Fixed a test issue in TestMRJobClient. (Jian He via vinodkv)

MAPREDUCE-5170. Fixed a wrong log message in CombineFileInputFormat class.

(Sangjin Lee via vinodkv)

MAPREDUCE-5525. Increase timeout of TestDFSIO.testAppend and

TestMRJobsWithHistoryService.testJobHistoryData. (Chuan Liu via cnauroth)

MAPREDUCE-5513. ConcurrentModificationException in JobControl (Robert

Parker via jlowe)

MAPREDUCE-5531. Fix compat with hadoop-1 in mapreduce.(TaskID,

TaskAttemptID) by re-introducing missing constructors. (Robert Kanter via

acmurthy)

MAPREDUCE-5545. org.apache.hadoop.mapred.TestTaskAttemptListenerImpl.testCommitWindow

times out (Robert Kanter via jlowe)

MAPREDUCE-5529. Fix compat with hadoop-1 in mapred.TotalOrderPartitioner

by re-introducing (get,set)PartitionFile which takes in JobConf. (Robert

Kanter via acmurthy)

MAPREDUCE-5538. Fixed MR AppMaster to send job-notification URL only after

the job is really done - a bug caused by MAPREDUCE-5505. (Zhijie Shen via

vinodkv)

MAPREDUCE-5551. Fix compat with hadoop-1 in

SequenceFileAsBinaryOutputFormat.WritableValueBytes by re-introducing

missing constructors. (Zhijie Shen via acmurthy)

MAPREDUCE-5544. JobClient#getJob loads job conf twice. (Sandy Ryza)

MAPREDUCE-5536. Fixed MR AM and JHS to respect

mapreduce.jobhistory.webapp.https.address. (Omkar Vinit Joshi via vinodkv)

MAPREDUCE-5530. Fix compat with hadoop-1 in

mapred.lib.CombinFileInputFormat by re-introducing

isSplittable(FileSystem, Path) api and ensuring semantic compatibility.

(Robert Kanter via acmurthy)

MAPREDUCE-5459. Update documentation on how to run MRv1 examples on YARN.

(Zhijie Shen via acmurthy)

MAPREDUCE-5554. hdfs-site.xml included in hadoop-mapreduce-client-jobclient

tests jar is breaking tests for downstream components (Robert Kanter via

Sandy Ryza)

MAPREDUCE-5489. MR jobs hangs as it does not use the node-blacklisting

feature in RM requests (Zhijie Shen via bikas)

MAPREDUCE-5442. $HADOOP\_MAPRED\_HOME/$HADOOP\_CONF\_DIR setting not working on

Windows. (Yingda Chen via cnauroth)

MAPREDUCE-5533. Fixed MR speculation code to track any TaskAttempts that

aren't heart-beating for a while, so that we can aggressively speculate

instead of waiting for task-timeout (Xuan Gong via vinodkv)

MAPREDUCE-5562. Fixed MR App Master to perform pending tasks like staging-dir

cleanup, sending job-end notification correctly when unregister with RM

fails. (Zhijie Shen via vinodkv)

Release 2.1.1-beta - 2013-09-23

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-5478. TeraInputFormat unnecessarily defines its own FileSplit

subclass (Sandy Ryza)

MAPREDUCE-5497. Changed MRAppMaster to sleep only after doing everything else

but just before ClientService to avoid race conditions during RM restart.

(Jian He via vinodkv)

MAPREDUCE-5379. Include token tracking ids in jobconf. (kkambatl via tucu)

MAPREDUCE-5523. Added separate configuration properties for https for JHS

without which even when https is enabled, it starts on http port itself.

(Omkar Vinit Joshi via vinodkv)

OPTIMIZATIONS

MAPREDUCE-5446. TestJobHistoryEvents and TestJobHistoryParsing have race

conditions (jlowe via kihwal)

MAPREDUCE-5462. In map-side sort, swap entire meta entries instead of

indexes for better cache performance. (Sandy Ryza)

MAPREDUCE-1981. Improve getSplits performance by using listLocatedStatus

(Hairong Kuang and Jason Lowe via jlowe)

BUG FIXES

MAPREDUCE-5385. Fixed a bug with JobContext getCacheFiles API. (Omkar Vinit

Joshi via vinodkv)

MAPREDUCE-5428. HistoryFileManager doesn't stop threads when service is

stopped (Karthik Kambatla via jlowe)

MAPREDUCE-5251. Reducer should not implicate map attempt if it has

insufficient space to fetch map output (Ashwin Shankar via jlowe)

MAPREDUCE-5317. Stale files left behind for failed jobs (Ravi Prakash via

jlowe)

MAPREDUCE-5358. MRAppMaster throws invalid transitions for JobImpl

(Devaraj K via jlowe)

MAPREDUCE-3193. FileInputFormat doesn't read files recursively in the

input path dir (Devaraj K via jlowe)

MAPREDUCE-5440. TestCopyCommitter Fails on JDK7 (Robert Parker via jlowe)

MAPREDUCE-5367. Local jobs all use same local working directory

(Sandy Ryza)

MAPREDUCE-5425. Junit in TestJobHistoryServer failing in jdk 7 (Robert

Parker via jlowe)

MAPREDUCE-5454. TestDFSIO fails intermittently on JDK7 (Karthik Kambatla

via Sandy Ryza)

MAPREDUCE-5001. LocalJobRunner has race condition resulting in job

failures (Sandy Ryza via jlowe)

MAPREDUCE-5466. Changed MR AM to not promote history files of intermediate

AMs in case they are exiting because of errors and thus help history-server

pick up the right history file for the last successful AM. (Jian He via

vinodkv)

MAPREDUCE-5468. Fix MR AM recovery for map-only jobs. (vinodkv via

acmurthy)

MAPREDUCE-5470. LocalJobRunner does not work on Windows. (Sandy Ryza via

cnauroth)

MAPREDUCE-5476. Changed MR AM recovery code to cleanup staging-directory

only after unregistering from the RM. (Jian He via vinodkv)

MAPREDUCE-5483. revert MAPREDUCE-5357. (rkanter via tucu)

MAPREDUCE-5441. Changed MR AM to return RUNNING state if exiting when RM

commands to reboot, so that client can continue to track the overall job.

(Jian He via vinodkv)

MAPREDUCE-5475. MRClientService does not verify ACLs properly (jlowe)

MAPREDUCE-5414. TestTaskAttempt fails in JDK7 with NPE (Nemon Lou via

devaraj)

MAPREDUCE-5020. Compile failure with JDK8 (Trevor Robinson via tgraves)

MAPREDUCE-5164. mapred job and queue commands omit HADOOP\_CLIENT\_OPTS

(Nemon Lou via devaraj)

MAPREDUCE-5493. Cleanup in-memory & on-disk segments to prevent leak on

shuffle completion. (jlowe via acmurthy)

Release 2.1.0-beta - 2013-08-22

INCOMPATIBLE CHANGES

MAPREDUCE-4067. Changed MRClientProtocol api to throw IOException only (Xuan

Gong via vinodkv)

MAPREDUCE-5234. Change mapred.TaskReport and mapreduce.TaskReport for binary

compatibility with mapred in 1.x but incompatible with 0.23.x. (Mayank Bansal

via vinodkv)

MAPREDUCE-5156. Change hadoop examples ProgramDriver to be able to run

1.x examples jar on top of YARN. This change breaks 0.23.x direct usages of

ProgramDriver. (Zhijie Shen via vinodkv)

MAPREDUCE-5233. Add methods that are changed or removed from JobControl.Job

when compared to 1.x. This breaks 0.23.x users of one API in Job. (Mayank

Bansal via vinodkv)

MAPREDUCE-5237. Add methods that were removed from ClusterStatus back into

2.x so as to be compatible with 1.x. Incompatible as

ClusterStatus.UNINITIALIZED\_MEMORY\_VALUE is a long now and so breaks 0.23.x

but it shouldn't be a big deal in reality. (Zhijie Shen via vinodkv)

NEW FEATURES

HADOOP-8562. Enhancements to support Hadoop on Windows Server and Windows

Azure environments. (See breakdown of tasks below for subtasks and

contributors)

IMPROVEMENTS

MAPREDUCE-3008. Improvements to cumulative CPU emulation for short running

tasks in Gridmix. (amarrk via tgraves)

MAPREDUCE-5033. mapred shell script should respect usage flags

(--help -help -h). (Andrew Wang via atm)

MAPREDUCE-4892. Modify CombineFileInputFormat to not skew input slits'

allocation on small clusters. (Bikas Saha via vinodkv)

MAPREDUCE-4990. Construct debug strings conditionally in

ShuffleHandler.Shuffle#sendMapOutput(). (kkambatl via tucu)

MAPREDUCE-4875. coverage fixing for org.apache.hadoop.mapred

(Aleksey Gorshkov via bobby)

MAPREDUCE-5129. Allow tags to JobHistory for deeper analytics. (billie via

acmurthy)

MAPREDUCE-3787. [Gridmix] Optimize job monitoring and STRESS mode for

faster job submission. (amarrk via tgraves)

MAPREDUCE-5079. Changes job recovery to restore state directly from job

history, instaed of simulating state machine events.

(Jason Lowe and Robert Parker via sseth)

MAPREDUCE-4981. Add WordMean, WordMedian, WordStandardDeviation

to ExamplesDriver. (Plamen Jeliazkov via shv)

MAPREUDUCE-5059. Change average merge time on Job overview page to be the

time delta between the end of the shuffle and the start of the reduce.

(Omkar Vinit Joshi via vinodkv)

MAPREDUCE-4985. Add compression option to TestDFSIO usage.

(Plamen Jeliazkov via shv)

MAPREDUCE-5152. Make MR App to simply pass through the container from RM

instead of extracting and populating information itself to start any

container. (vinodkv)

MAPREDUCE-5175. Updated MR App to not set envs that will be set by NMs

anyways after YARN-561. (Xuan Gong via vinodkv)

MAPREDUCE-5069. add concrete common implementations of

CombineFileInputFormat (Sangjin Lee via bobby)

MAPREDUCE-5145. Changed default max-attempts to be more than one for MR jobs

inline with YARN. (Zhijie Shen via vinodkv)

MAPREDUCE-5036. Default shuffle handler port should not be 8080.

(Sandy Ryza via tomwhite)

MAPREDUCE-5159. Change ValueAggregatorJob to add APIs which can support

binary compatibility with hadoop-1 examples. (Zhijie Shen via vinodkv)

MAPREDUCE-5157. Bring back old sampler related code so that we can support

binary compatibility with hadoop-1 sorter example. (Zhijie Shen via vinodkv)

MAPREDUCE-5222. Bring back some methods and constants in Jobclient for

binary compatibility with mapred in 1.x. (Karthik Kambatla via vinodkv)

MAPREDUCE-5235. Bring back old fields and exceptions in Counters for

binary compatibility with mapred in 1.x. (Mayank Bansal via vinodkv)

MAPREDUCE-5246. Specify application-type at the time of job submission after

YARN-563. (Mayank Bansal via vinodkv)

MAPREDUCE-5230. Bring back NLineInputFormat.createFileSplit for binary

compatibility with mapred in 1.x (Mayank Bansal via vinodkv)

MAPREDUCE-5270. Migrated MR app from using BuilderUtil factory methods to

individual record factory methods. (Jian He via vinodkv)

MAPREDUCE-5263. Bring back old methods and fields in

filecache.DistributedCache for binary compatibility with mapred in 1.x.

(Zhijie Shen via vinodkv)

MAPREDUCE-5228. Bring back FileInputFormat.Counter and

FileOuputFormat.Counter for binary compatibility with 1.x mapred APIs.

(Mayank Bansal via vinodkv)

MAPREDUCE-5176. Add annotation for tagging tasks as responsive to

preemption. (Carlo Curino, cdouglas)

MAPREDUCE-5275. Bring back a couple of APIs in mapreduce.security.TokenCache

for binary compatibility with 1.x mapreduce APIs. (Mayank Bansal via vinodkv)

MAPREDUCE-5231. Bring back a constructor in mapred's

DBInputFormat.DBRecordReader for binary compatibility with 1.x mapred APIs.

(Zhijie Shen via vinodkv)

MAPREDUCE-5273. Bring back a couple of protected variables in mapred and

mapreduce CombineFileRecordReader for binary compatibility with 1.x APIs.

(Mayank Bansal via vinodkv)

MAPREDUCE-5280. Bring back removed constructor and a method in mapreduce

ClusterMetrics for binary compatibility with 1.x APIs. (Mayank Bansal via

vinodkv)

MAPREDUCE-5289. Updated MR App to use Token directly after YARN-717. (Jian He

via vinodkv)

MAPREDUCE-5229. Put back FileOutputCommitter.TEMP\_DIR\_NAME in mapreduce for

binary compatibility with 1.x APIs. (Zhijie Shen via vinodkv)

MAPREDUCE-5274. Bring back SecureShuffleUtils.toHex in mapreduce for binary

compatibility with 1.x APIs. (Mayank Bansal via vinodkv)

MAPREDUCE-5300. Fix backward incompatibility for

o.a.h.mapreduce.filecache.DistributedCache. (Zhijie Shen via acmurthy)

MAPREDUCE-5283. Over 10 different tests have near identical

implementations of AppContext (Sandy Ryza via jlowe)

MAPREDUCE-5199. Removing ApplicationTokens file as it is no longer needed.

(Daryn Sharp via vinodkv)

MAPREDUCE-5192. Allow for alternate resolutions of TaskCompletionEvents.

(cdouglas via acmurthy)

MAPREDUCE-5184. Document compatibility for MapReduce applications in

hadoop-2 vis-a-vis hadoop-1. (Zhijie Shen via acmurthy)

MAPREDUCE-5194. Heed interrupts during Fetcher shutdown. (cdouglas)

MAPREDUCE-5326. Added version to shuffle header. (Zhijie Shen via

acmurthy)

MAPREDUCE-5333. Add test that verifies MRAM works correctly when sending

requests with non-normalized capabilities. (ywskycn via tucu)

MAPREDUCE-5398. MR changes for YARN-513 (Jian He via bikas)

OPTIMIZATIONS

MAPREDUCE-4974. Optimising the LineRecordReader initialize() method

(Gelesh via bobby)

MAPREDUCE-5268. Improve history server startup performance (Karthik

Kambatla via jlowe)

MAPREDUCE-5352. Optimize node local splits generated by

CombineFileInputFormat. (sseth)

BUG FIXES

MAPREDUCE-4671. AM does not tell the RM about container requests which are

no longer needed. (Bikas Saha via sseth)

MAPREDUCE-4994. -jt generic command line option does not work. (sandyr via tucu)

MAPREDUCE-5000. Fixes getCounters when speculating by fixing the selection

of the best attempt for a task. (Jason Lowe via sseth)

MAPREDUCE-4994. Addendum fixing testcases failures. (sandyr via tucu)

MAPREDUCE-4846. Some JobQueueInfo methods are public in MR1 but protected

in MR2. (Sandy Ryza via tomwhite)

MAPREDUCE-5013. mapred.JobStatus compatibility: MR2 missing constructors

from MR1. (Sandy Ryza via tomwhite)

MAPREDUCE-4951. Container preemption interpreted as task failure.

(Sandy Ryza via tomwhite)

MAPREDUCE-5008. Merger progress miscounts with respect to EOF\_MARKER.

(Sandy Ryza via tomwhite)

MAPREDUCE-4693. History server should include counters for failed tasks.

(Xuan Gong via sseth)

MAPREDUCE-4896. mapred queue -info spits out ugly exception when queue does

not exist. (sandyr via tucu)

MAPREDUCE-3685. Fix bugs in MergeManager to ensure compression codec is

appropriately used and that on-disk segments are correctly sorted on

file-size. (Anty Rao and Ravi Prakash via acmurthy)

MAPREDUCE-4571. TestHsWebServicesJobs fails on jdk7. (tgraves via tucu)

MAPREDUCE-4716. TestHsWebServicesJobsQuery.testJobsQueryStateInvalid

fails with jdk7. (tgraves via tucu)

MAPREDUCE-5075. DistCp leaks input file handles since ThrottledInputStream

does not close the wrapped InputStream. (Chris Nauroth via szetszwo)

MAPREDUCE-3872. Fix an event handling races in ContainerLauncherImpl.

(Robert Kanter via sseth)

MAPREDUCE-5062. Fix MR AM to read max-retries from the RM. (Zhijie Shen via

vinodkv)

MAPREDUCE-3829. [Gridmix] Gridmix should give better error message when

input data directory already exists and -generate opton is

given.(ravigummadi via tgraves)

MAPREDUCE-2722. [Gridmix] Gridmix simulated job's map's hdfsBytesRead

counter is wrong when compressed input is used.(ravigummadi via tgraves)

MAPREDUCE-3953. [Gridmix] Gridmix throws NPE and does not simulate a

job if the trace contains null taskStatus for a task. (ravigummadi via

tgraves)

MAPREDUCE-4087. [Gridmix] GenerateDistCacheData job of Gridmix can

become slow in some cases (ravigummadi via tgraves).

MAPREDUCE-5077. Remove mapreduce.util.ResourceCalculatorPlugin and related

code. (Karthik Kambatla via sseth)

MAPREDUCE-4083. [Gridmix] NPE in cpu emulation. (amarrk via tgraves)

MAPREDUCE-4100. [Gridmix] Bug fixed in compression emulation feature for

map only jobs. (amarrk via tgraves)

MAPREDUCE-4356. [Rumen] Provide access to the method

ParsedTask.obtainTaskAttempts(). (ravigummadi via tgraves)

MAPREDUCE-4149. [Rumen] Rumen fails to parse certain counter

strings. (ravigummadi via tgraves)

MAPREDUCE-3757. [Rumen] Fixed Rumen Folder to adjust shuffleFinished and

sortFinished times when needed. (Ravi Gummadi via tgraves)

MAPREDUCE-5138. Fix LocalDistributedCacheManager after YARN-112. (Omkar Vinit

Joshi via vinodkv)

MAPREDUCE-5086. MR app master deletes staging dir when sent a reboot

command from the RM. (Jian He via jlowe)

MAPREDUCE-5113. Streaming input/output types are ignored with java

mapper/reducer. (sandyr via tucu)

MAPREDUCE-5098. Fix findbugs warnings in gridmix. (kkambatl via tucu)

MAPREDUCE-5137. AM web UI: clicking on Map Task results in 500 error

(Thomas Graves via jlowe)

MAPREDUCE-5136. TestJobImpl->testJobNoTasks fails with IBM JAVA (Amir

Sanjar via jlowe)

MAPREDUCE-5139. Update MR AM to use the modified startContainer API after

YARN-486. (Xuan Gong via vinodkv)

MAPREDUCE-5151. Update MR AM to use standard exit codes from the API after

YARN-444. (Sandy Ryza via vinodkv)

MAPREDUCE-5140. MR part of YARN-514 (Zhijie Shen via bikas)

MAPREDUCE-5128. mapred-default.xml is missing a bunch of history server

configs. (sandyr via tucu)

MAPREDUCE-4898. FileOutputFormat.checkOutputSpecs and

FileOutputFormat.setOutputPath incompatible with MR1. (rkanter via tucu)

MAPREDUCE-5078. TestMRAppMaster fails on Windows due to mismatched path

separators. (Chris Nauroth via sseth)

MAPREDUCE-4932. mapreduce.job#getTaskCompletionEvents incompatible with

Hadoop 1. (rkanter via tucu)

MAPREDUCE-5163. Update MR App to not use API utility methods for collections

after YARN-441. (Xuan Gong via vinodkv)

MAPREDUCE-5066. Added a timeout for the job.end.notification.url. (Ivan

Mitic via acmurthy)

MAPREDUCE-5146. application classloader may be used too early to load

classes. (Sangjin Lee via tomwhite)

MAPREDUCE-4737. Ensure that mapreduce APIs are semantically consistent

with mapred API w.r.t Mapper.cleanup and Reducer.cleanup; in the sense that

cleanup is now called even if there is an error. The old mapred API

already ensures that Mapper.close and Reducer.close are invoked during

error handling. Note that it is an incompatible change, however end-users

can override Mapper.run and Reducer.run to get the old (inconsistent)

behaviour. (acmurthy)

MAPREDUCE-5166. Fix ConcurrentModificationException due to insufficient

synchronization on updates to task Counters. (Sandy Ryza via acmurthy)

MAPREDUCE-5181. RMCommunicator should not use AMToken from the env.

(Vinod Kumar Vavilapalli via sseth)

MAPREDUCE-5178. Update MR App to set progress in ApplicationReport after

YARN-577. (Hitesh Shah via vinodkv)

MAPREDUCE-5167. Update MR App after YARN-562 to use the new builder API

for the container. (Jian He via vinodkv)

MAPREDUCE-5179. Fix unit test in TestHSWebServices which fails when

versionInfo has parantheses like when running on a git checkout. (Hitesh Shah

via vinodkv)

MAPREDUCE-5193. A few MR tests use block sizes which are smaller than the

default minimum block size. (Andrew Wang via atm)

MAPREDUCE-5205. Fixed MR App to load tokens correctly. (vinodkv)

MAPREDUCE-5204. Handling YarnRemoteException separately from IOException in

MR app after YARN-629. (Xuan Gong via vinodkv)

MAPREDUCE-5209. Fix units in a ShuffleScheduler log message.

(Tsuyoshi OZAWA via cdouglas)

MAPREDUCE-5212. Handling YarnRemoteException separately from IOException in

MR App's use of ClientRMProtocol after YARN-631. (Xuan Gong via vinodkv)

MAPREDUCE-5226. Handling YarnRemoteException separately from IOException in

MR App's use of AMRMProtocol after YARN-630. (Xuan Gong via vinodkv)

MAPREDUCE-4942. mapreduce.Job has a bunch of methods that throw

InterruptedException so its incompatible with MR1. (rkanter via tucu)

MAPREDUCE-5239. Updated MR App to reflect YarnRemoteException changes after

YARN-634. (Siddharth Seth via vinodkv)

MAPREDUCE-5208. Modified ShuffleHandler to use SecureIOUtils for reading

local files. (Omkar Vinit Joshi via vinodkv)

MAPREDUCE-5220. Setter methods in TaskCompletionEvent are public in MR1 and

protected in MR2. (sandyr via tucu)

MAPREDUCE-5240. Fix a bug in MRAppMaster because of which OutputCommitter

could not access credentials set by the user. (vinodkv)

MAPREDUCE-5244. Two functions changed their visibility in JobStatus.

(zjshen via tucu)

MAPREDUCE-4927. Historyserver 500 error due to NPE when accessing specific

counters page for failed job. (Ashwin Shankar via jlowe)

MAPREDUCE-5257. Fix issues in TestContainerLauncherImpl after YARN-617.

(Omkar Vinit Joshi via vinodkv)

MAPREDUCE-5282. Updating MR App to use immutable ApplicationID after

YARN-716. (Siddharth Seth via vinodkv)

MAPREDUCE-5286. Change MapReduce to use ContainerTokenIdentifier instead

of the entire Container in the startContainer call - YARN-684.

(Vinod Kumar Vavilapalli via sseth)

MAPREDUCE-5299. Fix backward incompatibility for TaskCompletionEvent by

adding back setTaskID. (Zhijie Shen via acmurthy)

MAPREDUCE-5296. Fix backward incompatibility for JobControl by adding the

omitted addJob. (Zhijie Shen via acmurthy)

MAPREDUCE-5245. Added back constants to JobConf to fix incompatibilities.

(Zhijie Shen via acmurthy)

MAPREDUCE-5297. Updated MR App since BuilderUtils is no longer public

after YARN-748. (Jian He via vinodkv)

MAPREDUCE-5301. Updated MR code to work with YARN-635 changes of renaming

YarnRemoteException to YarnException. (Siddharth Seth via vinodkv)

MAPREDUCE-5308. Shuffling to memory can get out-of-sync when fetching

multiple compressed map outputs (Nathan Roberts via jlowe)

MAPREDUCE-5315. DistCp reports success even on failure. (mithun and jlowe

via daryn)

MAPREDUCE-5259. TestTaskLog fails on Windows because of path separators

missmatch. (Ivan Mitic via cnauroth)

MAPREDUCE-4019. -list-attempt-ids is not working (Ashwin Shankar,

Devaraj K, and B Anil Kumar via jlowe)

MAPREDUCE-5334. Fix failing unit tests - TestContainerLauncher,

TestContainerLauncherImpl. (Vinod Kumar Vavilapalli via sseth)

MAPREDUCE-5325. MR changes related to YARN-727. ClientRMProtocol.getAllApplications

should accept ApplicationType as a parameter. (Xuan Gong via hitesh)

MAPREDUCE-5291. Change MR App to use updated property names in

container-log4j.properties. (Zhijie Shen via sseth)

MAPREDUCE-5303. Changed MR app after moving ProtoBase to package impl.pb via

YARN-724. (Jian He via vinodkv)

MAPREDUCE-5312. TestRMNMInfo is failing. (sandyr via tucu)

MAPREDUCE-5304. mapreduce.Job killTask/failTask/getTaskCompletionEvents

methods have incompatible signature changes. (kkambatl via tucu)

MAPREDUCE-5298. Moved MapReduce services to YARN-530 stricter lifecycle.

(Steve Loughran via vinodkv)

MAPREDUCE-5319. Set user.name in job.xml. (Xuan Gong via acmurthy)

MAPREDUCE-5310. MRAM should not normalize allocation request capabilities.

(tucu)

MAPREDUCE-5213. Re-assess TokenCache methods marked @Private.

(kkambatl via tucu)

MAPREDUCE-5412. Update MR app to use multiple containers API of

ContainerManager after YARN-926. (Jian He via vinodkv)

MAPREDUCE-5421. Fixed TestNonExistentJob failure after YARN-873. (Junping Du

via vinodkv)

MAPREDUCE-5419. TestSlive is getting FileNotFound Exception (Robert Parker

via jlowe)

MAPREDUCE-5399. Unnecessary Configuration instantiation in IFileInputStream

slows down merge. (Stanislav Barton via Sandy Ryza)

BREAKDOWN OF HADOOP-8562 SUBTASKS

MAPREDUCE-4739. Some MapReduce tests fail to find winutils.

(Chris Nauroth via suresh)

MAPREDUCE-4780. MapReduce distribution build fails on Windows.

(Chris Nauroth via suresh)

MAPREDUCE-4790. MapReduce build script would be more readable using abspath.

(Chris Nauroth via suresh)

MAPREDUCE-4869. Fix TestMapReduceChildJVM. (Chris Nauroth via acmurthy)

MAPREDUCE-4870. Fix TestMRJobsWithHistoryService. (Chris Nauroth via acmurthy)

MAPREDUCE-4983. Fixed various platform specific assumptions in various tests,

so that they can pass on Windows too. (Chris Nauroth via vinodkv)

HADOOP-9372. Fix bad timeout annotations on tests.

(Arpit Agarwal via suresh)

MAPREDUCE-4885. Streaming tests have multiple failures on Windows. (Chris

Nauroth via bikas)

MAPREDUCE-5177. Use common utils FileUtil#setReadable/Writable/Executable &

FileUtil#canRead/Write/Execute. (Ivan Mitic via suresh)

MAPREDUCE-5349. TestClusterMapReduceTestCase and TestJobName fail on Windows

in branch-2. (Chuan Liu via cnauroth)

MAPREDUCE-5355. MiniMRYarnCluster with localFs does not work on Windows.

(Chuan Liu via cnauroth)

MAPREDUCE-5359. JobHistory should not use File.separator to match timestamp

in path. (Chuan Liu via cnauroth)

MAPREDUCE-5357. Job staging directory owner checking could fail on Windows.

(Chuan Liu via cnauroth)

MAPREDUCE-5360. TestMRJobClient fails on Windows due to path format.

(Chuan Liu via cnauroth)

MAPREDUCE-5366. TestMRAsyncDiskService fails on Windows. (Chuan Liu via

cnauroth)

MAPREDUCE-5187. Create mapreduce command scripts on Windows. (Chuan Liu via

cnauroth)

MAPREDUCE-4374. Fix child task environment variable config and add support

for Windows. (Chuan Liu via cnauroth)

Release 2.0.6-alpha - 08/22/2013

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

Release 2.0.5-alpha - 06/06/2013

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-5240 inside of FileOutputCommitter the initialized Credentials cache

appears to be empty. (vinodkv)

Release 2.0.4-alpha - 2013-04-25

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-5006. Fix failing streaming tests due to MAPREDUCE-4994.

(Sandy Ryza via tomwhite)

MAPREDUCE-5088. MR Client gets an renewer token exception while Oozie is

submitting a job (Daryn Sharp via cos)

MAPREDUCE-5117. Changed MRClientProtocolPBClientImpl to be closeable and thus

fix failures in renewal of HistoryServer's delegations tokens. (Siddharth

Seth via vinodkv)

MAPREDUCE-5083. MiniMRCluster should use a random component when creating an

actual cluster (Siddharth Seth via hitesh)

MAPREDUCE-5094. Disabled memory monitoring by default in MiniMRYarnCluster

to avoid some downstream tests failing. (Siddharth Seth via vinodkv)

Release 2.0.3-alpha - 2013-02-06

INCOMPATIBLE CHANGES

MAPREDUCE-4123. Remove the 'mapred groups' command, which is no longer

supported. (Devaraj K via sseth)

MAPREDUCE-4938. Use token request messages defined in hadoop common.

(suresh)

NEW FEATURES

MAPREDUCE-4520. Added support for MapReduce applications to request for

CPU cores along-with memory post YARN-2. (acmurthy)

MAPREDUCE-4810. Added new admin command options for MR AM. (Jerry Chen via

vinodkv)

MAPREDUCE-4049. Experimental api to allow for alternate shuffle plugins.

(Avner BenHanoch via acmurthy)

MAPREDUCE-4807. Allow MapOutputBuffer to be pluggable. (masokan via tucu)

MAPREDUCE-4808. Refactor MapOutput and MergeManager to facilitate reuse

by Shuffle implementations. (masokan via tucu)

IMPROVEMENTS

MAPREDUCE-3678. The Map tasks logs should have the value of input

split it processed. (harsh)

MAPREDUCE-4616. Improve javadoc for MultipleOutputs. (Tony Burton via

acmurthy)

HADOOP-8911. CRLF characters in source and text files.

(Raja Aluri via suresh)

MAPREDUCE-4723. Fix warnings found by findbugs 2. (Sandy Ryza via eli)

MAPREDUCE-4703. Add the ability to start the MiniMRClientCluster using

the configurations used before it is being stopped. (ahmed.radwan via tucu)

MAPREDUCE-4845. ClusterStatus.getMaxMemory() and getUsedMemory() exist in

MR1 but not MR2. (Sandy Ryza via tomwhite)

MAPREDUCE-4899. Implemented a MR specific plugin for tracking finished

applications that YARN's ResourceManager doesn't keep track off anymore

(Derek Dagit via vinodkv)

MAPREDUCE-4920. Use security token protobuf definition from hadoop common.

(Suresh Srinivas via vinodkv)

MAPREDUCE-4907. TrackerDistributedCacheManager issues too many getFileStatus

calls. (sandyr via tucu)

MAPREDUCE-4949. Enable multiple pi jobs to run in parallel. (sandyr via tucu)

MAPREDUCE-4809. Change visibility of classes for pluggable sort changes.

(masokan via tucu)

MAPREDUCE-4838. Add additional fields like Locality, Avataar to the

JobHistory logs. (Zhijie Shen via sseth)

MAPREDUCE-4971. Minor extensibility enhancements to Counters &

FileOutputFormat. (Arun C Murthy via sseth)

MAPREDUCE-4977. Documentation for pluggable shuffle and pluggable sort.

(tucu)

OPTIMIZATIONS

MAPREDUCE-4893. Fixed MR ApplicationMaster to do optimal assignment of

containers to get maximum locality. (Bikas Saha via vinodkv)

BUG FIXES

MAPREDUCE-4272. SortedRanges.Range#compareTo is not spec compliant.

(Yu Gao via llu)

MAPREDUCE-4607. Race condition in ReduceTask completion can result in Task

being incorrectly failed. (Bikas Saha via tomwhite)

MAPREDUCE-4646. Fixed MR framework to send diagnostic information correctly

to clients in case of failed jobs also. (Jason Lowe via vinodkv)

MAPREDUCE-4674. Hadoop examples secondarysort has a typo

"secondarysrot" in the usage. (Robert Justice via eli)

MAPREDUCE-4681. Fix unit tests broken by HDFS-3910. (acmurthy)

MAPREDUCE-4712. mr-jobhistory-daemon.sh doesn't accept --config

(Vinod Kumar Vavilapalli via tgraves)

MAPREDUCE-4654. TestDistCp is ignored. (Sandy Ryza via tomwhite)

MAPREDUCE-4637. Handle TaskAttempt diagnostic updates while in the NEW and

UNASSIGNED states. (Mayank Bansal via sseth)

MAPREDUCE-1806. CombineFileInputFormat does not work with paths not on default FS. (Gera Shegalov via tucu)

MAPREDUCE-4777. In TestIFile, testIFileReaderWithCodec relies on

testIFileWriterWithCodec. (Sandy Ryza via tomwhite)

MAPREDUCE-4800. Cleanup o.a.h.mapred.MapTaskStatus - remove unused

code. (kkambatl via tucu)

MAPREDUCE-4861. Cleanup: Remove unused mapreduce.security.token.DelegationTokenRenewal.

(kkambatl via tucu)

MAPREDUCE-4856. TestJobOutputCommitter uses same directory as

TestJobCleanup. (Sandy Ryza via tomwhite)

MAPREDUCE-4895. Fix compilation failure of org.apache.hadoop.mapred.

gridmix.TestResourceUsageEmulators (Dennis Y via tgraves)

MAPREDUCE-4278. Cannot run two local jobs in parallel from the same

gateway. (Sandy Ryza via tomwhite)

MAPREDUCE-1700. User supplied dependencies may conflict with MapReduce

system JARs. (tomwhite)

MAPREDUCE-4936. JobImpl uber checks for cpu are wrong (Arun C Murthy via

jlowe)

MAPREDUCE-4924. flakey test: org.apache.hadoop.mapred.TestClusterMRNotification.testMR.

(rkanter via tucu)

MAPREDUCE-4923. Add toString method to TaggedInputSplit. (sandyr via tucu)

MAPREDUCE-4948. Fix a failing unit test TestYARNRunner.testHistoryServerToken.

(Junping Du via sseth)

MAPREDUCE-4803. Remove duplicate copy of TestIndexCache. (Mariappan Asokan

via sseth)

MAPREDUCE-2264. Job status exceeds 100% in some cases.

(devaraj.k and sandyr via tucu)

MAPREDUCE-4969. TestKeyValueTextInputFormat test fails with Open JDK 7.

(Arpit Agarwal via suresh)

MAPREDUCE-4884. Streaming tests fail to start MiniMRCluster due to missing

queue configuration. (Chris Nauroth via suresh)

MAPREDUCE-4953. HadoopPipes misuses fprintf. (Andy Isaacson via atm)

Release 2.0.2-alpha - 2012-09-07

INCOMPATIBLE CHANGES

NEW FEATURES

MAPREDUCE-987. Exposing MiniDFS and MiniMR clusters as a single process

command-line. (ahmed via tucu)

MAPREDUCE-4417. add support for encrypted shuffle (tucu)

MAPREDUCE-4355. Add RunningJob.getJobStatus() (kkambatl via tucu)

MAPREDUCE-3451. Port Fair Scheduler to MR2 (pwendell via tucu)

MAPREDUCE-4438. Add a simple, generic client to run 'easy' AMs in YARN.

(Bikas Saha via acmurthy)

IMPROVEMENTS

MAPREDUCE-4157. ResourceManager should not kill apps that are well behaved

(Jason Lowe via bobby)

MAPREDUCE-4511. Add IFile readahead (ahmed via tucu)

MAPREDUCE-4408. allow jobs to set a JAR that is in the distributed cached

(rkanter via tucu)

MAPREDUCE-4440. Changed SchedulerApp and SchedulerNode to be a minimal

interface to allow schedulers to maintain their own. (acmurthy)

MAPREDUCE-4146. Support limits on task status string length and number of

block locations in branch-2. (Ahmed Radwan via tomwhite)

MAPREDUCE-3871. Allow symlinking in LocalJobRunner DistributedCache.

(tomwhite)

MAPREDUCE-3921. MR AM should act on node health status changes.

(Bikas Saha via sseth)

MAPREDUCE-4355. Add RunningJob.getJobStatus() (kkambatl via tucu)

MAPREDUCE-4427. Added an 'unmanaged' mode for AMs so as to ease

development of new applications. (Bikas Saha via acmurthy)

MAPREDUCE-3289. Make use of fadvise in the NM's shuffle handler.

(Todd Lipcon and Siddharth Seth via sseth)

MAPREDUCE-4580. Change MapReduce to use the yarn-client module.

(Vinod Kumar Vavilapalli via sseth)

MAPREDUCE-4579. Split TestTaskAttempt into two so as to pass tests on

jdk7. (Thomas Graves via vinodkv)

MAPREDUCE-4638. MR AM supplies MapReduce jars in classpath rather than

rely on YARN. (acmurthy)

BUG FIXES

MAPREDUCE-4422. YARN\_APPLICATION\_CLASSPATH needs a documented default value in

YarnConfiguration. (ahmed via tucu)

MAPREDUCE-4406. Users should be able to specify the MiniCluster ResourceManager

and JobHistoryServer ports. (ahmed via tucu)

MAPREDUCE-4407. Add hadoop-yarn-server-tests-<version>-tests.jar to hadoop dist

package. (ahmed via tucu)

MAPREDUCE-4465. Update description of yarn.nodemanager.address property.

(bowang via tucu)

MAPREDUCE-4342. Distributed Cache gives inconsistent result if cache files

get deleted from tasktracker. (mayank\_bansal via tucu)

MAPREDUCE-4498. Remove hsqldb jar from Hadoop runtime classpath. (rkanter via tucu)

MAPREDUCE-4494. TestFifoScheduler failing with Metrics source QueueMetrics,q0=default

already exists!. (ahmed.radwan via tucu)

MAPREDUCE-4484. Incorrect IS\_MINI\_YARN\_CLUSTER property name in YarnConfiguration.

(ahmed.radwan via tucu)

MAPREDUCE-4562. Support for "FileSystemCounter" legacy counter group name

for compatibility reasons is creating incorrect counter name.

(Jarek Jarcec Cecho via tomwhite)

MAPREDUCE-4068. Jars in lib subdirectory of the submittable JAR are not added to the

classpath (rkanter via tucu)

MAPREDUCE-4577. HDFS-3672 broke

TestCombineFileInputFormat.testMissingBlocks() test (atm)

MAPREDUCE-4470. Fix TestCombineFileInputFormat.testForEmptyFile (ikatsov via tucu)

MAPREDUCE-4608. hadoop-mapreduce-client is missing some dependencies.

(tucu via tomwhite)

MAPREDUCE-4610. Support deprecated mapreduce.job.counters.limit property in

MR2. (tomwhite)

MAPREDUCE-4629. Remove JobHistory.DEBUG\_MODE (Karthik Kambatla via bobby)

MAPREDUCE-4642. MiniMRClientClusterFactory should not use job.setJar() (rkanter via tucu)

MAPREDUCE-4148. MapReduce should not have a compile-time dependency on

HDFS. (tomwhite)

MAPREDUCE-4250. hadoop-config.sh missing variable exports, causes Yarn

jobs to fail with ClassNotFoundException MRAppMaster. (phunt via tucu)

MAPREDUCE-4002. MultiFileWordCount job fails if the input path is not

from default file system. (Bhallamudi Venkata Siva Kamesh via todd)

MAPREDUCE-4274 MapOutputBuffer should use native byte order for kvmeta.

(todd via bobby)

MAPREDUCE-4262. NM gives wrong log message saying "Connected to

ResourceManager" before trying to connect. (Devaraj K via tgraves)

MAPREDUCE-4276. Allow setting yarn.nodemanager.delete.debug-delay-sec

property to "-1" for easier container debugging. (ahmed via tucu)

MAPREDUCE-4224. TestFifoScheduler throws

org.apache.hadoop.metrics2.MetricsException (Devaraj K via tgraves)

MAPREDUCE-3493. Add the default mapreduce.shuffle.port property

to mapred-default.xml (Madhukara Phatak via harsh)

MAPREDUCE-4307. TeraInputFormat calls FileSystem.getDefaultBlockSize()

without a Path - Failure when using ViewFileSystem. (Ahmed Radwan via eli)

MAPREDUCE-4313. TestTokenCache doesn't compile due

TokenCache.getDelegationToken compilation error (bobby)

MAPREDUCE-3873. Fixed NodeManagers' decommissioning at RM to accept IP

addresses also. (xieguiming via vinodkv)

MAPREDUCE-4306. Fix distributed shell to work with users other than the one

running the daemons. (Ahmed Radwan via sseth)

MAPREDUCE-4031. Prevent a Node Manager hang during shutdown.

(Devaraj K via sseth)

MAPREDUCE-4336. Distributed Shell fails when used with the CapacityScheduler

(ahmed via tucu)

MAPREDUCE-4290. Fix Yarn Applicaiton Status to MR JobState conversion.

(Devaraj K via sseth)

MAPREDUCE-2289. Permissions race can make getStagingDir fail on local filesystem

(ahmed via tucu)

MAPREDUCE-4372. Deadlock in Resource Manager (Devaraj K via bobby)

MAPREDUCE-4376. TestClusterMRNotification times out (Kihwal Lee via bobby)

MAPREDUCE-4383. HadoopPipes.cc needs to include unistd.h.

(Andy Isaacson via eli)

MAPREDUCE-2739. Update installation docs (remove YarnClientFactory) (bowang via tucu)

MAPREDUCE-3993. Graceful handling of codec errors during decompression

(kkambatl via tucu)

MAPREDUCE-4416. Some tests fail if Clover is enabled (Kihwal Lee via bobby)

MAPREDUCE-4441. Fix build issue caused by MR-3451 (kkambatl via tucu)

HADOOP-8499. Lower min.user.id to 500 for the tests.

(Colin Patrick McCabe via eli)

MAPREDUCE-4395. Possible NPE at ClientDistributedCacheManager

#determineTimestamps (Bhallamudi via bobby)

MAPREDUCE-4380. Empty Userlogs directory is getting created under logs

directory (Devaraj K via bobby)

MAPREDUCE-4649. Ensure MapReduce JobHistory Daemon doens't assume

HADOOP\_YARN\_HOME and HADOOP\_MAPRED\_HOME are the same. (vinodkv via

acmurthy)

Release 2.0.0-alpha - 05-23-2012

INCOMPATIBLE CHANGES

MAPREDUCE-3545. Remove Avro RPC. (suresh)

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-2887. Due to HADOOP-7524, change RPC to allow multiple protocols

including multuple versions of the same protocol (Sanjay Radia)

MAPREDUCE-2934. MR portion of HADOOP-7607 - Simplify the RPC proxy cleanup

process (atm)

HADOOP-7862. MR changes to work with HADOOP 7862: Move the support for

multiple protocols to lower layer so that Writable, PB and Avro can all

use it (Sanjay Radia)

MAPREDUCE-3909 Javadoc the Service interfaces (stevel)

MAPREDUCE-3885. Avoid an unnecessary copy for all requests/responses in

MRs ProtoOverHadoopRpcEngine. (Devaraj Das via sseth)

MAPREDUCE-3935. Annotate Counters.Counter and Counters.Group as @Public.

(tomwhite)

MAPREDUCE-3991. Streaming FAQ has some wrong instructions about input files

splitting. (harsh)

MAPREDUCE-3773. Add queue metrics with buckets for job run times. (omalley

via acmurthy)

MAPREDUCE-3970. Add ServiceOperations class to aid working with Services

(stevel)

MAPREDUCE-3353. Add a channel between RM and AM to get information on

nodes. (Bikas Saha via acmurthy)

MAPREDUCE-3955. Change MR to use ProtobufRpcEngine from hadoop-common

instead of ProtoOverHadoopRpcEngine. (Jitendra Nath Pandey via sseth)

MAPREDUCE-4103. Fix HA docs for changes to shell command fencer args (todd)

MAPREDUCE-4093. Improve RM WebApp start up when proxy address is not set

(Devaraj K vai bobby)

MAPREDUCE-4138. Reduce memory usage of counters due to non-static nested

classes. (tomwhite)

MAPREDUCE-3883. Document yarn.nodemanager.delete.debug-delay-sec

configuration property (Eugene Koontz via tgraves)

MAPREDUCE-4219. make default container-executor.conf.dir be a path

relative to the container-executor binary. (rvs via tucu)

MAPREDUCE-4205. retrofit all JVM shutdown hooks to use ShutdownHookManager

(tucu)

HADOOP-8285 MR changes for Use ProtoBuf for RpcPayLoadHeader (sanjay radia)

MAPREDUCE-2220. Fix new API FileOutputFormat-related typos in

mapred-default.xml (Rui Kubo via harsh)

MAPREDUCE-3907. Document entries mapred-default.xml for the

jobhistory server. (Eugene Koontz via harsh)

MAPREDUCE-3906. Fix inconsistency in documentation regarding

mapreduce.jobhistory.principal. (Eugene Koontz via harsh)

MAPREDUCE-4432. Confusing warning message when GenericOptionsParser

is not used. (Gabriel Reid via harsh)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-3740. Fixed broken mapreduce compilation after the patch for

HADOOP-7965. (Devaraj K via vinodkv)

MAPREDUCE-3818. Fixed broken compilation in TestSubmitJob after the patch

for HDFS-2895. (Suresh Srinivas via vinodkv)

MAPREDUCE-2942. TestNMAuditLogger.testNMAuditLoggerWithIP failing (Thomas

Graves via mahadev)

MAPREDUCE-3933. Failures because MALLOC\_ARENA\_MAX is not set (ahmed via tucu)

MAPREDUCE-3728. ShuffleHandler can't access results when configured in a

secure mode (ahmed via tucu)

MAPREDUCE-3952. In MR2, when Total input paths to process == 1,

CombinefileInputFormat.getSplits() returns 0 split. (zhenxiao via tucu)

MAPREDUCE-3578. Starting nodemanager as root gives "Unknown -jvm option"

(tomwhite)

MAPREDUCE-3348. Fixed a bug in MR client to redirect to JobHistoryServer

correctly when RM forgets the app. (Devaraj K via vinodkv)

MAPREDUCE-3974. TestSubmitJob in MR1 tests doesn't compile after HDFS-162

merge. (atm)

MAPREDUCE-4007. JobClient getJob(JobID) should return NULL if the job

does not exist (for backwards compatibility) (tucu)

MAPREDUCE-3431 NPE in Resource Manager shutdown. (stevel)

MAPREDUCE-4010. TestWritableJobConf fails on trunk (tucu via bobby)

MAPREDUCE-3992. Reduce fetcher doesn't verify HTTP status code of response

(todd)

MAPREDUCE-4066. Use default value when fetching MR\_AM\_STAGING\_DIR

(xieguiming via harsh)

MAPREDUCE-3377. Added a unit test to ensure OutputCommitter.checkOutputSpecs

is called prior to copying job.xml. (Jane Chen via acmurthy)

MAPREDUCE-4081. TestMROutputFormat.java does not compile (Jason Lowe via

bobby)

MAPREDUCE-4082. hadoop-mapreduce-client-app's mrapp-generated-classpath

file should not be in the module JAR (tucu)

MAPREDUCE-3916. various issues with running yarn proxyserver (devaraj via tucu)

MAPREDUCE-4091. tools testcases failing because of MAPREDUCE-4082 (tucu)

MAPREDUCE-4098. TestMRApps testSetClasspath fails (tucu)

MAPREDUCE-4097. tools testcases fail because missing mrapp-generated-classpath

file in classpath (rvs via tucu)

MAPREDUCE-4113. Fix tests org.apache.hadoop.mapred.TestClusterMRNotification

(Devaraj K via bobby)

MAPREDUCE-4112. Fix tests org.apache.hadoop.mapred.TestClusterMapReduceTestCase

(Devaraj K via bobby)

MAPREDUCE-4111. Fix tests in org.apache.hadoop.mapred.TestJobName (Devaraj

K via bobby)

MAPREDUCE-4110. Fix tests in org.apache.hadoop.mapred.TestMiniMRClasspath &

org.apache.hadoop.mapred.TestMiniMRWithDFSWithDistinctUsers (Devaraj K via

bobby)

MAPREDUCE-4105. Yarn RackResolver ignores rack configurations.

(Ahmed Radwan via tomwhite)

MAPREDUCE-3869. Fix classpath for DistributedShell application. (Devaraj K

via sseth)

MAPREDUCE-4057. Update RAID for the HA and fsdataset changes. (Devaraj K

via szetszwo)

MAPREDUCE-4076. Stream job fails with ZipException when use yarn jar

command (Devaraj K via bobby)

MAPREDUCE-4108. Fix tests in org.apache.hadoop.util.TestRunJar

(Devaraj K via tgraves)

MAPREDUCE-4107. Fix tests in org.apache.hadoop.ipc.TestSocketFactory

(Devaraj K via tgraves)

MAPREDUCE-4147. YARN should not have a compile-time dependency on HDFS.

(tomwhite)

MAPREDUCE-4008. ResourceManager throws MetricsException on start up

saying QueueMetrics MBean already exists (Devaraj K via tgraves)

MAPREDUCE-3867. MiniMRYarn/MiniYarn uses fixed ports (tucu)

MAPREDUCE-4141. clover integration broken, also mapreduce poms are

pulling in clover as a dependency. (phunt via tucu)

MAPREDUCE-4193. broken doc link for yarn-default.xml in site.xml.

(phunt via tomwhite)

MAPREDUCE-4202. TestYarnClientProtocolProvider is broken (Daryn Sharp via

bobby)

MAPREDUCE-3173. MRV2 UI doesn't work properly without internet (Devaraj K

via bobby)

MAPREDUCE-3958. RM: Remove RMNodeState and replace it with NodeState

(Bikas Saha via bobby)

MAPREDUCE-4231. Update RAID to use the new BlockCollection interface.

(szetszwo)

MAPREDUCE-4483. 2.0 build does not work (John George via bobby)

MAPREDUCE-4444. nodemanager fails to start when one of the local-dirs is

bad (Jason Lowe via bobby)

Release 0.23.10 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-5640. Rename TestLineRecordReader in jobclient module (Jason Lowe

via jeagles)

MAPREDUCE-3191. docs for map output compression incorrectly reference

SequenceFile (Chen He via jeagles)

OPTIMIZATIONS

MAPREDUCE-1981. Improve getSplits performance by using listLocatedStatus

(Hairong Kuang and Jason Lowe via jlowe)

BUG FIXES

MAPREDUCE-3193. FileInputFormat doesn't read files recursively in the

input path dir (Devaraj K via jlowe)

MAPREDUCE-5380. Invalid mapred command should return non-zero exit code

(Stephen Chu via jlowe)

MAPREDUCE-5317. Stale files left behind for failed jobs (Ravi Prakash via

jlowe)

MAPREDUCE-5251. Reducer should not implicate map attempt if it has

insufficient space to fetch map output (Ashwin Shankar via jlowe)

MAPREDUCE-5419. TestSlive is getting FileNotFound Exception (Robert Parker

via jlowe)

MAPREDUCE-5440. TestCopyCommitter Fails on JDK7 (Robert Parker via jlowe)

MAPREDUCE-5001. LocalJobRunner has race condition resulting in job

failures (Sandy Ryza via jlowe)

MAPREDUCE-5475. MRClientService does not verify ACLs properly (jlowe)

MAPREDUCE-5504. mapred queue -info inconsistent with types (Kousuke Saruta

via tgraves)

MAPREDUCE-5513. ConcurrentModificationException in JobControl (Robert

Parker via jlowe)

MAPREDUCE-5586. TestCopyMapper#testCopyFailOnBlockSizeDifference fails when

run from hadoop-tools/hadoop-distcp directory (jeagles)

MAPREDUCE-5587. TestTextOutputFormat fails on JDK7 (jeagles)

MAPREDUCE-5373. TestFetchFailure.testFetchFailureMultipleReduces could fail

intermittently (jeagles)

Release 0.23.9 - 2013-07-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-5084. fix coverage org.apache.hadoop.mapreduce.v2.app.webapp and

org.apache.hadoop.mapreduce.v2.hs.webapp (Aleksey Gorshkov via jeagles)

OPTIMIZATIONS

MAPREDUCE-5268. Improve history server startup performance (Karthik

Kambatla via jlowe)

BUG FIXES

MAPREDUCE-5308. Shuffling to memory can get out-of-sync when fetching

multiple compressed map outputs (Nathan Roberts via jlowe)

MAPREDUCE-5315. DistCp reports success even on failure. (mithun and jlowe

via daryn)

MAPREDUCE-4019. -list-attempt-ids is not working (Ashwin Shankar,

Devaraj K, and B Anil Kumar via jlowe)

MAPREDUCE-5316. job -list-attempt-ids command does not handle illegal

task-state (Ashwin Shankar via jlowe)

Release 0.23.8 - 2013-06-05

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-5065. DistCp should skip checksum comparisons if block-sizes

are different on source/target (Mithun Radhakrishnan via kihwal)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-5015. Coverage fix for org.apache.hadoop.mapreduce.tools.CLI

(Aleksey Gorshkov via tgraves)

MAPREDUCE-5147. Maven build should create

hadoop-mapreduce-client-app-VERSION.jar directly (Robert Parker via tgraves)

MAPREDUCE-4927. Historyserver 500 error due to NPE when accessing specific

counters page for failed job. (Ashwin Shankar via jlowe)

Release 0.23.7 - 2013-04-18

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-4905. test org.apache.hadoop.mapred.pipes

(Aleksey Gorshkov via bobby)

MAPREDUCE-4989. JSONify DataTables input data for Attempts page (Ravi

Prakash via jlowe)

MAPREDUCE-5027. Shuffle does not limit number of outstanding connections

(Robert Parker via jeagles)

MAPREDUCE-4972. Coverage fixing for org.apache.hadoop.mapreduce.jobhistory

(Aleksey Gorshkov via bobby)

OPTIMIZATIONS

MAPREDUCE-4946. Fix a performance problem for large jobs by reducing the

number of map completion event type conversions. (Jason Lowe via sseth)

MAPREDUCE-4822. Unnecessary conversions in History Events. (Chu Tong via

jlowe)

BUG FIXES

MAPREDUCE-4458. Warn if java.library.path is used for AM or Task

(Robert Parker via jeagles)

MAPREDUCE-4992. AM hangs in RecoveryService when recovering tasks with

speculative attempts (Robert Parker via jlowe)

MAPREDUCE-5009. Killing the Task Attempt slated for commit does not clear

the value from the Task commitAttempt member (Robert Parker via jeagles)

MAPREDUCE-4871. AM uses mapreduce.jobtracker.split.metainfo.maxsize but

mapred-default has mapreduce.job.split.metainfo.maxsize (Jason Lowe via

jeagles)

MAPREDUCE-4794. DefaultSpeculator generates error messages on normal

shutdown (Jason Lowe via jeagles)

MAPREDUCE-5043. Fetch failure processing can cause AM event queue to

backup and eventually OOM (Jason Lowe via bobby)

MAPREDUCE-5023. History Server Web Services missing Job Counters (Ravi

Prakash via tgraves)

MAPREDUCE-5060. Fetch failures that time out only count against the first

map task (Robert Joseph Evans via jlowe)

MAPREDUCE-5042. Reducer unable to fetch for a map task that was recovered

(Jason Lowe via bobby)

MAPREDUCE-5053. java.lang.InternalError from decompression codec cause

reducer to fail (Robert Parker via jeagles)

MAPREDUCE-4991. coverage for gridmix (Aleksey Gorshkov via tgraves)

MAPREDUCE-5007. fix coverage org.apache.hadoop.mapreduce.v2.hs (Aleksey

Gorshkov via tgraves)

MAPREDUCE-5137. AM web UI: clicking on Map Task results in 500 error

(Thomas Graves via jlowe)

Release 0.23.6 - 2013-02-06

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-4811. JobHistoryServer should show when it was started in WebUI

About page (Ravi Prakash via jlowe)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-4802. Takes a long time to load the task list on the AM for

large jobs (Ravi Prakash via bobby)

MAPREDUCE-4764. repair TestBinaryTokenFile (Ivan A. Veselovsky via bobby)

MAPREDUCE-4825. JobImpl.finished doesn't expect ERROR as a final job state

(jlowe via bobby)

MAPREDUCE-4817. Hardcoded task ping timeout kills tasks localizing large

amounts of data (tgraves)

MAPREDUCE-4836. Elapsed time for running tasks on AM web UI tasks page is 0

(Ravi Prakash via jeagles)

MAPREDUCE-4842. Shuffle race can hang reducer (Mariappan Asokan via jlowe)

MAPREDUCE-4833. Task can get stuck in FAIL\_CONTAINER\_CLEANUP (Robert

Parker via jlowe)

MAPREDUCE-4793. Problem with adding resources when using both -files and

-file to hadoop streaming (jlowe)

MAPREDUCE-4890. Invalid TaskImpl state transitions when task fails while

speculating (jlowe)

MAPREDUCE-4902. Fix typo "receievd" should be "received" in log output

(Albert Chu via jlowe)

MAPREDUCE-4813. AM timing out during job commit (jlowe via bobby)

MAPREDUCE-4279. getClusterStatus() fails with null pointer exception when

running jobs in local mode (Devaraj K via bobby)

MAPREDUCE-4832. MR AM can get in a split brain situation (jlowe)

MAPREDUCE-4894. Renewal / cancellation of JobHistory tokens (Siddharth

Seth via tgraves)

MAPREDUCE-4819. AM can rerun job after reporting final job status to the

client (bobby and Bikas Saha via bobby)

MAPREDUCE-4913. TestMRAppMaster#testMRAppMasterMissingStaging occasionally

exits (Jason Lowe via tgraves)

MAPREDUCE-4848. TaskAttemptContext cast error during AM recovery (Jerry

Chen via jlowe)

MAPREDUCE-4921. JobClient should acquire HS token with RM principal

(daryn via bobby)

MAPREDUCE-4934. Maven RAT plugin is not checking all source files (tgraves)

MAPREDUCE-4678. Running the Pentomino example with defaults throws

java.lang.NegativeArraySizeException (Chris McConnell via harsh)

MAPREDUCE-4925. The pentomino option parser may be buggy.

(Karthik Kambatla via harsh)

Release 0.23.5 - 2012-11-28

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-4596. Split StateMachine state from states seen by MRClientProtocol

for Job, Task and TaskAttempt. (Siddarth Seth via vinodkv)

MAPREDUCE-4752. Reduce MR AM memory usage through String Interning (Robert

Evans via tgraves)

MAPREDUCE-4266. remove Ant remnants from MR (tgraves via bobby)

MAPREDUCE-4666. JVM metrics for history server (jlowe via jeagles)

OPTIMIZATIONS

MAPREDUCE-4720. Browser thinks History Server main page JS is taking too

long (Ravi Prakash via bobby)

BUG FIXES

MAPREDUCE-4554. Job Credentials are not transmitted if security is turned

off (Benoy Antony via bobby)

MAPREDUCE-4705. Fix a bug in job history lookup, which makes older jobs

inaccessible despite the presence of a valid history file. (Jason Lowe

via sseth)

MAPREDUCE-4521. mapreduce.user.classpath.first incompatibility with 0.20/1.x

(Ravi Prakash via bobby)

MAPREDUCE-4721. Task startup time in JHS is same as job startup time.

(Ravi Prakash via bobby)

MAPREDUCE-4479. Fix parameter order in assertEquals() in

TestCombineInputFileFormat.java (Mariappan Asokan via bobby)

MAPREDUCE-4733. Reducer can fail to make progress during shuffle if too many

reducers complete consecutively. (Jason Lowe via vinodkv)

MAPREDUCE-4740. only .jars can be added to the Distributed Cache

classpath. (Robert Joseph Evans via jlowe)

MAPREDUCE-4229. Intern counter names in the JT (Miomir Boljanovic and bobby via daryn)

MAPREDUCE-4741. WARN and ERROR messages logged during normal AM shutdown.

(Vinod Kumar Vavilapalli via jlowe)

MAPREDUCE-4730. Fix Reducer's EventFetcher to scale the map-completion

requests slowly to avoid HADOOP-8942. (Jason Lowe via vinodkv)

MAPREDUCE-4748. Invalid event: T\_ATTEMPT\_SUCCEEDED at SUCCEEDED. (jlowe)

MAPREDUCE-4724. job history web ui applications page should be sorted to

display last app first (tgraves via bobby)

MAPREDUCE-4746. The MR Application Master does not have a config to set

environment variables (Rob Parker via bobby)

MAPREDUCE-4729. job history UI not showing all job attempts. (Vinod

Kumar Vavilapalli via jlowe)

MAPREDUCE-4763 repair test TestUmbilicalProtocolWithJobToken (Ivan A.

Veselovsky via bobby)

MAPREDUCE-4771. KeyFieldBasedPartitioner not partitioning properly when

configured (jlowe via bobby)

MAPREDUCE-4772. Fetch failures can take way too long for a map to be

restarted (bobby)

MAPREDUCE-4782. NLineInputFormat skips first line of last InputSplit

(Mark Fuhs via bobby)

MAPREDUCE-4774. JobImpl does not handle asynchronous task events in FAILED

state (jlowe via bobby)

MAPREDUCE-4751. AM stuck in KILL\_WAIT for days (vinodkv via bobby)

MAPREDUCE-4787. TestJobMonitorAndPrint is broken (Rob Parker via bobby)

MAPREDUCE-4425. Speculation + Fetch failures can lead to a hung job (jlowe

via bobby)

MAPREDUCE-4786. Job End Notification retry interval is 5 milliseconds by

default (Ravi Prakash via bobby)

MAPREDUCE-4517. Too many INFO messages written out during AM to RM heartbeat

(Jason Lowe via tgraves)

MAPREDUCE-4797. LocalContainerAllocator can loop forever trying to contact

the RM (jlowe via bobby)

MAPREDUCE-4801. ShuffleHandler can generate large logs due to prematurely

closed channels (jlowe via bobby)

Release 0.23.4

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-2786. Add compression option for TestDFSIO.

(Plamen Jeliazkov via shv)

MAPREDUCE-4645. Provide a random seed to Slive to make the sequence

of file names deterministic. (Ravi Prakash via shv)

MAPREDUCE-4651. Benchmarking random reads with DFSIO. (shv)

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-4647. We should only unjar jobjar if there is a lib directory

in it. (Robert Evans via tgraves)

MAPREDUCE-4691. Historyserver can report "Unknown job" after RM says job

has completed (Robert Joseph Evans via jlowe)

MAPREDUCE-4689. JobClient.getMapTaskReports on failed job results in NPE

(jlowe via bobby)

Release 0.23.3

INCOMPATIBLE CHANGES

MAPREDUCE-4072. User set java.library.path seems to overwrite default

creating problems native lib loading (Anupam Seth via bobby)

MAPREDUCE-3812. Lower default allocation sizes, fix allocation

configurations and document them (Harsh J via bobby)

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-4059. The history server should have a separate pluggable

storage/query interface. (Robert Evans via tgraves)

MAPREDUCE-3942. Randomize master key generation for

ApplicationTokenSecretManager and roll it every so often. (Vinod Kumar

Vavilapalli via sseth)

MAPREDUCE-4151. RM scheduler web page should filter apps to those that

are relevant to scheduling (Jason Lowe via tgraves)

MAPREDUCE-4134. Remove references of mapred.child.ulimit etc. since they

are not being used any more (Ravi Prakash via bobby)

MAPREDUCE-3972. Fix locking and exception issues in JobHistory server.

(Robert Joseph Evans via sseth)

MAPREDUCE-4161. create sockets consistently (Daryn Sharp via bobby)

MAPREDUCE-4079. Allow MR AppMaster to limit ephemeral port range.

(bobby via tgraves)

MAPREDUCE-4210. Expose listener address for WebApp (Daryn Sharp via bobby)

MAPREDUCE-4162. Correctly set token service (Daryn Sharp via bobby)

MAPREDUCE-4301. Dedupe some strings in MRAM for memory savings

(bobby via tgraves)

MAPREDUCE-4267. mavenize pipes (tgraves via bobby)

MAPREDUCE-4375. Show Configuration Tracability in MR UI (bobby

via tgraves)

MAPREDUCE-4569. Fixed TestHsWebServicesJobsQuery to pass on JDK7 by not

depending on test order. (Thomas Graves via vinodkv)

OPTIMIZATIONS

MAPREDUCE-3850. Avoid redundant calls for tokens in TokenCache (Daryn

Sharp via bobby)

BUG FIXES

MAPREDUCE-4092. commitJob Exception does not fail job (Jon Eagles via

bobby)

MAPREDUCE-4089. Hung Tasks never time out. (Robert Evans via tgraves)

MAPREDUCE-4024. RM webservices can't query on finalStatus (Tom Graves

via bobby)

MAPREDUCE-4060. Multiple SLF4J binding warning (Jason Lowe via bobby)

MAPREDUCE-3983. TestTTResourceReporting can fail, and should just be

deleted (Ravi Prakash via bobby)

MAPREDUCE-4012 Hadoop Job setup error leaves no useful info to users

(when LinuxTaskController is used). (tgraves)

MAPREDUCE-4062. AM Launcher thread can hang forever (tgraves via bobby)

MAPREDUCE-3988. mapreduce.job.local.dir doesn't point to a single directory

on a node. (Eric Payne via bobby)

MAPREDUCE-3999. Tracking link gives an error if the AppMaster hasn't

started yet (Ravi Prakash via bobby)

MAPREDUCE-4020. Web services returns incorrect JSON for deep queue tree

(Anupam Seth via tgraves)

MAPREDUCE-3672. Killed maps shouldn't be counted towards

JobCounter.NUM\_FAILED\_MAPS. (Anupam Seth via tgraves)

MAPREDUCE-3682 Tracker URL says AM tasks run on localhost.

(Ravi Prakash via tgraves)

MAPREDUCE-3082. Archive command take wrong path for input file with current

directory (John George via bobby)

MAPREDUCE-3650. testGetTokensForHftpFS() fails (Ravi Prakash via bobby)

MAPREDUCE-3621. TestDBJob and TestDataDrivenDBInputFormat ant tests fail

(Ravi Prakash via tgraves)

MAPREDUCE-4073. CS assigns multiple off-switch containers when using

multi-level-queues (Siddharth Seth via bobby)

MAPREDUCE-4051. Remove the empty hadoop-mapreduce-project/assembly/all.xml

file (Ravi Prakash via bobby)

MAPREDUCE-4117. mapred job -status throws NullPointerException (Devaraj K

via bobby)

MAPREDUCE-4099. ApplicationMaster may fail to remove staging directory

(Jason Lowe via bobby)

MAPREDUCE-4017. Add jobname to jobsummary log (tgraves and Koji Noguchi

via bobby)

MAPREDUCE-4040. History links should use hostname rather than IP address.

(Bhallamudi Venkata Siva Kamesh via sseth)

MAPREDUCE-4099 amendment. ApplicationMaster will remove staging directory

after the history service is stopped. (Jason Lowe via sseth)

MAPREDUCE-3932. Fix the TaskAttempt state machine to handle

CONTIANER\_LAUNCHED and CONTIANER\_LAUNCH\_FAILED events in additional

states. (Robert Joseph Evans via sseth)

MAPREDUCE-4140. mapreduce classes incorrectly importing

"clover.org.apache.\*" classes. (Patrick Hunt via tomwhite)

MAPREDUCE-4050. For tasks without assigned containers, changes the node

text on the UI to N/A instead of a link to null. (Bhallamudi Venkata Siva

Kamesh via sseth)

MAPREDUCE-4128. AM Recovery expects all attempts of a completed task to

also be completed. (Bikas Saha via bobby)

MAPREDUCE-4144. Fix a NPE in the ResourceManager when handling node

updates. (Jason Lowe via sseth)

MAPREDUCE-4156. ant build fails compiling JobInProgress (tgraves)

MAPREDUCE-4160. some mrv1 ant tests fail with timeout - due to 4156

(tgraves)

MAPREDUCE-4074. Client continuously retries to RM When RM goes down

before launching Application Master (xieguiming via tgraves)

MAPREDUCE-4159. Job is running in Uber mode after setting

"mapreduce.job.ubertask.maxreduces" to zero (Devaraj K via bobby)

MAPREDUCE-4165. Committing is misspelled as commiting in task logs

(John Eagles via bobby)

MAPREDUCE-4129. Lots of unneeded counters log messages (Ahmed Radwan via

bobby)

MAPREDUCE-3947. yarn.app.mapreduce.am.resource.mb not documented

(Devaraj K via bobby)

MAPREDUCE-4190. Improve web UI for task attempts userlog link (Tom Graves

via bobby)

MAPREDUCE-4133. MR over viewfs is broken (John George via bobby)

MAPREDUCE-4194. ConcurrentModificationError in DirectoryCollection

(Jonathan Eagles via bobby)

MAPREDUCE-3613. web service calls header contains 2 content types

(tgraves)

MAPREDUCE-4169. Container Logs appear in unsorted order (Jonathan Eagles

via bobby)

MAPREDUCE-4189. TestContainerManagerSecurity is failing (Devaraj K via

bobby)

MAPREDUCE-4209. junit dependency in hadoop-mapreduce-client is missing

scope test (Radim Kolar via bobby)

MAPREDUCE-4206. Sorting by Last Health-Update on the RM nodes page sorts

does not work correctly (Jonathon Eagles via tgraves)

MAPREDUCE-4212. TestJobClientGetJob sometimes fails

(Daryn Sharp via tgraves)

MAPREDUCE-4211. Error conditions (missing appid, appid not found) are

masked in the RM app page (Jonathan Eagles via bobby)

MAPREDUCE-4163. consistently set the bind address (Daryn Sharp via bobby)

MAPREDUCE-4048. NullPointerException exception while accessing the

Application Master UI (Devaraj K via bobby)

MAPREDUCE-4220. RM apps page starttime/endtime sorts are incorrect

(Jonathan Eagles via bobby)

MAPREDUCE-4226. ConcurrentModificationException in FileSystemCounterGroup.

(tomwhite)

MAPREDUCE-4215. RM app page shows 500 error on appid parse error

(Jonathon Eagles via tgraves)

MAPREDUCE-4237. TestNodeStatusUpdater can fail if localhost has a domain

associated with it (bobby)

MAPREDUCE-4233. NPE can happen in RMNMNodeInfo. (bobby)

MAPREDUCE-4238. mavenize data\_join. (tgraves)

MAPREDUCE-4102. job counters not available in Jobhistory webui for

killed jobs (Bhallamudi Venkata Siva Kamesh via tgraves)

MAPREDUCE-3543. Mavenize Gridmix. (tgraves)

MAPREDUCE-4197. Include the hsqldb jar in the hadoop-mapreduce tar

file (Ravi Prakash via tgraves)

MAPREDUCE-4269. documentation: Gridmix has javadoc warnings in

StressJobFactory (Jonathon Eagles via tgraves).

MAPREDUCE-3870. Invalid App Metrics

(Bhallamudi Venkata Siva Kamesh via tgraves).

MAPREDUCE-4152. map task left hanging after AM dies trying to connect to RM

(Tom Graves via bobby)

MAPREDUCE-4297. Usersmap file in gridmix should not fail on empty lines

(Ravi Prakash via bobby)

MAPREDUCE-4302. NM goes down if error encountered during log aggregation

(Daryn Sharp via bobby)

MAPREDUCE-3350. Per-app RM page should have the list of application-attempts

like on the app JHS page (Jonathon Eagles via tgraves)

MAPREDUCE-3842. Stop webpages from automatic refreshing (tgraves)

MAPREDUCE-3927. Shuffle hang when set map.failures.percent

(Bhallamudi Venkata Siva Kamesh via tgraves)

MAPREDUCE-4311. Capacity scheduler.xml does not accept decimal values for

capacity and maximum-capacity settings (Karthik Kambatla via tgraves)

MAPREDUCE-4341. add types to capacity scheduler properties documentation

(Karthik Kambatla via tgraves)

MAPREDUCE-4270. Move the data\_join test classes to the correct path.

(Thomas Graves via sseth)

MAPREDUCE-3889. job client tries to use /tasklog interface, but that

doesn't exist anymore (Devaraj K via bobby)

MAPREDUCE-4320. gridmix mainClass wrong in pom.xml (tgraves)

MAPREDUCE-4295. RM crashes due to DNS issue (tgraves)

MAPREDUCE-4228. mapreduce.job.reduce.slowstart.completedmaps is not working

properly (Jason Lowe via bobby)

MAPREDUCE-4392. Counters.makeCompactString() changed behavior from 0.20

(Jason Lowe via bobby)

MAPREDUCE-4384. Race conditions in IndexCache (Kihwal Lee via tgraves)

MAPREDUCE-4387. RM gets fatal error and exits during TestRM

(Kihwal Lee via tgraves)

MAPREDUCE-4379. Node Manager throws java.lang.OutOfMemoryError: Java heap

space due to org.apache.hadoop.fs.LocalDirAllocator.contexts (Devaraj K

via bobby)

MAPREDUCE-4402. TestFileInputFormat fails intermittently (Jason Lowe via

bobby)

MAPREDUCE-4300. OOM in AM can turn it into a zombie. (Robert Evans via

tgraves)

MAPREDUCE-4252. MR2 job never completes with 1 pending task (Tom White via

bobby)

MAPREDUCE-3940. ContainerTokens should have an expiry interval. (Siddharth

Seth and Vinod Kumar Vavilapalli via vinodkv)

MAPREDUCE-4419. ./mapred queue -info <queuename> -showJobs displays all

the jobs irrespective of <queuename> (Devaraj K via bobby)

MAPREDUCE-4299. Terasort hangs with MR2 FifoScheduler (Tom White via

bobby)

MAPREDUCE-4437. Race in MR ApplicationMaster can cause reducers to never be

scheduled (Jason Lowe via bobby)

MAPREDUCE-4449. Incorrect MR\_HISTORY\_STORAGE property name in JHAdminConfig

(Ahmed Radwan via bobby)

MAPREDUCE-4283. Display tail of aggregated logs by default (Jason Lowe via

bobby)

MAPREDUCE-4448. Fix NM crash during app cleanup if aggregation didn't

init. (Jason Lowe via daryn)

MAPREDUCE-3893. allow capacity scheduler configs maximum-applications and

maximum-am-resource-percent configurable on a per queue basis (tgraves via

bobby)

MAPREDUCE-4467. IndexCache failures due to missing synchronization

(Kihwal Lee via tgraves)

MAPREDUCE-4423. Potential infinite fetching of map output (Robert Evans

via tgraves)

MAPREDUCE-4456. LocalDistributedCacheManager can get an

ArrayIndexOutOfBounds when creating symlinks (Robert Evans via tgraves)

MAPREDUCE-4496. AM logs link is missing user name (Jason Lowe via bobby)

MAPREDUCE-4493. Distibuted Cache Compatability Issues (Robert Evans

via tgraves)

MAPREDUCE-4492. Configuring total queue capacity between 100.5 and 99.5 at

perticular level is sucessfull (Mayank Bansal via bobby)

MAPREDUCE-4457. mr job invalid transition TA\_TOO\_MANY\_FETCH\_FAILURE at

FAILED (Robert Evans via tgraves)

MAPREDUCE-4234. SortValidator.java is incompatible with multi-user or

parallel use (due to a /tmp file with static name) (Robert Evans via

jeagles)

MAPREDUCE-4504. SortValidator writes to wrong directory (Robert Evans

via tgraves)

MAPREDUCE-4503. Should throw InvalidJobConfException if duplicates found in

cacheArchives or cacheFiles (Robert Evans via jeagles)

MAPREDUCE-3782. teragen terasort jobs fail when using webhdfs:// (Jason

Lowe via bobby)

MAPREDUCE-4053. Counters group names deprecation is wrong, iterating over

group names deprecated names don't show up (Robert Evans via tgraves)

MAPREDUCE-3506. Calling getPriority on JobInfo after parsing a history log

with JobHistoryParser throws a NullPointerException (Jason Lowe via bobby)

MAPREDUCE-4570. ProcfsBasedProcessTree#constructProcessInfo() prints a

warning if procfsDir/<pid>/stat is not found. (Ahmed Radwan via bobby)

MAPREDUCE-4600. TestTokenCache.java from MRV1 no longer compiles (daryn

via bobby)

MAPREDUCE-4612. job summary file permissions not set when its created

(tgraves via bobby)

MAPREDUCE-4614. Simplify debugging a job's tokens (daryn via bobby)

MAPREDUCE-4611. MR AM dies badly when Node is decommissioned (Robert

Evans via tgraves)

MAPREDUCE-4604. In mapred-default, mapreduce.map.maxattempts &

mapreduce.reduce.maxattempts defaults are set to 4 as well as

mapreduce.job.maxtaskfailures.per.tracker. (Ravi Prakash via jeagles)

MAPREDUCE-4633. history server doesn't set permissions on all subdirs

(tgraves via bobby)

MAPREDUCE-4641. Exception in commitJob marks job as successful in job

history (Jason Lowe via bobby)

MAPREDUCE-4549. Distributed cache conflicts breaks backwards compatability

(Robert Evans via tucu)

Release 0.23.2 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

MAPREDUCE-3849. Change TokenCache's reading of the binary token file

(Daryn Sharp via bobby)

MAPREDUCE-3854. Fixed and reenabled tests related to MR child JVM's

environmental variables in TestMiniMRChildTask. (Tom White via vinodkv)

MAPREDUCE-3877 Add a test to formalise the current state transitions

of the yarn lifecycle. (stevel)

MAPREDUCE-3866. Fixed the bin/yarn script to not print the command line

unnecessarily. (vinodkv)

MAPREDUCE-3730. Modified RM to allow restarted NMs to be able to join the

cluster without waiting for expiry. (Jason Lowe via vinodkv)

MAPREDUCE-2793. Corrected AppIDs, JobIDs, TaskAttemptIDs to be of correct

format on the web pages. (Bikas Saha via vinodkv)

MAPREDUCE-3614. Fixed MR AM to close history file quickly and send a correct

final state to the RM when it is killed. (Ravi Prakash via vinodkv)

MAPREDUCE-3497. Added docs for YARN CLI. (tgraves via acmurthy)

MAPREDUCE-3954. Added new envs to separate heap size for different daemons

started via bin scripts. (Robert Joseph Evans via vinodkv)

MAPREDUCE-4025. AM can crash if task attempt reports bogus progress value

(Jason Lowe via bobby)

MAPREDUCE-4034. Unable to view task logs on history server with

mapreduce.job.acl-view-job=\* (Jason Lowe and Siddarth Seth via bobby)

MAPREDUCE-4043. Secret keys set in Credentials are not seen by tasks

(Jason Lowe via bobby)

MAPREDUCE-3989. Cap space usage of default log4j rolling policy.

(Patrick Hunt via eli)

OPTIMIZATIONS

MAPREDUCE-3901. Modified JobHistory records in YARN to lazily load job and

task reports so as to improve UI response times. (Siddarth Seth via vinodkv)

MAPREDUCE-2855. Passing a cached class-loader to ResourceBundle creator to

minimize counter names lookup time. (Siddarth Seth via vinodkv)

MAPREDUCE-3944. Change the history jobs/ webservice to return partial job

info for a significant performance improvement. (Robert Joseph Evans via

sseth)

BUG FIXES

MAPREDUCE-3918 proc\_historyserver no longer in command line arguments for

HistoryServer (Jon Eagles via bobby)

MAPREDUCE-3862. Nodemanager can appear to hang on shutdown due to lingering

DeletionService threads (Jason Lowe via bobby)

MAPREDUCE-3680. FifoScheduler web service rest API can print out invalid

JSON. (B Anil Kumar via tgraves)

MAPREDUCE-3852. Test TestLinuxResourceCalculatorPlugin failing. (Thomas

Graves via mahadev)

MAPREDUCE-3864. Fix cluster setup docs for correct SecondaryNameNode

HTTPS parameters. (todd)

MAPREDUCE-3583. Change pid to String and stime to BigInteger in order to

avoid NumberFormatException caused by overflow. (Zhihong Yu via szetszwo)

MAPREDUCE-3634. Fixed all daemons to crash instead of hanging around when

their EventHandlers get exceptions. (vinodkv)

MAPREDUCE-3798. Fixed failing TestJobCleanup.testCusomCleanup() and moved it

to the maven build. (Ravi Prakash via vinodkv)

MAPREDUCE-3884. PWD should be first in the classpath of MR tasks (tucu)

MAPREDUCE-3878. Null user on filtered jobhistory job page (Jonathon Eagles

via tgraves)

MAPREDUCE-3738. MM can hang during shutdown if AppLogAggregatorImpl thread

dies unexpectedly (Jason Lowe via sseth)

MAPREDUCE-3904 Job history produced with mapreduce.cluster.acls.enabled

false can not be viewed with mapreduce.cluster.acls.enabled true

(Jonathon Eagles via tgraves)

MAPREDUCE-3910. Fixed a bug in CapacityScheduler LeafQueue which was causing

app-submission to fail. (John George via vinodkv)

MAPREDUCE-3686. Fixed two bugs in Counters because of which web app displays

zero counter values for framework counters. (Bhallamudi Venkata Siva Kamesh

via vinodkv)

MAPREDUCE-3913. RM application webpage is unresponsive after 2000 jobs

(Jason Lowe via tgraves)

MAPREDUCE-3922. Fixed build to not compile 32bit container-executor binary

by default on all platforms. (Hitesh Shah via vinodkv)

MAPREDUCE-3790. Broken pipe on streaming job can lead to truncated output for

a successful job (Jason Lowe via bobby)

MAPREDUCE-3816. capacity scheduler web ui bar graphs for used capacity wrong

(tgraves via bobby)

MAPREDUCE-3930. Fixed an NPE while accessing the AM page/webservice for a

task attempt without an assigned container. (Robert Joseph Evans via

sseth)

MAPREDUCE-3931. Changed PB implementation of LocalResource to take locks

so that race conditions don't fail tasks by inadvertantly changing the

timestamps. (Siddarth Seth via vinodkv)

MAPREDUCE-3687. If AM dies before it returns new tracking URL, proxy

redirects to http://N/A/ and doesn't return error code (Ravi Prakash via

bobby)

MAPREDUCE-3920. Revise yarn default port number selection

(Dave Thompson via tgraves)

MAPREDUCE-3903. Add support for mapreduce admin users. (Thomas Graves via

sseth)

MAPREDUCE-3706. Fix circular redirect error in job-attempts page. (bobby

via acmurthy)

MAPREDUCE-3896. Add user information to the delegation token issued by the

history server. (Vinod Kumar Vavilapalli via sseth)

MAPREDUCE-3792. Fix "bin/mapred job -list" to display all jobs instead of

only the jobs owned by the user. (Jason Lowe via vinodkv)

MAPREDUCE-3929. Fixed output of 'bin/mapred queue -showacl' command to

clarify ACLs for users. (John George via acmurthy)

MAPREDUCE-3960. Fix web-proxy to forward request to AM with configured

hostname or IP. (tgraves via acmurthy)

MAPREDUCE-3897. Fixed computation of maxActiveAppsPerUser for queues by

using capacity and not max-capacity since we are already scaling it by

userLimitFactor. (Eric Payne via acmurthy)

MAPREDUCE-3009. Fixed node link on JobHistory webapp. (chackaravarthy via

vinodkv)

MAPREDUCE-3964. ResourceManager does not have JVM metrics (Jason Lowe via

bobby)

MAPREDUCE-3034. Ensure NodeManager reboots itself on direction from

ResourceManager. (Devaraj K & Eric Payne via acmurthy)

MAPREDUCE-3976. TestRMContainerAllocator failing (Jason Lowe via bobby)

MAPREDUCE-3961. Map/ReduceSlotMillis computation incorrect (Siddharth Seth

via bobby)

MAPREDUCE-3977. LogAggregationService leaks log aggregator objects

(Jason Lowe via bobby)

MAPREDUCE-3975. Default value not set for Configuration parameter

mapreduce.job.local.dir (Eric Payne via bobby)

MAPREDUCE-3982. Fixed FileOutputCommitter to not err out for an 'empty-job'

whose tasks don't write any outputs. (Robert Joseph Evans via vinodkv)

MAPREDUCE-4005. Fixes broken AM container logs URL on ResourceManager

Application Info page. (Jason Lowe via sseth)

MAPREDUCE-4006. History server container log web UI sometimes combines

stderr/stdout/syslog contents together (Siddharth Seth via tgraves)

MAPREDUCE-4061. RM only has 1 AM launcher thread (tgraves via bobby)

Release 0.23.1 - 2012-02-17

NEW FEATURES

MAPREDUCE-778. Rumen Anonymizer. (Amar Kamat and Chris Douglas via amarrk)

MAPREDUCE-3121. NodeManager should handle disk-failures (Ravi Gummadi via mahadev)

MAPREDUCE-2863. Support web services for YARN and MR components. (Thomas

Graves via vinodkv)

MAPREDUCE-3251. Network ACLs can prevent some clients to talk to MR ApplicationMaster.

(Anupam Seth via mahadev)

MAPREDUCE-778. Rumen Anonymizer. (Amar Kamat and Chris Douglas via amarrk)

IMPROVEMENTS

MAPREDUCE-3481. [Gridmix] Improve Gridmix STRESS mode. (amarrk)

MAPREDUCE-3597. [Rumen] Rumen should provide APIs to access all the

job-history related information.

MAPREDUCE-3375. [Gridmix] Memory Emulation system tests.

(Vinay Thota via amarrk)

MAPREDUCE-3840. JobEndNotifier doesn't use the proxyToUse during connecting

(Ravi Prakash via bobby)

MAPREDUCE-3736. Variable substitution depth too large for fs.default.name

causes jobs to fail (ahmed via tucu).

MAPREDUCE-2733. [Gridmix] Gridmix3 cpu emulation system tests.

(Vinay Thota via amarrk)

MAPREDUCE-3297. Moved log related components into yarn-common so that

HistoryServer and clients can use them without depending on the

yarn-server-nodemanager module. (Siddharth Seth via vinodkv)

MAPREDUCE-3336. Replaced guice internal.Preconditions api usage with the

public Preconditions API. (Thomas Graves via vinodkv)

MAPREDUCE-3280. Removed the unnecessary job user-name configuration in

mapred-site.xml. (vinodkv)

MAPREDUCE-3370. Fixed MiniMRYarnCluster and related tests to not use

a hard-coded path for the mr-app jar. (Ahmed Radwan via vinodkv)

MAPREDUCE-3325. Improvements to CapacityScheduler doc. (Thomas Graves

via mahadev)

MAPREDUCE-3341. Enhance logging of initalized queue limit values.

(Anupam Seth via mahadev)

MAPREDUCE-3243. Invalid tracking URL for streaming jobs (Jonathan Eagles

via mahadev)

MAPREDUCE-3331. Improvement to single node cluster setup documentation for

0.23 (Anupam Seth via mahadev)

MAPREDUCE-3102. Changed NodeManager to fail fast when LinuxContainerExecutor

has wrong configuration or permissions. (Hitesh Shah via vinodkv)

MAPREDUCE-3415. improve MiniMRYarnCluster & DistributedShell JAR

resolution. (tucu)

MAPREDUCE-3169. Create a new MiniMRCluster equivalent which only provides

client APIs cross MR1 and MR2. (Ahmed via tucu)

MAPREDUCE-3373. Hadoop scripts unconditionally source

"$bin"/../libexec/hadoop-config.sh. (Bruno Mahé via tomwhite)

MAPREDUCE-3372. HADOOP\_PREFIX cannot be overridden.

(Bruno Mahé via tomwhite)

MAPREDUCE-3411. Performance Upgrade for jQuery (Jonathan Eagles via

mahadev)

MAPREDUCE-3371. Review and improve the yarn-api javadocs. (Ravi Prakash

via mahadev)

MAPREDUCE-3238. Small cleanup in SchedulerApp. (Todd Lipcon via mahadev)

MAPREDUCE-3413. RM web ui applications not sorted in any order by default.

(Jonathan Eagles via mahadev)

MAPREDUCE-3045. Fixed UI filters to not filter on hidden title-numeric

sort fields. (Jonathan Eagles via sseth)

MAPREDUCE-3448. TestCombineOutputCollector javac unchecked warning on mocked

generics (Jonathan Eagles via mahadev)

MAPREDUCE-3169 amendment. Deprecate MiniMRCluster. (Ahmed Radwan via

sseth)

MAPREDUCE-3369. Migrate MR1 tests to run on MR2 using the new interfaces

introduced in MAPREDUCE-3169. (Ahmed Radwan via tomwhite)

MAPREDUCE-3518. mapred queue -info <queue> -showJobs throws NPE.

(Jonathan Eagles via mahadev)

MAPREDUCE-3391. Making a trivial change to correct a log message in

DistributedShell app's AM. (Subroto Sanyal via vinodkv)

MAPREDUCE-3547. Added a bunch of unit tests for the the RM/NM webservices.

(Thomas Graves via acmurthy)

MAPREDUCE-3610. Remove use of the 'dfs.block.size' config for default block

size fetching. Use FS#getDefaultBlocksize instead. (Sho Shimauchi via harsh)

MAPREDUCE-3478. Cannot build against ZooKeeper 3.4.0. (Tom White via mahadev)

MAPREDUCE-3528. Fixed TaskHeartBeatHandler to use a new configuration

for the thread loop interval separate from task-timeout configuration

property. (Siddharth Seth via vinodkv)

MAPREDUCE-3312. Modified MR AM to not send a stop-container request for

a container that isn't launched at all. (Robert Joseph Evans via vinodkv)

MAPREDUCE-3382. Enhanced MR AM to use a proxy to ping the job-end

notification URL. (Ravi Prakash via vinodkv)

MAPREDUCE-3299. Added AMInfo table to the MR AM job pages to list all the

job-attempts when AM restarts and recovers. (Jonathan Eagles via vinodkv)

MAPREDUCE-3251. Network ACLs can prevent some clients to talk to MR AM.

Improved the earlier patch to not to JobHistoryServer repeatedly.

(Anupam Seth via vinodkv)

MAPREDUCE-3553. Add support for data returned when exceptions thrown from web

service apis to be in either xml or in JSON. (Thomas Graves via mahadev)

MAPREDUCE-3641. Making CapacityScheduler more conservative so as to

assign only one off-switch container in a single scheduling

iteration. (Arun C Murthy via vinodkv)

MAPREDUCE-3692. yarn-resourcemanager out and log files can get big. (eli)

MAPREDUCE-3710. Improved FileInputFormat to return better locality for the

last split. (Siddarth Seth via vinodkv)

MAPREDUCE-2765. DistCp Rewrite. (Mithun Radhakrishnan via mahadev)

MAPREDUCE-3737. The Web Application Proxy's is not documented very well.

(Robert Evans via mahadev)

MAPREDUCE-3699. Increased RPC handlers for all YARN servers to reasonable

values for working at scale. (Hitesh Shah via vinodkv)

MAPREDUCE-3693. Added mapreduce.admin.user.env to mapred-default.xml.

(Roman Shapshonik via acmurthy)

MAPREDUCE-3732. Modified CapacityScheduler to use only users with pending

requests for computing user-limits. (Arun C Murthy via vinodkv)

MAPREDUCE-3679. AM logs and others should not automatically refresh after every 1

second. (Vinod KV via mahadev)

MAPREDUCE-3754. Modified RM UI to filter applications based on state of the

applications. (vinodkv)

MAPREDUCE-3774. Moved yarn-default.xml to hadoop-yarn-common from

hadoop-server-common. (Mahadev Konar via vinodkv)

MAPREDUCE-3771. Un-deprecated the old mapred apis, port of MAPREDUCE-1735.

(acmurthy)

MAPREDUCE-3784. Fixed CapacityScheduler so that maxActiveApplications and

maxActiveApplicationsPerUser per queue are not too low for small

clusters. (Arun C Murthy via vinodkv)

OPTIMIZATIONS

MAPREDUCE-3567. Extraneous JobConf objects in AM heap. (Vinod Kumar

Vavilapalli via sseth)

MAPREDUCE-3399. Modifying ContainerLocalizer to send a heartbeat to NM

immediately after downloading a resource instead of always waiting for a

second. (Siddarth Seth via vinodkv)

MAPREDUCE-3568. Optimized Job's progress calculations in MR AM. (vinodkv)

MAPREDUCE-3569. TaskAttemptListener holds a global lock for all

task-updates. (Vinod Kumar Vavilapalli via sseth)

MAPREDUCE-3511. Removed a multitude of cloned/duplicate counters in the AM

thereby reducing the AM heap size and preventing full GCs. (vinodkv)

MAPREDUCE-3618. Fixed TaskHeartbeatHandler to not hold a global lock for all

task-updates. (Siddarth Seth via vinodkv)

MAPREDUCE-3512. Batching JobHistory flushing to DFS so that we don't flush

for every event slowing down AM. (Siddarth Seth via vinodkv)

MAPREDUCE-3718. Change default AM heartbeat interval to 1 second. (Hitesh

Shah via sseth)

MAPREDUCE-3360. Added information about lost/rebooted/decommissioned nodes

on the webapps. (Bhallamudi Venkata Siva Kamesh and Jason Lowe via vinodkv)

MAPREDUCE-3756. Made single shuffle limit configurable. (Hitesh Shah via

acmurthy)

MAPREDUCE-3811. Made jobclient-to-AM retries configurable. (sseth via

acmurthy)

BUG FIXES

MAPREDUCE-2784. [Gridmix] Bug fixes in ExecutionSummarizer and

ResourceUsageMatcher. (amarrk)

MAPREDUCE-3194. "mapred mradmin" command is broken in mrv2

(Jason Lowe via bobby)

MAPREDUCE-3462. Fix Gridmix JUnit testcase failures.

(Ravi Prakash and Ravi Gummadi via amarrk)

MAPREDUCE-2950. [Rumen] Fixed TestUserResolve. (Ravi Gummadi via amarrk)

MAPREDUCE-3412. Fix 'ant docs'. (amarrk)

MAPREDUCE-3346 [Rumen] LoggedTaskAttempt#getHostName() returns null.

(amarrk)

MAPREDUCE-3221. Reenabled the previously ignored test in TestSubmitJob

and fixed bugs in it. (Devaraj K via vinodkv)

MAPREDUCE-3215. Reenabled and fixed bugs in the failing test

TestNoJobSetupCleanup. (Hitesh Shah via vinodkv)

MAPREDUCE-3219. Reenabled and fixed bugs in the failing test

TestDelegationToken. (Hitesh Shah via vinodkv)

MAPREDUCE-3217. Reenabled and fixed bugs in the failing ant test

TestAuditLogger. (Devaraj K via vinodkv)

MAPREDUCE-3291. App fail to launch due to delegation token not

found in cache (Robert Evans via mahadev)

MAPREDUCE-3344. o.a.h.mapreduce.Reducer since 0.21 blindly casts to

ReduceContext.ValueIterator. (Brock Noland via tomwhite)

MAPREDUCE-3342. Fixed JobHistoryServer to also show the job's queue

name. (Jonathan Eagles via vinodkv)

MAPREDUCE-3345. Fixed a race condition in ResourceManager that was causing

TestContainerManagerSecurity to fail sometimes. (Hitesh Shah via vinodkv)

MAPREDUCE-3368. Fixed test compilation. (Hitesh Shah via vinodkv)

MAPREDUCE-3333. Fixed bugs in ContainerLauncher of MR AppMaster due to

which per-container connections to NodeManager were lingering long enough

to hit the ulimits on number of processes. (vinodkv)

MAPREDUCE-3392. Fixed Cluster's getDelegationToken's API to return null

when there isn't a supported token. (John George via vinodkv)

MAPREDUCE-3379. Fixed LocalResourceTracker in NodeManager to remove deleted

cache entries correctly. (Siddharth Seth via vinodkv)

MAPREDUCE-3324. Not All HttpServer tools links (stacks,logs,config,metrics) are

accessible through all UI servers (Jonathan Eagles via mahadev)

MAPREDUCE-3355. Fixed MR AM's ContainerLauncher to handle node-command

timeouts correctly. (vinodkv)

MAPREDUCE-3407. Fixed pom files to refer to the correct MR app-jar needed

by the integration tests. (Hitesh Shah via vinodkv)

MAPREDUCE-3437. Fix examples pom to refer to the correct 0.23 snapshot

version. (Jonathan Eagles via todd)

MAPREDUCE-3434. Nightly build broken (Hitesh Shah via mahadev)

MAPREDUCE-3447. mapreduce examples not working (mahadev)

MAPREDUCE-3444. trunk/0.23 builds broken (Hitesh Shah via mahadev)

MAPREDUCE-3454. [Gridmix] TestDistCacheEmulation is broken (Hitesh Shah

via mahadev)

MAPREDUCE-3408. yarn-daemon.sh unconditionnaly sets yarn.root.logger

(Bruno Mahe via mahadev)

MAPREDUCE-3329. Fixed CapacityScheduler to ensure maximum-capacity cannot

be lesser than capacity for any queue. (acmurthy)

MAPREDUCE-3464. mapreduce jsp pages missing DOCTYPE. (Dave Vronay via mattf)

MAPREDUCE-3265. Removed debug logs during job submission to LOG.debug to

cut down noise. (acmurthy)

MAPREDUCE-3468. Changed ant based infrastructure to use 0.23.1 version.

(sseth via acmurthy)

MAPREDUCE-3433. Finding counters by legacy group name returns empty

counters. (tomwhite)

MAPREDUCE-3450. NM port info no longer available in JobHistory.

(Siddharth Seth via mahadev)

MAPREDUCE-3477. Hadoop site documentation cannot be built anymore.

(jeagles via tucu)

MAPREDUCE-3488. Streaming jobs are failing because the main class

isnt set in the pom files. (mahadev)

MAPREDUCE-3463. Second AM fails to recover properly when first AM is killed with

java.lang.IllegalArgumentException causing lost job. (Siddharth Seth via mahadev)

MAPREDUCE-3452. fifoscheduler web ui page always shows 0% used for the queue.

(Jonathan Eagles via mahadev)

MAPREDUCE-3443. JobClient and Job should function in the context of the

UGI which created them. (Mahadev Konar via sseth)

MAPREDUCE-3460. MR AM can hang if containers are allocated on a node

blacklisted by the AM. (Hitesh Shah and Robert Joseph Evans via sseth)

MAPREDUCE-3453. RM web ui application details page shows RM cluster about

information. (Jonathan Eagles via sseth)

MAPREDUCE-3479. JobClient#getJob cannot find local jobs. (tomwhite)

MAPREDUCE-3500. MRJobConfig creates an LD\_LIBRARY\_PATH using the platform ARCH. (tucu)

MAPREDUCE-3456. $HADOOP\_PREFIX/bin/yarn should set defaults for

$HADOOP\_\*\_HOME (Eric Payne via mahadev)

MAPREDUCE-3458. Fix findbugs warnings in hadoop-examples. (Devaraj K

via mahadev)

MAPREDUCE-3485. DISKS\_FAILED -101 error code should be defined in same location as

ABORTED\_CONTAINER\_EXIT\_STATUS. (Ravi Gummadi via mahadev)

MAPREDUCE-3389. MRApps loads the 'mrapp-generated-classpath' file with

classpath from the build machine. (tucu)

MAPREDUCE-3496. Fixed client to print queue acls in consistent order.

(Jonathan Eagles via acmurthy)

MAPREDUCE-3147. Handle leaf queues with the same name properly.

(Ravi Prakash via mahadev)

MAPREDUCE-3327. RM web ui scheduler link doesn't show correct max value

for queues (Anupam Seth via mahadev)

MAPREDUCE-3513. Capacity Scheduler web UI has a spelling mistake for Memory.

(chackaravarthy via mahadev)

MAPREDUCE-3519. Fixed a deadlock in NodeManager LocalDirectories's handling

service. (Ravi Gummadi via vinodkv)

MAPREDUCE-3527. Fix minor API incompatibilities between 1.0 and 0.23.

(tomwhite)

MAPREDUCE-3328. mapred queue -list output inconsistent and missing child

queues. (Ravi Prakash via mahadev)

MAPREDUCE-3510. Capacity Scheduler inherited ACLs not displayed by mapred queue

-showacls (Jonathan Eagles via mahadev)

MAPREDUCE-3537. Fix race condition in DefaultContainerExecutor which led

to container localization occuring in wrong directories. (acmurthy)

MAPREDUCE-3542. Support "FileSystemCounter" legacy counter group name for

compatibility. (tomwhite)

MAPREDUCE-3426. Fixed MR AM in uber mode to write map intermediate outputs

in the correct directory to work properly in secure mode. (Hitesh Shah via

vinodkv)

MAPREDUCE-3544. gridmix build is broken, requires hadoop-archives to be

added as ivy dependency. (tucu)

MAPREDUCE-3557. MR1 test fail to compile because of missing hadoop-archives

dependency. (tucu)

MAPREDUCE-3541. Fix broken TestJobQueueClient test. (Ravi Prakash via

mahadev)

MAPREDUCE-3398. Fixed log aggregation to work correctly in secure mode.

(Siddharth Seth via vinodkv)

MAPREDUCE-3530. Fixed an NPE occuring during scheduling in the

ResourceManager. (Arun C Murthy via vinodkv)

MAPREDUCE-3484. Fixed JobEndNotifier to not get interrupted before completing

all its retries. (Ravi Prakash via vinodkv)

MAPREDUCE-3531. Fixed a race in ContainerTokenSecretManager. (Robert Joseph

Evans via sseth)

MAPREDUCE-3560. TestRMNodeTransitions is failing on trunk.

(Siddharth Seth via mahadev)

MAPREDUCE-3487. Fixed JobHistory web-UI to display links to single task's

counters' page. (Jason Lowe via vinodkv)

MAPREDUCE-3564. Fixed failures in TestStagingCleanup and TestJobEndNotifier

tests. (Siddharth Seth via vinodkv)

MAPREDUCE-3422. Counter display names are not being picked up. (Jonathan

Eagles via sseth)

MAPREDUCE-3366. Mapreduce component should use consistent directory structure

layout as HDFS/common (Eric Yang via mahadev)

MAPREDUCE-3387. Fixed AM's tracking URL to always go through the proxy, even

before the job started, so that it works properly with oozie throughout

the job execution. (Robert Joseph Evans via vinodkv)

MAPREDUCE-3579. ConverterUtils shouldn't include a port in a path from a url

without a port. (atm via harsh)

MAPREDUCE-3563. Fixed LocalJobRunner to work correctly with new mapreduce

apis. (acmurthy)

MAPREDUCE-3376. Fixed Task to ensure it passes reporter to combiners using

old MR api. (Subroto Sanyal via acmurthy)

MAPREDUCE-3339. Fixed MR AM to stop considering node blacklisting after the

number of nodes blacklisted crosses a threshold. (Siddharth Seth via vinodkv)

MAPREDUCE-3588. Fixed bin/yarn which was broken by MAPREDUCE-3366 so that

yarn daemons can start. (Arun C Murthy via vinodkv)

MAPREDUCE-3349. Log rack-name in JobHistory for unsuccessful tasks. (Amar

Kamat and Devaraj K via sseth)

MAPREDUCE-3586. Modified CompositeService to avoid duplicate stop operations

thereby solving race conditions in MR AM shutdown. (vinodkv)

MAPREDUCE-3604. Fixed streaming to use new mapreduce.framework.name to

check for local mode. (acmurthy)

MAPREDUCE-3521. Fixed streaming to ensure it doesn't silently ignore

unknown arguments. (Robert Evans via acmurthy)

MAPREDUCE-3522. Ensure queues inherit ACLs from parent if they aren't

explicitly specified. (Jonathan Eagles via acmurthy)

MAPREDUCE-3608. Fixed compile issue with MAPREDUCE-3522. (mahadev via

acmurthy)

MAPREDUCE-3490. Fixed MapReduce AM to count failed maps also towards Reduce

ramp up. (Sharad Agarwal and Arun C Murthy via vinodkv)

MAPREDUCE-3529. TokenCache does not cache viewfs credentials correctly

(sseth)

MAPREDUCE-3595. Add missing TestCounters#testCounterValue test from branch

1 to 0.23 (Tom White via sseth)

MAPREDUCE-3566. Fixed MR AM to construct CLC only once across all tasks.

(vinodkv via acmurthy)

MAPREDUCE-3572. Moved AM event dispatcher to a separate thread for

performance reasons. (vinodkv via acmurthy)

MAPREDUCE-3615. Fix some ant test failures. (Thomas Graves via sseth)

MAPREDUCE-1744. DistributedCache creates its own FileSytem instance when

adding a file/archive to the path. (Dick King via tucu)

MAPREDUCE-3326. Added detailed information about queue's to the

CapacityScheduler web-ui. (Jason Lowe via acmurthy)

MAPREDUCE-3548. Added more unit tests for MR AM & JHS web-services.

(Thomas Graves via acmurthy)

MAPREDUCE-3617. Removed wrong default value for

yarn.resourcemanager.principal and yarn.nodemanager.principal. (Jonathan

Eagles via acmurthy)

MAPREDUCE-3624. Remove unnecessary dependency on JDK's tools.jar. (mahadev

via acmurthy)

MAPREDUCE-3616. Thread pool for launching containers in MR AM not

expanding as expected. (vinodkv via sseth)

MAPREDUCE-3639. Fixed TokenCache to work with absent FileSystem canonical

service-names. (Siddharth Seth via vinodkv)

MAPREDUCE-3380. Token infrastructure for running clients which are not kerberos

authenticated. (mahadev)

MAPREDUCE-3648. TestJobConf failing. (Thomas Graves via mahadev)

MAPREDUCE-3651. TestQueueManagerRefresh fails. (Thomas Graves via mahadev)

MAPREDUCE-3645. TestJobHistory fails. (Thomas Graves via mahadev)

MAPREDUCE-3652. org.apache.hadoop.mapred.TestWebUIAuthorization.testWebUIAuthorization

fails. (Thomas Graves via mahadev)

MAPREDUCE-3625. CapacityScheduler web-ui display of queue's used capacity is broken.

(Jason Lowe via mahadev)

MAPREDUCE-3596. Fix scheduler to handle cleaned up containers, which NMs

may subsequently report as running. (Vinod Kumar Vavilapalli via sseth)

MAPREDUCE-3656. Fixed a race condition in MR AM which is failing the sort

benchmark consistently. (Siddarth Seth via vinodkv)

MAPREDUCE-3532. Modified NM to report correct http address when an ephemeral

web port is configured. (Bhallamudi Venkata Siva Kamesh via vinodkv)

MAPREDUCE-3404. Corrected MR AM to honor speculative configuration and enable

speculating either maps or reduces. (Eric Payne via vinodkv)

MAPREDUCE-3664. Federation Documentation has incorrect configuration example.

(Brandon Li via jitendra)

MAPREDUCE-3649. Job End notification gives an error on calling back.

(Ravi Prakash via mahadev)

MAPREDUCE-3657. State machine visualize build fails. (Jason Lowe

via mahadev)

MAPREDUCE-2450. Fixed a corner case with interrupted communication threads

leading to a long timeout in Task. (Rajesh Balamohan via acmurthy)

MAPREDUCE-3669. Allow clients to talk to MR HistoryServer using both

delegation tokens and kerberos. (mahadev via acmurthy)

MAPREDUCE-3684. LocalDistributedCacheManager does not shut down its thread

pool (tomwhite)

MAPREDUCE-3582. Move successfully passing MR1 tests to MR2 maven tree.

(ahmed via tucu)

MAPREDUCE-3698. Client cannot talk to the history server in secure mode.

(mahadev)

MAPREDUCE-3689. RM web UI doesn't handle newline in job name.

(Thomas Graves via mahadev)

MAPREDUCE-3701. Delete HadoopYarnRPC from 0.23 branch.

(mahadev)

MAPREDUCE-3549. write api documentation for web service apis for RM, NM,

mapreduce app master, and job history server (Thomas Graves via mahadev)

MAPREDUCE-3705. ant build fails on 0.23 branch. (Thomas Graves via

mahadev)

MAPREDUCE-3691. webservices add support to compress response.

(Thomas Graves via mahadev)

MAPREDUCE-3702. internal server error trying access application master

via proxy with filter enabled (Thomas Graves via mahadev)

MAPREDUCE-3646. Remove redundant URL info from "mapred job" output.

(Jonathan Eagles via mahadev)

MAPREDUCE-3681. Fixed computation of queue's usedCapacity. (acmurthy)

MAPREDUCE-3505. yarn APPLICATION\_CLASSPATH needs to be overridable.

(ahmed via tucu)

MAPREDUCE-3714. Fixed EventFetcher and Fetcher threads to shut-down properly

so that reducers don't hang in corner cases. (vinodkv)

MAPREDUCE-3712. The mapreduce tar does not contain the hadoop-mapreduce-client-

jobclient-tests.jar. (mahadev)

MAPREDUCE-3717. JobClient test jar has missing files to run all the test programs.

(mahadev)

MAPREDUCE-3630. Fixes a NullPointer exception while running TeraGen - if a

map is asked to generate 0 records. (Mahadev Konar via sseth)

MAPREDUCE-3683. Fixed maxCapacity of queues to be product of parent

maxCapacities. (acmurthy)

MAPREDUCE-3713. Fixed the way head-room is allocated to applications by

CapacityScheduler so that it deducts current-usage per user and not

per-application. (Arun C Murthy via vinodkv)

MAPREDUCE-3721. Fixed a race in shuffle which caused reduces to hang.

(sseth via acmurthy)

MAPREDUCE-3733. Add Apache License Header to hadoop-distcp/pom.xml.

(mahadev)

MAPREDUCE-3735. Add distcp jar to the distribution (tar).

(mahadev)

MAPREDUCE-3720. Changed bin/mapred job -list to not print job-specific

information not available at RM. (vinodkv via acmurthy)

MAPREDUCE-3742. "yarn logs" command fails with ClassNotFoundException.

(Jason Lowe via mahadev)

MAPREDUCE-3703. ResourceManager should provide node lists in JMX output.

(Eric Payne via mahadev)

MAPREDUCE-3716. Fixing YARN+MR to allow MR jobs to be able to use

java.io.File.createTempFile to create temporary files as part of their

tasks. (Jonathan Eagles via vinodkv)

MAPREDUCE-3748. Changed a log in CapacityScheduler.nodeUpdate to debug.

(ramya via acmurthy)

MAPREDUCE-3764. Fixed resource usage metrics for queues and users.

(acmurthy)

MAPREDUCE-3749. ConcurrentModificationException in counter groups.

(tomwhite)

MAPREDUCE-3762. Fixed default CapacityScheduler configs. (mahadev via

acmurthy)

MAPREDUCE-3499. New MiniMR does not setup proxyuser configuration

correctly, thus tests using doAs do not work. (johnvijoe via tucu)

MAPREDUCE-3696. MR job via oozie does not work on hadoop 23.

(John George via mahadev)

MAPREDUCE-3427. Fix streaming unit tests broken after mavenization.

(Hitesh Shah via acmurthy)

MAPREDUCE-3640. Allow AMRecovery to work with partial JobHistory files.

(Arun C Murthy via sseth)

MAPREDUCE-3752. Modified application limits to include queue max-capacities

besides the usual user limits. (Arun C Murthy via vinodkv)

MAPREDUCE-3744. Fix the yarn logs command line. Improve error messages for

mapred job -logs. (Jason Lowe via sseth)

MAPREDUCE-3780. Fixed a bug where applications killed before getting

activated were not getting cleaned up properly. (Hitesh Shah via acmurthy)

MAPREDUCE-3708. Metrics: Incorrect Apps Submitted Count (Bhallamudi via

mahadev)

MAPREDUCE-3727. jobtoken location property in jobconf refers to wrong

jobtoken file (tucu)

MAPREDUCE-3711. Fixed MR AM recovery so that only single selected task

output is recovered and thus reduce the unnecessarily bloated recovery

time. (Robert Joseph Evans via vinodkv)

MAPREDUCE-3760. Changed active nodes list to not contain unhealthy nodes

on the webUI and metrics. (vinodkv)

MAPREDUCE-3417. Fixed job-access-controls to work with MR AM and

JobHistoryServer web-apps. (Jonathan Eagles via vinodkv)

MAPREDUCE-3803. Fix broken build of raid contrib due to HDFS-2864.

(Ravi Prakash via suresh)

MAPREDUCE-3791. can't build site in hadoop-yarn-server-common.

(mahadev)

MAPREDUCE-3723. TestAMWebServicesJobs & TestHSWebServicesJobs

incorrectly asserting tests (Bhallamudi Venkata Siva Kamesh

via mahadev)

MAPREDUCE-3795. "job -status" command line output is malformed.

(vinodkv via mahadev)

MAPREDUCE-3759. ClassCastException thrown in -list-active-trackers when

there are a few unhealthy nodes (vinodkv via mahadev)

MAPREDUCE-3775. Change MiniYarnCluster to escape special chars in testname.

(Hitesh Shah via mahadev)

MAPREDUCE-3765. FifoScheduler does not respect yarn.scheduler.fifo.minimum-

allocation-mb setting (Hitesh Shah via mahadev)

MAPREDUCE-3747. Initialize queue metrics upfront and added start/finish

time to RM Web-UI. (acmurthy)

MAPREDUCE-3814. Fixed MRV1 compilation. (Arun C Murthy via vinodkv)

MAPREDUCE-3810. Performance tweaks - reduced logging in AM and defined

hascode/equals for ResourceRequest & Priority. (vinodkv via acmurthy)

MAPREDUCE-3813. Added a cache for resolved racks. (vinodkv via acmurthy)

MAPREDUCE-3808. Fixed an NPE in FileOutputCommitter for jobs with maps

but no reduces. (Robert Joseph Evans via vinodkv)

MAPREDUCE-3804. yarn webapp interface vulnerable to cross scripting attacks

(Dave Thompson via bobby)

MAPREDUCE-3354. Changed scripts so that jobhistory server is started by

bin/mapred instead of bin/yarn. (Jonathan Eagles via acmurthy)

MAPREDUCE-3809. Ensure that there is no needless sleep in Task at the end

of the task. (sseth via acmurthy)

MAPREDUCE-3794. Support mapred.Task.Counter and mapred.JobInProgress.Counter

enums for compatibility (Tom White via mahadev)

MAPREDUCE-3697. Support binary compatibility for Counters after

MAPREDUCE-901. (mahadev via acmurthy)

MAPREDUCE-3817. Fixed bin/mapred to allow running of distcp and archive

jobs. (Arpit Gupta via acmurthy)

MAPREDUCE-3709. TestDistributedShell is failing. (Hitesh Shah via

mahadev)

MAPREDUCE-3436. JobHistory webapp address should use the host configured

in the jobhistory address. (Ahmed Radwan via sseth)

MAPREDUCE-3815. Fixed MR AM to always use hostnames and never IPs when

requesting containers so that scheduler can give off data local containers

correctly. (Siddarth Seth via vinodkv)

MAPREDUCE-3833. Fixed a bug in reinitiaziling of queues. (Jason Lowe via

acmurthy)

MAPREDUCE-3826. Fixed a bug in RM web-ui which broke sorting. (Jonathan

Eagles via acmurthy)

MAPREDUCE-3823. Ensure counters are calculated only once after a job

finishes. (Vinod Kumar Vavilapalli via sseth)

MAPREDUCE-3827. Changed Counters to use ConcurrentSkipListMap for

performance. (vinodkv via acmurthy)

MAPREDUCE-3822. Changed FS counter computation to use all occurences of

the same FS scheme, instead of randomly using one. (Mahadev Konar via

sseth)

MAPREDUCE-3834. Changed MR AM to not add the same rack entry multiple times

into the container request table when multiple hosts for a split happen to

be on the same rack. (Siddarth Seth via vinodkv)

MAPREDUCE-3828. Ensure that urls in single-node mode are correct. (sseth

via acmurthy)

MAPREDUCE-3770. Zombie.getJobConf() results into NPE. (amarrk)

MAPREDUCE-3843. Job summary log file found missing on the RM host

(Anupam Seth via tgraves)

MAPREDUCE-3846. Addressed MR AM hanging issues during AM restart and then

the recovery. (vinodkv)

MAPREDUCE-3802. Added test to validate that AM can crash multiple times and

still can recover successfully after MAPREDUCE-3846. (vinodkv)

MAPREDUCE-3858. Task attempt failure during commit results in task never completing.

(Tom White via mahadev)

MAPREDUCE-3856. Instances of RunningJob class givs incorrect job tracking

urls when mutiple jobs are submitted from same client jvm. (Eric Payne via

sseth)

MAPREDUCE-3880. Changed LCE binary to be 32-bit. (acmurthy)

Release 0.23.0 - 2011-11-01

INCOMPATIBLE CHANGES

MAPREDUCE-2455. Remove deprecated JobTracker.State in favour of

JobTrackerStatus. (tomwhite)

MAPREDUCE-2430. Remove mrunit contrib. (nigel via eli)

MAPREDUCE-2606. Remove IsolationRunner. (Alejandro Abdelnur via eli)

NEW FEATURES

MAPREDUCE-2682. Add "mapred classpath" command to print classpath

for MR applications. (vinodkv via acmurthy)

MAPREDUCE-2107. [Gridmix] Total heap usage emulation in Gridmix.

(Amar Kamat and Ravi Gummadi via amarrk)

MAPREDUCE-2106. [Gridmix] Cumulative CPU usage emulation in Gridmix.

(amarrk)

MAPREDUCE-2543. [Gridmix] High-Ram feature emulation in Gridmix. (amarrk)

MAPREDUCE-2408. [Gridmix] Compression emulation in Gridmix. (amarrk)

MAPREDUCE-2473. Add "mapred groups" command to query the server-side groups

resolved for a user. (Aaron T. Myers via todd)

MAPREDUCE-461. Enable ServicePlugins for the JobTracker.

(Fredrik Hedberg via tomwhite)

MAPREDUCE-2521. Create RPM and Debian packages for MapReduce. Changes

deployment layout to be consistent across the binary tgz, rpm, and deb.

(Eric Yang via omalley)

MAPREDUCE-2323. Add metrics to the fair scheduler. (todd)

MAPREDUCE-2037. Capture intermediate progress, CPU and memory usage for

tasks. (Dick King via acmurthy)

MAPREDUCE-279. MapReduce 2.0. Merging MR-279 branch into trunk. Contributed by

Arun C Murthy, Christopher Douglas, Devaraj Das, Greg Roelofs, Jeffrey

Naisbitt, Josh Wills, Jonathan Eagles, Krishna Ramachandran, Luke Lu, Mahadev

Konar, Robert Evans, Sharad Agarwal, Siddharth Seth, Thomas Graves, and Vinod

Kumar Vavilapalli.

MAPREDUCE-2930. Added the ability to be able to generate graphs from the

state-machine definitions. (Binglin Chang via vinodkv)

MAPREDUCE-2719. Add a simple, DistributedShell, application to illustrate

alternate frameworks on YARN. (Hitesh Shah via acmurthy)

MAPREDUCE-3104. Implemented Application-acls. (vinodkv)

MAPREDUCE-2708. Designed and implemented MR Application Master recovery to

make MR AMs resume their progress after restart. (Sharad Agarwal via vinodkv)

MAPREDUCE-2858. Added a WebApp Proxy for applications. (Robert Evans via

acmurthy)

IMPROVEMENTS

MAPREDUCE-2187. Reporter sends progress during sort/merge. (Anupam Seth via

acmurthy)

MAPREDUCE-2365. Add counters to track bytes (read,written) via

File(Input,Output)Format. (Siddharth Seth via acmurthy)

MAPREDUCE-2680. Display queue name in job client CLI. (acmurthy)

MAPREDUCE-2679. Minor changes to sync trunk with MR-279 branch. (acmurthy)

MAPREDUCE-2400. Remove Cluster's dependency on JobTracker via a

ServiceProvider for the actual implementation. (tomwhite via acmurthy)

MAPREDUCE-2596. [Gridmix] Summarize Gridmix runs. (amarrk)

MAPREDUCE-2563. [Gridmix] Add High-Ram emulation system tests to

Gridmix. (Vinay Kumar Thota via amarrk)

MAPREDUCE-2104. [Rumen] Add Cpu, Memory and Heap usages to

TraceBuilder's output. (amarrk)

MAPREDUCE-2554. [Gridmix] Add distributed cache emulation system tests

to Gridmix. (Vinay Kumar Thota via amarrk)

MAPREDUCE-2543. [Gridmix] High-Ram feature emulation testcase. (amarrk)

MAPREDUCE-2469. Task counters should also report the total heap usage of

the task. (Ravi Gummadi and Amar Ramesh Kamat via amarrk)

MAPREDUCE-2544. [Gridmix] Add compression emulation system tests to

Gridmix. (Vinay Kumar Thota via amarrk)

MAPREDUCE-2517. [Gridmix] Add system tests to Gridmix.

(Vinay Kumar Thota via amarrk)

MAPREDUCE-2492. The new MapReduce API should make available task's

progress to the task. (amarrk)

MAPREDUCE-2153. Bring in more job configuration properties in to the trace

file. (Rajesh Balamohan via amarrk)

MAPREDUCE-1461. Feature to instruct rumen-folder utility to skip jobs worth

of specific duration. (Rajesh Balamohan via amarrk)

MAPREDUCE-2172. Added test-patch.properties required by test-patch.sh

(nigel)

MAPREDUCE-2156. Raid-aware FSCK. (Patrick Kling via dhruba)

MAPREDUCE-2215. A more elegant FileSystem#listCorruptFileBlocks API

(RAID changes) (Patrick Kling via hairong)

MAPREDUCE-1831. BlockPlacement policy for HDFS-RAID.

(Scott Chen via dhruba)

MAPREDUCE-1906. Lower minimum heartbeat interval for TaskTracker

(Scott Carey and Todd Lipcon via todd)

MAPREDUCE-1382. MRAsyncDiscService should tolerate missing local.dir.

(Zheng Shao and tomwhite via tomwhite)

MAPREDUCE-2263. MapReduce side of HADOOP-6904: RPC compatibility.

(hairong)

MAPREDUCE-1706. Log RAID recoveries on HDFS. (schen)

MAPREDUCE-2334. Update BlockPlacementPolicyRaid for the new method

in BlockPlacementPolicy. (szetszwo)

MAPREDUCE-2254. Allow setting of end-of-record delimiter for

TextInputFormat (Ahmed Radwan via todd)

MAPREDUCE-1927. Unit test for HADOOP-6835 (concatenated gzip support).

(Greg Roelofs via tomwhite)

MAPREDUCE-2206. The task-cleanup tasks should be optional. (schen)

MAPREDUCE-2225. MultipleOutputs should not require the use of 'Writable'.

(Harsh J Chouraria via tomwhite)

MAPREDUCE-1811. Job.monitorAndPrintJob() should print status of the job

at completion. (Harsh J Chouraria via tomwhite)

MAPREDUCE-993. bin/hadoop job -events <jobid> <from-event-#> <#-of-events>

help message is confusing. (Harsh J Chouraria via tomwhite)

MAPREDUCE-2302. Add static factory methods in GaloisField. (schen)

MAPREDUCE-2351. mapred.job.tracker.history.completed.location should

support an arbitrary filesystem URI. (tomwhite)

MAPREDUCE-2239. BlockPlacementPolicyRaid should call getBlockLocations

only when necessary. (schen)

MAPREDUCE-2331. Add coverage of task graph servlet to fair scheduler system

test. (todd)

MAPREDUCE-2367. Allow using a file to exclude certain tests from build.

(todd)

MAPREDUCE-2202. Generalize CLITest structure and interfaces to faciliate

upstream adoption (e.g. for web or system testing). (cos)

MAPREDUCE-2420. JobTracker should be able to renew delegation token over

HTTP (Boris Shkolnik via jitendra)

MAPREDUCE-2474. Add docs to the new API Partitioner on how to access the

Job Configuration. (Harsh J Chouraria via todd)

MAPREDUCE-2475. Disable IPV6 for junit tests. (suresh srinivas via mahadev)

MAPREDUCE-2422. Removed unused internal methods from DistributedCache.

(tomwhite)

MAPREDUCE-2456. Log the reduce taskID and associated TaskTrackers with

failed fetch notifications in the JobTracker log.

(Jeffrey Naisbitt via cdouglas)

MAPREDUCE-869. Documentation for config to set map/reduce task environment

(Alejandro Abdelnur via todd)

MAPREDUCE-2410. Add entry to streaming FAQ about how streaming reducers

receive keys. (Harsh J Chouraria via todd)

MAPREDUCE-2499. MR part of HADOOP-7291. (eli)

MAPREDUCE-2497. Missing spaces in error messages. (eli)

MAPREDUCE-2502. JobSubmitter should use mapreduce.job.maps instead of

its deprecated equivalent. (eli via todd)

MAPREDUCE-2381. JobTracker instrumentation not consistent about error

handling. (Philip Zeyliger via tomwhite)

MAPREDUCE-2449. Allow for command line arguments when performing

"Run on Hadoop" action in Eclipse plugin. (Jeff Zemerick via todd)

MAPREDUCE-2483. Remove duplication of jars between Hadoop subprojects

from build artifacts. (Eric Yang via omalley)

MAPREDUCE-2372. TaskLogAppender mechanism shouldn't be set up in

log4j.properties (todd)

MAPREDUCE-2516. Rename webinterface.private.actions to

mapreduce.jobtracker.webinterface.trusted (Ari Rabkin via todd)

MAPREDUCE-2459. Cache HAR filesystem metadata. (Mac Yang via mahadev)

HADOOP-7259. Contrib modules should include the build.properties from

the enclosing hadoop directory. (omalley)

MAPREDUCE-2494. Order distributed cache deletions by LRU. (Robert Joseph

Evans via cdouglas)

MAPREDUCE-2452. Makes the cancellation of delegation tokens happen in a

separate thread. (ddas)

HADOOP-7106. Reorganize project SVN layout to "unsplit" the projects.

(todd, nigel)

MAPREDUCE-2249. Check the reflexive property of Counters objects when

comparing equality. (Devaraj K via todd)

MAPREDUCE-2623. Update ClusterMapReduceTestCase to use

MiniDFSCluster.Builder (Harsh J Chouraria via eli)

MAPREDUCE-2602. Allow setting of end-of-record delimiter for

TextInputFormat for the old API. (Ahmed Radwan via todd)

MAPREDUCE-2705. Permits parallel multiple task launches.

(Thomas Graves via ddas)

MAPREDUCE-2489. Jobsplits with random hostnames can make the queue

unusable (jeffrey naisbit via mahadev)

MAPREDUCE-2854. update INSTALL with config necessary run mapred on yarn.

(thomas graves via mahadev)

MAPREDUCE-2701. app/Job.java needs UGI for the user that launched it.

(Robert Evans via mahadev)

MAPREDUCE-2652. Enabled multiple NMs to be runnable on a single node by

making shuffle service port to be truely configurable. (Robert Evans via

vinodkv)

MAPREDUCE-2735. Add an applications summary log to ResourceManager.

(Thomas Graves via acmurthy)

MAPREDUCE-2697. Enhance CapacityScheduler to cap concurrently running

applications per-queue & per-user. (acmurthy)

Configuration changes:

add yarn.capacity-scheduler.maximum-am-resource-percent

MAPREDUCE-2774. Add startup message to ResourceManager & NodeManager on

startup. (Venu Gopala Rao via acmurthy)

MAPREDUCE-2655. Add audit logs to ResourceManager and NodeManager. (Thomas

Graves via acmurthy)

MAPREDUCE-2864. Normalize configuration variable names for YARN. (Robert

Evans via acmurthy)

MAPREDUCE-2690. Web-page for FifoScheduler. (Eric Payne via acmurthy)

MAPREDUCE-2711. Update TestBlockPlacementPolicyRaid for the new namesystem

and block management APIs. (szetszwo)

MAPREDUCE-2933. Change allocate call to return ContainerStatus for

completed containers rather than Container. (acmurthy)

MAPREDUCE-2675. Reformat JobHistory Server main page to be more

useful. (Robert Joseph Evans via vinodkv).

MAPREDUCE-2896. Simplify all apis to in

org.apache.hadoop.yarn.api.records.\* to be get/set only. Added javadocs to

all public records. (acmurthy)

MAPREDUCE-2676. MR-279: JobHistory Job page needs reformatted. (Robert Evans via

mahadev)

MAPREDUCE-2899. Replace major parts of ApplicationSubmissionContext with a

ContainerLaunchContext (Arun Murthy via mahadev)

MAPREDUCE-2966. Added ShutDown hooks for MRV2 processes so that they can

gracefully exit. (Abhijit Suresh Shingate via vinodkv)

MAPREDUCE-2672. MR-279: JobHistory Server needs Analysis this job.

(Robert Evans via mahadev)

MAPREDUCE-2965. Streamlined the methods hashCode(), equals(), compareTo()

and toString() for all IDs. (Siddharth Seth via vinodkv)

MAPREDUCE-2726. Added job-file to the AM and JobHistoryServer web

interfaces. (Jeffrey Naisbitt via vinodkv)

MAPREDUCE-2880. Improve classpath-construction for mapreduce AM and

containers. (Arun C Murthy via vinodkv)

MAPREDUCE-3055. Simplified ApplicationAttemptId passing to

ApplicationMaster via environment variable. (vinodkv)

MAPREDUCE-3092. Removed a special comparator for JobIDs in JobHistory as

JobIDs are already comparable. (Devaraj K via vinodkv)

MAPREDUCE-3099. Add docs for setting up a single node MRv2 cluster.

(mahadev)

MAPREDUCE-3001. Added task-specific counters to AppMaster and JobHistory

web-UIs. (Robert Joseph Evans via vinodkv)

MAPREDUCE-3098. Fixed RM and MR AM to report YarnApplicationState and

application's FinalStatus separately. (Hitesh Shah via vinodkv)

MAPREDUCE-2889. Added documentation for writing new YARN applications.

(Hitesh Shah via acmurthy)

MAPREDUCE-3134. Added documentation the CapacityScheduler. (acmurthy)

MAPREDUCE-3013. Removed YarnConfiguration.YARN\_SECURITY\_INFO and its usage

as it doesn't affect security any more. (vinodkv)

MAPREDUCE-2907. Changed log level for various messages in ResourceManager

from INFO to DEBUG. (Ravi Prakash via vinodkv)

MAPREDUCE-2702. Added a new API in OutputCommitter for recovering

the outputs of tasks from a crashed job so as to support MR Application

Master recovery. (Sharad Agarwal and Arun C Murthy via vinodkv)

MAPREDUCE-2738. Added the missing cluster level statistics on the RM web

UI. (Robert Joseph Evans via vinodkv)

MAPREDUCE-2988. Reenabled TestLinuxContainerExecutor reflecting the

current NodeManager code. (Robert Joseph Evans via vinodkv)

MAPREDUCE-3161. Improved some javadocs and fixed some typos in

YARN. (Todd Lipcon via vinodkv)

MAPREDUCE-3148. Ported MAPREDUCE-2702 to old mapred api for aiding task

recovery. (acmurthy)

MAPREDUCE-3133. Running a set of methods in a Single Test Class.

(Jonathan Eagles via mahadev)

MAPREDUCE-3059. QueueMetrics do not have metrics for aggregate

containers-allocated and aggregate containers-released.

(Devaraj K via mahadev)

MAPREDUCE-3187. Add names for various unnamed threads in MR2.

(Todd Lipcon and Siddharth Seth via mahadev)

MAPREDUCE-3136. Added documentation for setting up Hadoop clusters in both

non-secure and secure mode for both HDFS & YARN. (acmurthy)

MAPREDUCE-3068. Added a whitelist of environment variables for containers

from the NodeManager and set MALLOC\_ARENA\_MAX for all daemons and

containers. (Chris Riccomini via acmurthy)

MAPREDUCE-3144. Augmented JobHistory with the information needed for

serving aggregated logs. (Siddharth Seth via vinodkv)

MAPREDUCE-3163. JobClient spews errors when killing MR2 job.

(mahadev)

MAPREDUCE-3239. Use new createSocketAddr API in MRv2 to give better

error messages on misconfig (Todd Lipcon via mahadev)

MAPREDUCE-2747. Cleaned up LinuxContainerExecutor binary sources and changed

the configuration to use yarn names. (Robert Joseph Evans via vinodkv)

MAPREDUCE-3205. Fix memory specifications to be physical rather than

virtual, allowing for a ratio between the two to be configurable. (todd

via acmurthy)

MAPREDUCE-2986. Fixed MiniYARNCluster to support multiple NodeManagers.

(Anupam Seth via vinodkv)

MAPREDUCE-2736. Remove unused contrib components dependent on MR1. (eli)

MAPREDUCE-2989. Modified JobHistory to link to task and AM logs from the

JobHistoryServer. (Siddharth Seth via vinodkv)

MAPREDUCE-3014. Rename and invert logic of '-cbuild' profile to 'native' and off

by default. (tucu)

MAPREDUCE-3171. normalize nodemanager native code compilation with common/hdfs

native. (tucu)

MAPREDUCE-3146. Added a MR specific command line to dump logs for a

given TaskAttemptID. (Siddharth Seth via vinodkv)

MAPREDUCE-3275. Added documentation for AM WebApp Proxy. (Robert Evans via

acmurthy)

MAPREDUCE-3322. Added a better index.html and an brief overview of YARN

architecture. (acmurthy)

OPTIMIZATIONS

MAPREDUCE-2026. Make JobTracker.getJobCounters() and

JobInProgress.getCounters() aquire locks in a shorter time period.

(Joydeep Sen Sarma via schen)

MAPREDUCE-2740. MultipleOutputs in new API creates needless

TaskAttemptContexts. (todd)

MAPREDUCE-901. Efficient framework counters. (llu via acmurthy)

MAPREDUCE-2629. Workaround a JVM class loading quirk which prevents

JIT compilation of inner classes methods in ReduceContextImpl.

BUG FIXES

MAPREDUCE-2603. Disable High-Ram emulation in system tests.

(Vinay Kumar Thota via amarrk)

MAPREDUCE-2539. Fixed NPE in getMapTaskReports in JobClient. (Robert Evans via

acmurthy)

MAPREDUCE-1978. Rumen TraceBuilder should provide recursive

input folder scanning.

MAPREDUCE-2416. Remove the restriction of specifying group names in

users-list file for Gridmix in RoundRobinUserResolver mode.

MAPREDUCE-2417. Fix Gridmix in RoundRobinUserResolver mode to

map testing/proxy users to unique users in a trace.

MAPREDUCE-2307. Exception thrown in Jobtracker logs, when the Scheduler

configured is FairScheduler. (Devaraj K via matei)

MAPREDUCE-2199. build is broken 0.22 branch creation. (cos)

MAPREDUCE-1752. Implement getFileBlockLocations in HarFilesystem.

(Patrick Kling via dhruba)

MAPREDUCE-2155. RaidNode should optionally use the mapreduce jobs to

fix missing blocks. (Patrick Kling via dhruba)

MAPREDUCE-1334. Fix TestIndexUpdater by ignoring \_SUCCESS file in HDFS.

(Kay Kay via yhemanth)

MAPREDUCE-2232. Add missing methods to TestMapredGroupMappingServiceRefresh.

(Todd Lipcon via eli)

MAPREDUCE-2271. Fix TestSetupTaskScheduling failure on trunk.

(Liyin Liang via todd)

MAPREDUCE-2290. Fix compilation error in TestTaskCommit. (eli)

MAPREDUCE-2294. Fix compilation error in mumak. (todd)

MAPREDUCE-2300. Fix TestUmbilicalProtocolWithJobToken on trunk after

HADOOP-6904. (todd)

MAPREDUCE-2296. Fix references to misspelled method name

getProtocolSigature (todd)

MAPREDUCE-2311. Fix TestFairScheduler failure (schen)

MAPREDUCE-1996. API: Reducer.reduce() method detail misstatement.

(Harsh J Chouraria via tomwhite)

MAPREDUCE-2203. Wrong javadoc for TaskRunner's appendJobJarClasspaths

method. (Jingguo Yao via tomwhite)

MAPREDUCE-2074. Task should fail when symlink creation fails.

(Priyo Mustafi via tomwhite)

MAPREDUCE-1242. Chain APIs error misleading.

(Harsh J Chouraria via tomwhite)

MAPREDUCE-2379. Adds missing DistributedCache configurations in

mapred-default.xml (Todd Lipcon via amareshwari)

MAPREDUCE-2348. Disable mumak tests on trunk since they currently time out

(todd)

MAPREDUCE-2395. TestBlockFixer timing out on trunk. (Ramkumar Vadali via

todd)

MAPREDUCE-2426. Make TestFairSchedulerSystem fail with more verbose output

(todd)

MAPREDUCE-2448. NoSuchMethodError:

org.apache.hadoop.hdfs.TestDatanodeBlockScanner.corruptReplica(..) (eli)

MAPREDUCE-2460. Fix flaky test TestFairSchedulerSystem. (todd)

MAPREDUCE-2451. Log the details from health check script at the

JobTracker. (Thomas Graves via cdouglas)

MAPREDUCE-2467. HDFS-1052 changes break the raid contrib module in

MapReduce. (suresh srinivas via mahadev)

MAPREDUCE-2258. IFile reader closes stream and compressor in wrong order.

(todd via tomwhite)

MAPREDUCE-2518. The t flag is missing in distcp help message. (Wei Yongjun

via szetszwo)

MAPREDUCE-2514. Fix typo in TaskTracker ReinitTrackerAction log message.

(Jonathan Eagles via cdouglas)

MAPREDUCE-2490. Add logging to graylist and blacklist activity to aid

diagnosis of related issues. (Jonathan Eagles via cdouglas)

MAPREDUCE-2495. exit() the TaskTracker when the distributed cache cleanup

thread dies. (Robert Joseph Evans via cdouglas)

MAPREDUCE-2470. Fix NPE in RunningJobs::getCounters. (Robert Joseph Evans

via cdouglas)

MAPREDUCE-2536. Update FsShell -mv command usage in TestMRCLI. (Daryn

Sharp via szetszwo)

MAPREDUCE-2529. Add support for regex-based shuffle metric counting

exceptions. (Thomas Graves via cdouglas)

MAPREDUCE-2559. ant binary fails due to missing c++ lib dir. (eli)

MAPREDUCE-2573. Fix new findbugs warning introduced by MAPREDUCE-2494.

(Robert Joseph Evans via todd)

MAPREDUCE-2581. Spelling errors in log messages. (Tim Sell via eli)

MAPREDUCE-2588. Change raid to the new DataTransferProtocol API. (szetszwo)

MAPREDUCE-2576. Typo in comment in SimulatorLaunchTaskAction.java.

(Tim Sell via jghoman)

MAPREDUCE-2550. Fix bin/mapred to work properly from within a source

checkout (Eric Yang via todd)

MAPREDUCE-2620. Update RAID for HDFS-2087. (szetszwo)

MAPREDUCE-2624. Update RAID for HDFS-2107. (szetszwo)

MAPREDUCE-2670. Fixing spelling mistake in FairSchedulerServlet.java. (eli)

MAPREDUCE-2710. Update JobSubmitter.printTokens(..) for HDFS-2161.

(szetszwo)

MAPREDUCE-2409. DistributedCache maps files and archives to the same path,

despite semantic incompatibility. (Siddharth Seth via cdouglas)

MAPREDUCE-2575. TestMiniMRDFSCaching fails if test.build.dir is set

to something other than build/test (Thomas Graves via mahadev)

MAPREDUCE-2622. Remove the last remaining reference to the deprecated

configuration "io.sort.mb". (Harsh J Chouraria via todd)

MAPREDUCE-2732. Remove directly accessing FSNamesystem.LOG from

TestCopyFiles and TestDistCh. (szetszwo)

MAPREDUCE-2463. Job history files are not moved to done folder when job

history location is hdfs. (Devaraj K via szetszwo)

MAPREDUCE-2243. Close streams propely in a finally-block to avoid leakage

in CompletedJobStatusStore, TaskLog, EventWriter and TotalOrderPartitioner.

(Devaraj K via szetszwo)

MAPREDUCE-2741. Make ant build system work with hadoop-common JAR

generated by Maven. (Alejandro Abdelnur via tomwhite)

MAPREDUCE-2760. mapreduce.jobtracker.split.metainfo.maxsize typoed

in mapred-default.xml. (todd via eli)

MAPREDUCE-2797. Update mapreduce tests and RAID for HDFS-2239. (szetszwo)

MAPREDUCE-2805. Update RAID for HDFS-2241. (szetszwo)

MAPREDUCE-2837. Ported bug fixes from y-merge to prepare for MAPREDUCE-279

merge. (acmurthy)

MAPREDUCE-2541. Fixed a race condition in IndexCache.removeMap. (Binglin

Chang via acmurthy)

MAPREDUCE-2458. Rename sanitized pom.xml in build directory to work around IDE

bug (Luke Lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Clear application notification if sent once

to NodeManager (mahadev)

MAPREDUCE-2433. YARNApplicationConstants hard code app master jar version (Luke

Lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Implement restart for resource manager

phase 1 - Helper classes to store and restore the data structures. (mahadev)

MAPREDUCE-2414. Change MRv2 to use generic interfaces. (Siddharth Seth via

acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Implement health-checks for the node -

server side(ResourceManager) changes. (vinodkv)

MAPREDUCE-2405: Implement uber-AppMaster (in-cluster LocalJobRunner for MRv2)

(Greg Roelofs via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Implementing Containers' memory monitoring.

(vinodkv)

MAPREDUCE-2440. Name clashes in TypeConverter (luke via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Add fail count to the command line of the

application master. (mahadev)

MAPREDUCE-2424. Polish uber-AppMaster: add uber-AM counters and GUI indicators.

(Greg Roelofs via mahadev)

MAPREDUCE-2405. Implement uber-AppMaster (in-cluster LocalJobRunner for MRv2).

(Greg Roelofs and Sharad Agarwal via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix YarnRemoteException to give more

details. (Siddharth Seth via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. WebApp for Job History (Krishna

Ramachandran via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Install sanitized poms for downstream

sanity (Luke Lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Add HistoryCleanerService to Job History

server. (Krishna Ramachandran via sharad)

MAPREDUCE-279. Fix in MR-279 branch. Implement 'bin/mapred job -list' and

'bin/mapred job -list-active-trackers'. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Implement 'bin/mapred queue [-info

[-showJobs]] [-list] and enhanced 'bin/mapred job -list' to show queue and

ApplicationMaster information. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fixed computation of user-limits at

runtime. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Added functionality to refresh queues at

runtime via the 'bin/yarn rmadmin' command. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Added functionality to stop/start queues.

(acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Introducing web-UI for NodeManager and

linking it from RM UI. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fix race condition in TestJobHistoryEvents

and TestJobHistoryParsing. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Add Containers' logs' view to NM UI and

link it from AM UI. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Add ACLs for queues and command-line

utilities for viewing them. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Recovery of MR Application Master from

failures. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Added support High-RAM applications in

CapacityScheduler. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Completing the ZooKeeper Store for

ResourceManager state. (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Reorient container localization to be

per-container rather than per-application. (cdouglas)

MAPREDUCE-279. Fix in MR-279 branch. Fix file creation in

JobHistoryEventHandler. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Disable ContainerMonitoring for non-linux

systems. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fix container launch w/ inconsistent

credential file naming. (cdouglas)

MAPREDUCE-2434. Metrics for ResourceManager. (Luke Lu via acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. RM Restart Phase 2 - Completed the recovery

of components in the RM (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix to send finish application event only

when the application is finished (mahadev)

MAPREDUCE-2462. Write job conf along with JobHistory, other minor improvements.

(Siddharth Seth via sharad)

MAPREDUCE-279. Fix in MR-279 branch. Implement 'delay scheduling' for better

locality in CapacityScheduler and improved high-ram applications. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Implement Job Acls in MR Application

Master. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Moving userlogs out of container work-dir

into a separate directory structure. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Completing RM Restart. Completed Phase 3 of

making sure events are logged and restored (mahadev)

MAPREDUCE-2468. Add metrics for NM Shuffle. (Luke Lu via cdouglas)

MAPREDUCE-279. Fix in MR-279 branch. Adding user log handling for YARN. Making

NM put the user-logs on DFS and providing log-dump tools. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixing three tight-loops in RM that are

causing high cpu-usage. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Replacing FileContext usage with FileSystem

to work around security authentication issues with FileContext against a secure

DFS. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Client reconnect to restarted AM. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Fix refreshProxy in ClientServiceDelegate.

(sharad)

MAPREDUCE-279. Fix in MR-279 branch. Fix Null Pointer in TestUberAM. (sharad)

MAPREDUCE-2478. Improve history server. (Siddharth Seth via sharad)

MAPREDUCE-279. Fix in MR-279 branch. Improved TestJobHistoryEvents and

TestJobHistoryParsing. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Fix NM to use multiple disks for local

files and the userlogs. (vinodkv)

MAPREDUCE-2480: MR App should not depend on hard coded version of shuffle (luke

lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Propagate error back to client in case of a

job submission failure (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix assembly to add mapreduce shell scripts

to the assembly package. (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix TestQueueMetrics. (Luke Lu via sharad)

MAPREDUCE-279. Fix in MR-279 branch. Removal of stale application-log dirs from

NM local disks. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Add license header and minor cleanup in

history server. (Siddharth Seth via sharad)

MAPREDUCE-279. Fix in MR-279 branch. Minor fix for install instructions.

(mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix a race in MR task that was causing MR

containers to overwrite each other's job.xml. Also fix leaking attempt-dirs in

app-local-dir. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Adding valid state to ASM on a finish when

its already completed and also disble UberAM. (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fixed CS user limits. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fixed reservation's bad interaction with

delay scheduling in CS. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Support mapreduce old (0.20) APIs. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Support fail-fast for MR jobs. (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fix for clearing container requests on an

AM failure and add tostring methods to taskids and taskattemptids for better

grep support. (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Speed up communication between MR AM and RM

by relying on a new config rather than AM\_EXPIRY\_INTERVAL which is too large.

(acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fix calculation of maximum capacity to use

parent's absolute-capacity rather than the leaf queue's absolute-capacity.

(acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fixing a bug in JobIDPbImpl that's causing

AM to crash randomly. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fix calculation of maximum capacity in

ParentQueue to use its parent's absolute-capacity rather than its own

absolute-capacity. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Launching bin/yarn and bin/mapred only

\*once\* in AM for constructing classpaths to avoid multiple forks and huge vmem

usage by AM. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fix CapacityScheduler to release unused

reservations on application completion. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fix CapacityScheduler (LeafQueue) to not

allocate DATA\_LOCAL containers when they are not required on the rack.

(acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Makes uber-task disabled by default (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Make logging and memory for AM configurable

for the user via command line (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fixing a bug in previous patch (r1103657).

Now bin/yarn truly shouldn't be launched multiple times in a single AM.

(vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixing a bug to do with setting the staging

dir. (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fixed Composite Service to shutdown

services if an error occurs on starting any one of those (mahadev & chris)

MAPREDUCE-279. Fix in MR-279 branch. Fix the tests to use jvm fork mode to avoid

errors in shutting down services (sidharth seth)

MAPREDUCE-2500. PB factories are not thread safe (Siddharth Seth via mahadev)

MAPREDUCE-2504. race in JobHistoryEventHandler stop (Siddharth Seth via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix job hang if the AM launch fails.

(mahadev)

MAPREDUCE-2509. Fix NPE in UI for pending attempts. (Luke Lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Add junit jar to lib in assembly (mahadev

and luke)

MAPREDUCE-279. Fix in MR-279 branch. Distributed cache bug fix to pass Terasort.

(vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fix null pointer exception in kill task

attempt (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Refactored RMContainerAllocator to release

unused containers. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Changed Scheduler to return available limit

to AM in the allocate api. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fix nodemanager expiry to not throw OOM.

(mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Use DefaultContainerExecutor for

integration tests. (cdouglas)

MAPREDUCE-279. Fix in MR-279 branch. Fix NPE in test case (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix for regression on the scheduling of

reduces before maps are done (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fix distributed-cache related bugs.

(vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Ensure unused containers released by AM are

correctly counted for queue-capacity. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fix TestRuntimeEstimators (Siddharth Seth

via ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fix queue refresh to correctly record newly

added queues in CapacityScheduler. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Added metrics for tracking reservations in

CapacityScheduler. (Luke Lu via acmurthy)

MAPREDUCE-2522. Security for JobHistory service. (Siddharth Seth via mahadev)

MAPREDUCE-2534. Fix CI breaking hard coded version in jobclient pom. (Luke Lu

via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Add public cache. (cdouglas)

MAPREDUCE-279. Fix in MR-279 branch. Made number of RPC server threads

configurable. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Added acl check for RMAdmin. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Adding job kill for any state that the job

is in with access control. (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Add debug statements for AM not launching

(mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fixing race condition leader to hung jobs

in scheduler negotiator (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Add debug config for delaying delete of

local files. (cdouglas)

MAPREDUCE-2527. Metrics for MRAppMaster (Luke lu via mahadev)

MAPREDUCE-2532. Metrics for NodeManager (Luke Lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fixed an NPE during handling of unnecessary

reservations in CS. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fix for public dist cache to work with non

default hdfs (mahadev &ddas)

MAPREDUCE-279. Fix in MR-279 branch. Making streaming -file option work. Also

minor fixes for successful compilation of contrib tests. (vinodkv)

MAPREDUCE-2536. Backporting changes to MR-279.

MAPREDUCE-279. Fix in MR-279 branch. Bugfix for using user staging directory for

history files (Siddharth Seth via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. First fix for making basic speculative

execution work (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fixes for TestFail/Kill (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Set correct version of avro-maven-plugin

that is available in apache maven repositories. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixing and reneabling

TestContainerTokenSecretManager. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Cleaning up configuration constants in

mapreduce modules. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixing NPE on speculator in MRAppMaster and

making job-history optional in tests to make test goal succeed. (vinodk and

sharadag).

MAPREDUCE-279. Fix in MR-279 branch. Fixed NPE in CS by checking Application

state before scheduling and fixing synchronization in CS. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Making pipes work with YARN. Changed pipes

to get log-locations from an environmental variable. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Ensure 'lost' NodeManagers are dealt

appropriately, the containers are released correctly. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Adding some more logging for AM expiry logs

(mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Reduce ramp up and zero maps support.

(sharad)

MAPREDUCE-279. Fix in MR-279 branch. Allowing hdfs calls from streaming/pipes

tasks. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Added ability to decommission nodes and

completed RM administration tools to achieve parity with JobTracker. (acmurthy)

MAPREDUCE-2551. Added JobSummaryLog. (Siddharth Seth via acmurthy)

MAPREDUCE-2552. Fixed NPE in CompletedJob in JobHistoryServer. (Siddharth Seth

via acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fix reduce slow start. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Fixed TestFifoScheduler. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fix build issue for using yarn.version

instead of hadoop-mapred.version (mahadev and giri)

MAPREDUCE-279. Fix in MR-279 branch. Fixes in the handling of KILL events in the

SUCCEEDED state for tasks in the application master (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fix for NPE in TestRMNMRPCResponseId.

(mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix a deadlock in the resourcemanager.

(mahadev)

MAPREDUCE-279. Fix in MR-279 branch. NodeStatus.getNodeHealthStatus().setBlah

broken (Siddharth Seth)

MAPREDUCE-279. Fix in MR-279 branch. Fix another NPE in TestRMNMRPCResponseId.

(mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix for NPE in TestNMExpiry (siddharth

seth)

MAPREDUCE-279. Fix in MR-279 branch. Making each node aggregate all its

user-logs to a separate hdfs file. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fix calculation of max-capacity for a

queue, also fixed a bug in registration of NodeManagers. (acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. More cleaning up constants, removing stale

code, and making conspicuous the envs that apps depend on to be provided by

YARN. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fix container size rounding in AM and

headroom in RM. (acmurthy and sharad)

MAPREDUCE-279. Fix in MR-279 branch. Disable Job acls until fixed (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix to report job status if the application

is KILLED/FAILED. (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix a corner case in headroom computation -

now reservations are taken into account and headroom is computed much later to

account for allocations/reservations. (acmurthy)

MAPREDUCE-2537. The RM writes its log to

yarn-mapred-resourcemanager-<RM\_Host>.out (Robert Evans via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix logging for showing the state of job

(FAILED/KILLED/SUCCEEDED) when it completes (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Re-enabled TestCapacityScheduler.

(acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Support for min and max container capacity.

(acmurthy and sharad)

MAPREDUCE-2531. Fixed jobcontrol to downgrade JobID. (Robert Evans via acmurthy)

MAPREDUCE-2539. Fixed NPE in getMapTaskReports in JobClient. (Robert Evans via

acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fixing the wrong config key used in

JobHistory that prevented configuring move-thread interval. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixed inconsistency in QueueACL enums.

(acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Fix various issues with Web UI's. (Luke Lu)

MAPREDUCE-279. Fix in MR-279 branch. Fix class cast exception in Task abort for

old mapreduce apis. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Add deletion of distributed cache

resources. (cdouglas)

MAPREDUCE-279. Fix in MR-279 branch. Disable aggregation of logs onto DFS till

JobHistoryServer starts serving logs. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Cleanup redundant code in TaskAttemptImpl.

(sharad)

MAPREDUCE-279. Fix in MR-279 branch. Work around broken signaling in public

cache. (cdouglas)

MAPREDUCE-2566. YarnConfiguration should reloadConfiguration if instantiated

with a non YarnConfiguration object. (Siddharth Seth)

MAPREDUCE-279. Fix in MR-279 branch. Fully resolve paths when launching

containers. (Siddharth Seth)

MAPREDUCE-279. Fix in MR-279 branch. Re-enabling Uber-AM feature. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixed deadlock during expiring NMs.

(acmurthy)

MAPREDUCE-279. Fix in MR-279 branch. Solving NPEs during

ContainerManager#StopContainer. Also removing the unused

ContainerManager#CleanupContainer api. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Remove retries in dist cache so that NM's

do not shutdown (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix classpath construction for Task.

(vinodkv via sharad)

MAPREDUCE-279. Fix in MR-279 branch. Sending Job diagnostics from AM to RM and

redirect to history-url on job completion. (vinodkv and sharadag)

MAPREDUCE-279. Fix in MR-279 branch. Added clover in pom dependency. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Intermittent TestMRApp failures on faster

Linux desktop. (Luke lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Including source files in release

distribution (Luke Lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Intermittent TestMRApp failures on faster

Linux desktop (part 2) (Luke lu via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Disable Uber AM. (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Added few job diagnostic messages. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Add ability to includes src files in

assembly target for maven (Luke Lu via mahadev)

MAPREDUCE-2582. Cleanup JobHistory event generation.(Siddharth Seth via sharad)

MAPREDUCE-279. Fix in MR-279 branch. Fix rounding off problem in reduce ramp up.

(sharad)

MAPREDUCE-279. Fix in MR-279 branch. Fix more rounding off problems in reduce

ramp up. Also fix a bug preventing the application of the cap on reduce ramp-up.

(Sharad Agarwal via vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fix to exclude images dir into the tar

distribution (Luke Lu via gkesavan)

MAPREDUCE-279. Fix in MR-279 branch. Changes a couple of usages of FileContext

to FileSystem in YarnRunner to handle distributed cache path resolutions on

non-default filesystems. (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Display failed/killed attempts of the task

on MR AM UI separately. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Miscellaneous UI fixes + source code

formatting for MR JobHistoryEventHandler. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixing broken link to logs for container on

NM web UI. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixing the bug which was causing FAILED

jobs to be displayed as COMPLETED on the RM UI. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Job level node blacklisting. (sharad)

MAPREDUCE-279. Fix in MR-279 branch. Fix NPE in history event handling

(Siddharth Seth via mahadev)

MAPREDUCE-2569. Ensure root queue allocated 100% capacity. (Jonathan Eagles via

cdouglas)

MAPREDUCE-279. Fix in MR-279 branch. Fix ClassCastException in JobHistoryServer

for certain jobs. (Siddharth Seth via llu)

MAPREDUCE-279. Fix in MR-279 branch. Changes for invoking rack resolution in the

RM and in the AM (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fix concurrent modification exception in

the Capacity Scheduler (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix stopContainer for setsid challenged

platforms. (llu)

MAPREDUCE-2587. Generate yarn version for UI. (Thomas Graves via lluts page to

the history server UI. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Bug fix to set correct state on containers

so as to avoid duplicate containers from RM to AM. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Hack until MAPREDUCE-2365 is fixed to make

PIG work with MRV2. (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Changes a couple of usages of FileContext

to FileSystem in TaskAttemptImpl to handle distributed cache path resolutions on

non-default filesystems. (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fix NPE when requesting attempts for

completed jobs. (Siddharth Seth via llu)

MAPREDUCE-279. Fix in MR-279 branch. Improve logging for AM when requesting

containers to show the right ask and release fields (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix race condition between multiple

localizers on a single node. (cdouglas via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix RM app start/finish time and

diagnostics. (llu)

MAPREDUCE-279. Fix in MR-279 branch. Fix to schedule reduces irrespective of the

headroom when all maps are done so as to avoid stall in reduce-scheduling when

slow-start is disabled. (Sharad Agarwal via vinodkv).

MAPREDUCE-279. Fix in MR-279 branch. Disabling locality-wait in

CapacityScheduler for now to prevent uber-slow scheduling for apps with no

data-locality constraints (sleep-job like). (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Fixing scheduling deadlock in AM because of

incorrect headRoom values from RM. The bug happens when AM releases containers

and RM decrements current memory usage twice for all those containers. (vinodkv)

MAPREDUCE-2611. Fix counters, finish times etc. in job history. (Siddharth Seth

via llu)

MAPREDUCE-279. Fix in MR-279 branch. Fix for ConcurrentModification exception

while iterating through tokens in a UGI in ContainerLauncherImpl. (ddas)

MAPREDUCE-279. Fix in MR-279 branch. Fix for NPE in YarnChild that was causing

lots of tasks to fail. (vinodkv)

MAPREDUCE-2615. Make killJob go through AM and fix JobSummaryLog. (Siddharth

Seth via llu)

MAPREDUCE-279. Fix in MR-279 branch. Fix class cast exception in release

reserved containers in capacity scheduler (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix diagnostics display for more than 100

apps in RM. (llu)

MAPREDUCE-279. Fix in MR-279 branch. Fix some invalid transitions in the RM.

(vinodkv via ddas)

MAPREDUCE-2618. Fix NPE in 0 map 0 reduce jobs. (Jeffrey Naisbitt via llu)

MAPREDUCE-2625. Add version info to nodemanager info page. (Jonathan Eagles via

llu)

MAPREDUCE-279. Fix in MR-279 branch. (1) Faster retries from AM to HistoryServer

(2) Correct diagnostics for containers. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Major ASM cleanup. Streamlining classes,

interface and events. (vinodkv)

MAPREDUCE-279. Fix in MR-279 branch. Reinstate resolve path fixes for viewfs.

(Siddharth Seth via llu)

MAPREDUCE-2633. Add a getCounter(Enum) method to the Counters record. (Josh

Wills via sharad)

MAPREDUCE-2645. Updates to MRv2 INSTALL and README documentation. (Josh Wills

via vinodkv)

MAPREDUCE-2628. Add compiled on date to NM and RM info/about page.

MAPREDUCE-2400. Remove Cluster's dependency on JobTracker via a ServiceProvider

for the actual implementation. (tomwhite via acmurthy)

MAPREDUCE-2663. Refactoring StateMachineFactory inner classes. (ahmed radwan via

mahadev)

MAPREDUCE-2678. minimum-user-limit-percent no longer honored. (naisbitt via

mahadev)

MAPREDUCE-2630. refreshQueues leads to NPEs when used w/FifoScheduler. (Josh

Wills via mahadev)

MAPREDUCE-2644. NodeManager fails to create containers when NM\_LOG\_DIR is not

explicitly set in the Configuration. (Josh Wills via vinodkv)

MAPREDUCE-2661. Fix TaskImpl to not access MapTaskImpl. (Ahmed Radwan via

sharad)

HADOOP-6929. Backport changes to MR-279 (mahadev and owen)

HADOOP-6929. Making Security Info abstract and not an interface (mahadev)

MAPREDUCE-2667. mapred job -kill leaves application in RUNNING state (thomas

graves via mahadev)

MAPREDUCE-2664. Implement JobCounters for Mtions as asynchronous. (vinodkv,

sharad and acmurthy)

MAPREDUCE-2773. server.api.records.NodeHealthStatus renamed but not updated in

client NodeHealthStatus.java (Thomas Graves via mahadev)

MAPREDUCE-2772. Fix MR-279 build after common mavenization. (Robert Joseph Evans

via llu)

MAPREDUCE-2772. Fix MR-279 build after common mavenization, part 2. (Thomas

Graves via llu)

MAPREDUCE-279. Fix in MR-279 branch. Harmonize slf4j versions. (llu)

MAPREDUCE-279. Fix in MR-279 branch. Fix NPE in FifoScheduler. (mahadev)

MAPREDUCE-2776. Fix some of the yarn findbug warnings. (Siddharth Seth via

mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix findbugs warnings in mr-client modules,

part 1 (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix findbugs warnings in mr-client modules

part 2 (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix findbugs warnings in mr-client modules

part 3 (mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix the poms to enable 0.23 snapshots for

hdfs/common from apache nightly builds (gkesavan)

MAPREDUCE-279. Fix in MR-279 branch. Fix ivy conf to work with the hadoop common

trunk maven build changes. (Giridharan Kesavan)

MAPREDUCE-279. Fix in MR-279 branch. Patch for findbugs warnings in Resource

Manager (Siddharth Seth via mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fix for running ant targets to use the

right set of common/test jars (gkesavan via mahadev)

MAPREDUCE-2782. Unit tests for CapacityScheduler. (acmurthy)

MAPREDUCE-2706. Log job submission failures. (Jeffrey Naisbitt via acmurthy)

MAPREDUCE-2781. mr279 RM application finishtime not set (Thomas Graves via

mahadev)

MAPREDUCE-279. Fix in MR-279 branch. Fixed CS locality wait factor. (acmurthy)

MAPREDUCE-2808. pull MAPREDUCE-2797 into mr279 branch (Thomas Graves via

mahadev)

MAPREDUCE-2639. Bug fixes in speculate.DataStatistics. (Josh Wills via acmurthy)

MAPREDUCE-2839. Fixed TokenCache to get delegation tokens using both new and old

apis. (Siddharth Seth via acmurthy)

MAPREDUCE-2727. Fix divide-by-zero error in SleepJob for sleepCount equals 0.

(Jeffrey Naisbitt via acmurthy)

MAPREDUCE-2839. Fixed TokenCache to get delegation tokens using both new

and old apis. (Siddharth Seth via acmurthy)

MAPREDUCE-2727. Fix divide-by-zero error in SleepJob for sleepCount equals

0. (Jeffrey Naisbitt via acmurthy)

MAPREDUCE-2860. Fix log4j logging in the maven test cases. (mahadev)

MAPREDUCE-2867. Remove Unused TestApplicaitonCleanup in resourcemanager/applicationsmanager.

(mahadev)

MAPREDUCE-2868. ant build broken in hadoop-mapreduce dir (mahadev, giri and arun via mahadev)

MAPREDUCE-2649. Handling of finished applications in RM. (Thomas Graves

via acmurthy)

MAPREDUCE-2838. Fix MapReduce builds to use new hadoop-common test jars.

(gkesavan via acmurthy)

MAPREDUCE-2859. Fix eclipse plugin contrib module compilation (gkesavan)

MAPREDUCE-2846. Fix missing synchronization in the task log management.

(omalley)

MAPREDUCE-2807. Fix AM restart and client redirection. (sharad)

MAPREDUCE-2877. Add missing Apache license header in some files in MR

and also add the rat plugin to the poms. (mahadev)

MAPREDUCE-2796. Set start times for MR applications for clients to see.

(Devaraj K via acmurthy)

MAPREDUCE-2879. Fix version for MR-279 to 0.23.0. (acmurthy)

MAPREDUCE-2881. Fix to include log4j 1.2.16 depenency (gkesavan)

MAPREDUCE-2885. Fix mapred-config.sh to look for hadoop-config.sh in

HADOOP\_COMMON\_HOME/libexec. (acmurthy)

MAPREDUCE-2893. Remove duplicate entry of YarnClientProtocolProvider in

ClientProtocolProvider services file. (Liang-Chi Hsieh via acmurthy)

MAPREDUCE-2891. Javadoc for AMRMProtocol and related records. (acmurthy)

MAPREDUCE-2898. Javadoc for ContainerManager protocol and related records.

(acmurthy)

MAPREDUCE-2904. Fixed bin/yarn to correctly include HDFS jars and

clean up of stale refs to pre-mavenized Hadoop Common and HDFS.

(Sharad Agarwal and Arun C. Murthy via acmurthy)

MAPREDUCE-2737. Update the progress of jobs on client side. (Siddharth Seth

and Mahadev Konar via mahadev)

MAPREDUCE-2886. Fix Javadoc warnings in MapReduce. (mahadev)

MAPREDUCE-2897. Javadoc for ClientRMProtocol protocol and related records.

(acmurthy)

MAPREDUCE-2916. Ivy build for MRv1 fails with bad organization for

common daemon. (mahadev)

MAPREDUCE-2917. Fixed corner case in container reservation which led to

starvation and hung jobs. (acmurthy)

MAPREDUCE-2756. Better error handling in JobControl for failed jobs.

(Robert Evans via acmurthy)

MAPREDUCE-2716. MRReliabilityTest job fails because of missing

job-file. (Jeffrey Naisbitt via vinodkv)

MAPREDUCE-2882. TestLineRecordReader depends on ant jars. (todd)

MAPREDUCE-2687. Fix NodeManager to use the right version of

LocalDirAllocator.getLocalPathToWrite. (mahadev & acmurthy)

MAPREDUCE-2800. Set final progress for tasks to ensure all task information

is correctly logged to JobHistory. (Siddharth Seth via acmurthy)

MAPREDUCE-2938. Log application submission failure in CapacityScheduler.

(acmurthy)

MAPREDUCE-2948. Hadoop streaming test failure, post MR-2767 (mahadev)

MAPREDUCE-2908. Fix all findbugs warnings. (vinodkv via acmurthy)

MAPREDUCE-2947. Fixed race condition in AuxiliaryServices. (vinodkv via

acmurthy)

MAPREDUCE-2844. Fixed display of nodes in UI. (Ravi Teja Ch N V via

acmurthy)

MAPREDUCE-2677. Fixed 404 for some links from HistoryServer. (Robert Evans

via acmurthy)

MAPREDUCE-2937. Ensure reason for application failure is displayed to the

user. (mahadev via acmurthy)

MAPREDUCE-2953. Fix a race condition on submission which caused client to

incorrectly assume application was gone by making submission synchronous

for RMAppManager. (Thomas Graves via acmurthy)

MAPREDUCE-2963. Fix hang in TestMRJobs. (Siddharth Seth via acmurthy)

MAPREDUCE-2954. Fixed a deadlock in NM caused due to wrong synchronization

in protocol buffer records. (Siddharth Seth via vinodkv)

MAPREDUCE-2975. Fixed YARNRunner to use YarnConfiguration rather than

Configuration. (mahadev via acmurthy)

MAPREDUCE-2971. ant build mapreduce fails protected access jc.displayJobList

(jobs) (Thomas Graves via mahadev)

MAPREDUCE-2691. Finishing up the cleanup of distributed cache file resources

and related tests. (Siddharth Seth via vinodkv)

MAPREDUCE-2749. Ensure NM registers with RM after starting all its services

correctly. (Thomas Graves via acmurthy)

MAPREDUCE-2979. Removed the needless ClientProtocolProvider configuration

from the hadoop-mapreduce-client-core module. (Siddharth Seth via vinodkv)

MAPREDUCE-2985. Fixed findbugs warnings in ResourceLocalizationService.

(Thomas Graves via acmurthy)

MAPREDUCE-2874. Fix formatting of ApplicationId in web-ui. (Eric Payne via

acmurthy)

MAPREDUCE-2995. Better handling of expired containers in MapReduce

ApplicationMaster. (vinodkv via acmurthy)

MAPREDUCE-2995. Fixed race condition in ContainerLauncher. (vinodkv via

acmurthy)

MAPREDUCE-2949. Fixed NodeManager to shut-down correctly if a service

startup fails. (Ravi Teja via vinodkv)

MAPREDUCE-3005. Fix both FifoScheduler and CapacityScheduler to correctly

enforce locality constraints. (acmurthy)

MAPREDUCE-3007. Fixed Yarn Mapreduce client to be able to connect to

JobHistoryServer in secure mode. (vinodkv)

MAPREDUCE-2987. Fixed display of logged user on RM Web-UI. (Thomas Graves

via acmurthy)

MAPREDUCE-3006. Fixed MapReduce AM to exit only after properly writing out

history file. (vinodkv)

MAPREDUCE-2925. Fixed Yarn+MR client code to behave saner with completed

jobs. (Devaraj K via vinodkv)

MAPREDUCE-3030. Fixed a bug in NodeId.equals() that was causing RM to

reject all NMs. (Devaraj K via vinodkv)

MAPREDUCE-3042. Fixed default ResourceTracker address. (Chris Riccomini

via acmurthy)

MAPREDUCE-3038. job history server not starting because conf() missing

HsController (Jeffrey Naisbitt via mahadev)

MAPREDUCE-3004. Fix ReduceTask to not assume 'local' mode in YARN. (Hitesh

Shah via acmurthy)

MAPREDUCE-3017. The Web UI shows FINISHED for killed/successful/failed jobs.

(mahadev)

MAPREDUCE-3040. Fixed extra copy of Configuration in

YarnClientProtocolProvider and ensured MiniMRYarnCluster sets JobHistory

configuration for tests. (acmurthy)

MAPREDUCE-3018. Fixed -file option for streaming. (mahadev via acmurthy)

MAPREDUCE-3036. Fixed metrics for reserved resources in CS. (Robert Evans

via acmurthy)

MAPREDUCE-2998. Fixed a bug in TaskAttemptImpl which caused it to fork

bin/mapred too many times. (vinodkv via acmurthy)

MAPREDUCE-3023. Fixed clients to display queue state correctly. (Ravi

Prakash via acmurthy)

MAPREDUCE-2970. Fixed NPEs in corner cases with different configurations

for mapreduce.framework.name. (Venu Gopala Rao via vinodkv)

MAPREDUCE-3062. Fixed default RMAdmin address. (Chris Riccomini

via acmurthy)

MAPREDUCE-3066. Fixed default ResourceTracker address for the NodeManager.

(Chris Riccomini via acmurthy)

MAPREDUCE-3044. Pipes jobs stuck without making progress. (mahadev)

MAPREDUCE-2754. Fixed MR AM stdout, stderr and syslog to redirect to

correct log-files. (Ravi Teja Ch N V via vinodkv)

MAPREDUCE-3073. Fixed build issues in MR1. (mahadev via acmurthy)

MAPREDUCE-2691. Increase threadpool size for launching containers in

MapReduce ApplicationMaster. (vinodkv via acmurthy)

MAPREDUCE-2990. Fixed display of NodeHealthStatus. (Subroto Sanyal via

acmurthy)

MAPREDUCE-3053. Better diagnostic message for unknown methods in ProtoBuf

RPCs. (vinodkv via acmurthy)

MAPREDUCE-2952. Fixed ResourceManager/MR-client to consume diagnostics

for AM failures in a couple of corner cases. (Arun C Murthy via vinodkv)

MAPREDUCE-3064. 27 unit test failures with Invalid

"mapreduce.jobtracker.address" configuration value for

JobTracker: "local" (Venu Gopala Rao via mahadev)

MAPREDUCE-3090. Fix MR AM to use ApplicationAttemptId rather than

(ApplicationId, startCount) consistently. (acmurthy)

MAPREDUCE-2646. Fixed AMRMProtocol to return containers based on

priority. (Sharad Agarwal and Arun C Murthy via vinodkv)

MAPREDUCE-3031. Proper handling of killed containers to prevent stuck

containers/AMs on an external kill signal. (Siddharth Seth via vinodkv)

MAPREDUCE-2984. Better error message for displaying completed containers.

(Devaraj K via acmurthy)

MAPREDUCE-3071. app master configuration web UI link under the Job menu

opens up application menu. (thomas graves via mahadev)

MAPREDUCE-3067. Ensure exit-code is set correctly for containers. (Hitesh

Shah via acmurthy)

MAPREDUCE-2999. Fix YARN webapp framework to properly filter servlet

paths. (Thomas Graves via vinodkv)

MAPREDUCE-3095. fairscheduler ivy including wrong version for hdfs.

(John George via mahadev)

MAPREDUCE-3054. Unable to kill submitted jobs. (mahadev)

MAPREDUCE-3021. Change base urls for RM web-ui. (Thomas Graves via

acmurthy)

MAPREDUCE-3041. Fixed ClientRMProtocol to provide min/max resource

capabilities along-with new ApplicationId for application submission.

(Hitesh Shah via acmurthy)

MAPREDUCE-2843. Fixed the node-table to be completely displayed and making

node entries on RM UI to be sortable. (Abhijit Suresh Shingate via vinodkv)

MAPREDUCE-3110. Fixed TestRPC failure. (vinodkv)

MAPREDUCE-3078. Ensure MapReduce AM reports progress correctly for

displaying on the RM Web-UI. (vinodkv via acmurthy)

MAPREDUCE-3114. Fixed invalid ApplicationURL on RM WebUI. (Subroto Sanyal

via vinodkv)

MAPREDUCE-2791. Added missing info on 'job -status' output. (Devaraj K via

acmurthy)

MAPREDUCE-2996. Add uber-ness information to JobHistory. (Jonathan Eagles

via acmurthy)

MAPREDUCE-3050. Add ability to get resource usage information for

applications and nodes. (Robert Evans via acmurthy)

MAPREDUCE-3113. Ensure bin/yarn and bin/yarn-daemon.sh identify the root

of the install properly. (Xie Xianshan via acmurthy)

MAPREDUCE-3137. Fix broken merge of MAPREDUCE-2179. (Hitesh Shah via

acmurthy)

MAPREDUCE-2792. Replace usage of node ip-addresses with hostnames.

(vinodkv via acmurthy)

MAPREDUCE-3112. Fixed recursive sourcing of HADOOP\_OPTS environment

variable. (Eric Yang)

MAPREDUCE-3056. Changed the default staging directory to not include

user.name to prevent issues with non-secure mode. (Devaraj K via vinodkv)

MAPREDUCE-2913. Fixed TestMRJobs.testFailingMapper to assert the correct

TaskCompletionEventStatus. (Jonathan Eagles via vinodkv)

MAPREDUCE-2794. [MR-279] Incorrect metrics value for AvailableGB per

queue per user. (John George via mahadev)

MAPREDUCE-2783. Fixing RM web-UI to show no tracking-URL when AM

crashes. (Eric Payne via vinodkv)

MAPREDUCE-3141. Fix the broken MRAppMaster to work over YARN in security

mode.(vinodkv)

MAPREDUCE-2751. Modified NodeManager to stop leaving around local files

after application finishes. (Siddharth Seth via vinodkv)

MAPREDUCE-3033. Ensure Master interface pays attention to classic v/s yarn

frameworks. (Hitesh Shah via acmurthy)

MAPREDUCE-2802. Ensure JobHistory filenames have jobId. (Jonathan Eagles

via acmurthy)

MAPREDUCE-2876. Use a different config for ContainerAllocationExpirer.

(Anupam Seth via acmurthy)

MAPREDUCE-3153. Fix TestFileOutputCommitter which was broken by

MAPREDUCE-2702. (mahadev via acmurthy)

MAPREDUCE-3123. Fix NM to quote symlink names to escape special

characters. (Hitesh Shah via acmurthy)

MAPREDUCE-3154. Fix JobSubmitter to check for output specs before copying

job submission files to fail fast. (Abhijit Suresh Shingate via acmurthy)

MAPREDUCE-3158. Fix test failures in MRv1 due to default framework being

set to yarn. (Hitesh Shah via acmurthy)

MAPREDUCE-3167. container-executor is not being packaged with the assembly

target. (mahadev)

MAPREDUCE-3020. Fixed TaskAttemptImpl to log the correct node-address for

a finished Reduce task. (Chackaravarthy via vinodkv)

MAPREDUCE-2668. Fixed AuxServices to send a signal on application-finish

to all the services. (Thomas Graves via vinodkv)

MAPREDUCE-3126. Fixed a corner case in CapacityScheduler where headroom

wasn't updated on changes to cluster size. (acmurthy)

MAPREDUCE-3140. Fixed the invalid JobHistory URL for failed

applications. (Subroto Sanyal via vinodkv)

MAPREDUCE-3125. Modified TaskImpl to consider only non-failed, non-killed

task-attempts for obtaining task's progress. (Hitesh Shah via vinodkv)

MAPREDUCE-2666. Retrieve shuffle port number from JobHistory on MR AM

restart. (Jonathan Eagles via acmurthy)

MAPREDUCE-2789. Complete schedulingInfo on CLI. (Eric Payne via acmurthy)

MAPREDUCE-3170. Fixed job output commit for deep hierarchies. (Hitesh Shah

via acmurthy)

MAPREDUCE-3124. Fixed location of native libs i.e. libhadoop.so for

containers. (John George via acmurthy)

MAPREDUCE-3057. Job History Server goes of OutOfMemory with 1200 Jobs

and Heap Size set to 10 GB. (Eric Payne via mahadev)

MAPREDUCE-2840. mr279 TestUberAM.testSleepJob test fails. (jonathan eagles

via mahadev)

MAPREDUCE-3190. Ensure bin/yarn fails early with a clear error message

when HADOOP\_COMMON\_HOME or HADOOP\_HDFS\_HOME are not set. (todd & acmurthy

via acmurthy)

MAPREDUCE-3189. Add link decoration back to MR2's CSS. (Todd Lipcon via

mahadev)

MAPREDUCE-3127. Changed default value of yarn.resourcemanager.acl.enable

to true and added some more documentation. (acmurthy)

MAPREDUCE-3032. Fixed TaskAttemptImpl so that JobHistory can have error

information about failed tasks. (Devaraj K via vinodkv)

MAPREDUCE-3196. TestLinuxContainerExecutorWithMocks fails on Mac OSX.

(Arun Murthy via mahadev)

MAPREDUCE-3197. TestMRClientService failing on building clean checkout of

branch 0.23 (mahadev)

MAPREDUCE-2762. Cleanup MR staging directory on completion. (mahadev via

acmurthy)

MAPREDUCE-3165. Ensure logging options are set correctly for MR AM and

tasks. (todd via acmurthy)

MAPREDUCE-3203. Fix some javac warnings in MRAppMaster. (mahadev)

MAPREDUCE-3162. Separated application-init and container-init event types

in NodeManager's Application state machine. (Todd Lipcon via vinodkv)

MAPREDUCE-3176. Fixed ant mapreduce tests that are timing out because

of wrong framework name. (Hitesh Shah via vinodkv)

MAPREDUCE-3181. Fixed MapReduce runtime to load yarn-default.xml and

yarn-site.xml. (acmurthy)

MAPREDUCE-2788. Normalize resource requests in FifoScheduler

appropriately. (Ahmed Radwan via acmurthy)

MAPREDUCE-2693. Fix NPE in job-blacklisting. (Hitesh Shah via acmurthy)

MAPREDUCE-3208. Fix NPE task/container log appenders. (liangzhwa via

acmurthy)

MAPREDUCE-3212. Fix usage/help message for bin/yarn. (Bhallamudi Venkata

Siva Kamesh via acmurthy)

MAPREDUCE-3179. Ensure failed tests exit with right error code. (Jonathan

Eagles via acmurthy)

MAPREDUCE-3188. Ensure correct shutdown in services. (todd via acmurthy)

MAPREDUCE-3226. Fix shutdown of fetcher threads. (vinodkv via acmurthy)

MAPREDUCE-3070. Fix NodeManager to use ephemeral ports by default.

(Devaraj K via acmurthy)

MAPREDUCE-3242. Trunk compilation broken with bad interaction from

MAPREDUCE-3070 and MAPREDUCE-3239. (mahadev)

MAPREDUCE-3058. Fixed MR YarnChild to report failure when task throws an

error and thus prevent a hanging task and job. (vinodkv)

MAPREDUCE-3087. Fixed the mapreduce classpath to correctly include the

generated-classpath file needed for tests. (Ravi Prakash via vinodkv)

MAPREDUCE-3233. Fixed a bug in MR Job so as to be able to restart the

application on AM crash. (Mahadev Konar via vinodkv)

MAPREDUCE-3028. Added job-end notification support. (Ravi Prakash via

acmurthy)

MAPREDUCE-3249. Ensure shuffle-port is correctly used duringMR AM recovery.

(vinodkv via acmurthy)

MAPREDUCE-3252. Fix map tasks to not rewrite data an extra time when

map output fits in spill buffer. (todd)

MAPREDUCE-3159. Ensure DefaultContainerExecutor doesn't delete application

directories during app-init. (todd via acmurthy)

MAPREDUCE-2746. Yarn servers can't communicate with each other with

hadoop.security.authorization set to true (acmurthy via mahadev)

MAPREDUCE-2821. Added missing fields (resourcePerMap & resourcePerReduce)

to JobSummary logs. (mahadev via acmurthy)

MAPREDUCE-3253. Fixed ContextFactory to clone JobContext correctly.

(acmurthy)

MAPREDUCE-3263. Fixed the MAPREDUCE-3028 commit which broke MR1. (Hitesh

Shah via acmurthy)

MAPREDUCE-3269. Fixed log4j properties to correctly set logging options

for JobHistoryServer vis-a-vis JobSummary logs. (mahadev via acmurthy)

MAPREDUCE-3250. When AM restarts, client keeps reconnecting to the new AM

and prints a lots of logs. (vinodkv via mahadev)

MAPREDUCE-3254. Fixed streaming to set the job.jar by using the right

JobConf ctor. (acmurthy)

MAPREDUCE-3264. mapreduce.job.user.name needs to be set automatically.

(acmurthy via mahadev)

MAPREDUCE-3175. Add authorization to admin web-pages such as /stacks, /jmx

etc. (Jonathan Eagles via acmurthy)

MAPREDUCE-3257. Added authorization checks for the protocol between

ResourceManager and ApplicationMaster. (vinodkv via acmurthy)

MAPREDUCE-3259. Added java.library.path of NodeManager to

ContainerLocalizer in LinuxContainerExecutor. (Kihwal Lee via acmurthy)

MAPREDUCE-3279. Fixed TestJobHistoryParsing which assumed user name to be

mapred all the time. (Siddharth Seth via acmurthy)

MAPREDUCE-3240. Fixed NodeManager to be able to forcefully cleanup its

containers (process-trees) irrespective of whether the container succeeded,

or killed. Contributed by Hitesh Shah.

MAPREDUCE-3281. Fixed a bug in TestLinuxContainerExecutorWithMocks. (vinodkv)

MAPREDUCE-3228. Fixed MR AM to timeout RPCs to bad NodeManagers. (vinodkv

via acmurthy)

MAPREDUCE-3284. Moved JobQueueClient to hadoop-mapreduce-client-core.

(acmurthy)

MAPREDUCE-3282. bin/mapred job -list throws exception. (acmurthy via

mahadev)

MAPREDUCE-3186. User jobs are getting hanged if the Resource manager

process goes down and comes up while job is getting executed.

(Eric Payne via mahadev)

MAPREDUCE-3285. Tests on branch-0.23 failing (Siddharth Seth via mahadev)

MAPREDUCE-3258. Fixed AM & JobHistory web-ui to display counters properly.

(Siddharth Seth via acmurthy)

MAPREDUCE-3290. Fixed a NPE in ClientRMService. (acmurthy)

MAPREDUCE-3185. RM Web UI does not sort the columns in some cases.

(Jonathan Eagles via mahadev)

MAPREDUCE-3292. In secure mode job submission fails with Provider

org.apache.hadoop.mapreduce.security.token.JobTokenIndentifier$Renewer

not found. (mahadev)

MAPREDUCE-3296. Fixed the remaining nine FindBugs warnings. (vinodkv)

MAPREDUCE-2775. Fixed ResourceManager and NodeManager to force a

decommissioned node to shutdown. (Devaraj K via vinodkv)

MAPREDUCE-3304. Fixed intermittent test failure due to a race in

TestRMContainerAllocator#testBlackListedNodes. (Ravi Prakash via acmurthy)

MAPREDUCE-3306. Fixed a bug in NodeManager ApplicationImpl that was causing

NodeManager to crash. (vinodkv)

MAPREDUCE-3295. TestAMAuthorization failing on branch 0.23. (vinodkv via mahadev)

MAPREDUCE-3183. hadoop-assemblies/src/main/resources/assemblies/hadoop-mapreduce-dist.xml

missing license header. (Hitesh Shah via tucu).

MAPREDUCE-3003. Publish MR JARs to Maven snapshot repository. (tucu)

MAPREDUCE-3199. Fixed pom files to include correct log4j configuration for

tests. (vinodkv)

MAPREDUCE-3204. mvn site:site fails on MapReduce. (tucu)

MAPREDUCE-3248. Fixed log4j properties. (vinodkv via acmurthy)

MAPREDUCE-3256. Added authorization checks for the protocol between

NodeManager and ApplicationMaster. (vinodkv via acmurthy)

MAPREDUCE-3274. Fixed a race condition in MRAppMaster that was causing a

task-scheduling deadlock. (Robert Joseph Evans via vinodkv)

MAPREDUCE-3171 merge from trunk reverted changes from MAPREDUCE-2747 MAPREDUCE-3240.

MAPREDUCE-3313. Fixed initialization of ClusterMetrics which was failing

TestResourceTrackerService sometimes. (Hitesh Shah via vinodkv)

MAPREDUCE-2766. Fixed NM to set secure permissions for files and directories

in distributed-cache. (Hitesh Shah via vinodkv)

MAPREDUCE-2696. Fixed NodeManager to cleanup logs in a thread when logs'

aggregation is not enabled. (Siddharth Seth via vinodkv)

MAPREDUCE-3262. Fixed Container's state-machine in NodeManager to handle

a couple of events in failure states correctly. (Hitesh Shah and Siddharth

Seth via vinodkv)

MAPREDUCE-3035. Fixed MR JobHistory to ensure rack information is present.

(chakravarthy via acmurthy)

MAPREDUCE-3321. Disabled a few MR tests for 0.23. (Hitesh Shah via

acmurthy)

MAPREDUCE-3220. Fixed TestCombineOutputCollector. (Devaraj K via acmurthy)

MAPREDUCE-3103. Implement Job ACLs for MRAppMaster.

(mahadev)

MAPREDUCE-3241. [Rumen] Fix Rumen to ignore the AMStartedEvent. (amarrk)

MAPREDUCE-3166. [Rumen] Make Rumen use job history api instead of relying

on current history file name format. (Ravi Gummadi via amarrk)

MAPREDUCE-3157. [Rumen] Fix TraceBuilder to handle 0.20 history file

names also. (Ravi Gummadi via amarrk)

MAPREDUCE-3081. Fix vaidya startup script. (gkesavan via suhas).

MAPREDUCE-2764. Fix renewal of dfs delegation tokens. (Owen via jitendra)

MAPREDUCE-3192. Fix Javadoc warning in JobClient.java and Cluster.java.

(jitendra)

MAPREDUCE-3237. Move LocalJobRunner to hadoop-mapreduce-client-core.

(tomwhite via acmurthy)

MAPREDUCE-3316. Rebooted link is not working properly.

(Bhallamudi Venkata Siva Kamesh via mahadev)

MAPREDUCE-3317. Rumen TraceBuilder is emiting null as hostname.

(Ravi Gummadi via mahadev)

MAPREDUCE-3332. contrib/raid compile breaks due to changes in hdfs/protocol/datatransfer/

Sender#writeBlock related to checksum handling (Hitesh Shah via mahadev)

MAPREDUCE-3337. Added missing license headers. (acmurthy)

Release 0.22.1 - Unreleased

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

MAPREDUCE-3837. Job tracker is not able to recover jobs after crash.

(Mayank Bansal via shv)

Release 0.22.0 - 2011-11-29

INCOMPATIBLE CHANGES

MAPREDUCE-1866. Removes deprecated class

org.apache.hadoop.streaming.UTF8ByteArrayUtils. (amareshwari)

MAPREDUCE-1664. Changes the behaviour of the combination of job-acls

when they function together with queue-acls. (Ravi Gummadi via vinodkv)

MAPREDUCE-2994. Fixed a bug in ApplicationID parsing that affects RM

UI. (Devaraj K via vinodkv)

MAPREDUCE-1788. o.a.h.mapreduce.Job shouldn't make a copy of the JobConf.

(Arun Murthy via mahadev)

NEW FEATURES

MAPREDUCE-1804. Stress-test tool for HDFS introduced in HDFS-708.

(Joshua Harlow via shv)

MAPREDUCE-220. Collect cpu and memory statistics per task. (Scott Chen via

acmurthy)

MAPREDUCE-1970. Reed-Solomon code implementation for HDFS RAID.

(Scott Chen via dhruba)

MAPREDUCE-2169. Integrated Reed-Solomon code with RaidNode. (Ramkumar

Vadali via schen)

MAPREDUCE-2936. Contrib Raid compilation broken after HDFS-1620. (vinodkv)

IMPROVEMENTS

MAPREDUCE-2141. Add an "extra data" field to Task for use by Mesos. (matei)

MAPREDUCE-2140. Regenerate fair scheduler design doc PDF. (matei)

MAPREDUCE-1546. Redirect all job pages to corresponding history page

if job is not in JT memory. (Scott Chen via sharad)

MAPREDUCE-1092. Enable assertions for unit tests. (Eli Collins via

cdouglas)

MAPREDUCE-1680. Add a metric recording JobTracker heartbeats processed.

(Dick King via cdouglas)

MAPREDUCE-1761. FairScheduler allows separate configuration of node

and rack locality wait time (Scott Chen via dhruba)

MAPREDUCE-1539. authorization checks for inter-server protocol

(based on HADOOP-6600) (Boris Shkolnik via shv)

MAPREDUCE-1798. Names the configuration keys for the Kerberos

principals better. (Boris Shkolnik via ddas)

MAPREDUCE-1773. streaming doesn't support jobclient.output.filter.

(Amareshwari Sriramadasu via vinodkv)

MAPREDUCE-1785. Add streaming config option for not emitting the key.

(Eli Collins via sharad)

MAPREDUCE-572. If #link is missing from uri format of -cacheArchive

then streaming does not throw error. (Amareshwari Sriramadasu via

vinodkv)

MAPREDUCE-1545. Add timestamps for first task type launched in job summary.

(Luke Lu via cdouglas)

MAPREDUCE-1543. Add an audit log for authentication events. (Amar Kamat and

Luke Lu via cdouglas)

MAPREDUCE-1762. Add ability to set values of task counters. (Scott Chen via

cdouglas)

MAPREDUCE-1533. Reduce overhead of logging and string manipulation during

heartbeat processing. (Amar Kamat and Dick King via cdouglas)

MAPREDUCE-1516. JobTracker issues delegation tokens only if the user's

authentication is Kerberos. (Jitendra Pandey via ddas)

MAPREDUCE-647. Update distcp forrest documentation to reflect the changes

of HADOOP-5472, MAPREDUCE-642 and HADOOP-5620. (Rodrigo Schmidt via

szetszwo)

MAPREDUCE-1851. Documents configuration parameters in streaming.

(amareshwari)

MAPREDUCE-1868. Add a read and connection timeout to JobClient while

pulling tasklogs. (Krishna Ramachandran via acmurthy)

MAPREDUCE-1778. Ensure failure to setup CompletedJobStatusStore is not

silently ignored by the JobTracker. (Krishna Ramachandran via acmurthy)

MAPREDUCE-1850. Includes job submit host information (name and ip) in

jobconf and jobdetails display (Krishna Ramachandran via amareshwari)

MAPREDUCE-1893. Slive with multiple reducers. (shv)

MAPREDUCE-1248. Fixes redudant memory copying in StreamKeyValUtil.

(Ruibang He via amareshwari)

MAPREDUCE-1840. Enhancements to Gridmix benchmark simulating user

diversity, queue replay, and task duration for JobTracker load testing.

Also includes compatibility with security enhancements, and scalability

improvements. (Amar Kamat, Rahul Singh, Hong Tang, and cdouglas)

MAPREDUCE-1848. Put number of speculative, data local, rack local

tasks in JobTracker metrics. (Scott Chen via dhruba)

MAPREDUCE-1935. Makes the Distcp to work in a secure environment.

(Boris Shkolnik via ddas)

MAPREDUCE-1945. The MapReduce component for HADOOP-6632.

(Kan Zhang & Jitendra Pandey via ddas)

MAPREDUCE-1936. Modify Gridmix3 to support more tunable parameters for

stress submission and sleep jobs. (Hong Tang via cdouglas)

MAPREDUCE-1733. Makes pipes applications secure. (Jitendra Pandey via ddas)

MAPREDUCE-1566. Adds a configuration attribute using which job clients can

specify a credentials file. The tokens from there will be passed to the job.

(Jitendra Pandey and Owen O'Malley via ddas)

MAPREDUCE-1624. Documents the job credentials and associated details to do

with delegation tokens (on the client side).

(Jitendra Pandey and Devaraj Das via ddas)

MAPREDUCE-1834. TestSimulatorDeterministicReplay timesout on trunk.

(Hong Tang via mahadev)

MAPREDUCE-1993. Fixes test failure

TestTrackerDistributedCacheManagerWithLinuxTaskController. (Devaraj Das

via amareshwari)

MAPREDUCE-1523. Making Mumak work with Capacity-Scheduler (Anirban Das

via mahadev)

MAPREDUCE-1920. Enables completed jobstatus store by default. (Tom White

via amareshwari)

MAPREDUCE-1881. Improve TaskTrackerInstrumentation to enable collection of

advanced metrics. (Matei Zaharia via acmurthy)

MAPREDUCE-1548. Hadoop archives preserve times and other properties from

original files. (Rodrigo Schmidt via dhruba)

MAPREDUCE-1517. Supports streaming job to run in the background. (Bochun Bai

via amareshwari)

MAPREDUCE-1819. RaidNode is now smarter in submitting Raid jobs. (Ramkumar

Vadali via schen)

MAPREDUCE-2132. A command line option in RaidShell to fix blocks using raid

MAPREDUCE-2147. Remove redundant lines in JobInProgress ctor.

(Harsh J Chouraria via cutting)

HADOOP-7007. Update the hudson-test-patch ant target to work with the

latest test-patch.sh script (gkesavan)

MAPREDUCE-1818. RaidNode can specify scheduling parameters. (Ramkumar

Vadali via schen)

MAPREDUCE-2051. Contribute a fair scheduler preemption system test.

(Todd Lipcon via tomwhite)

MAPREDUCE-1892. RaidNode can allow layered policies more efficiently.

(Ramkumar Vadali via schen)

MAPREDUCE-1592. Generate Eclipse's .classpath file from Ivy config.

(tomwhite via nigel)

MAPREDUCE-2073. TestTrackerDistributedCacheManager should be up-front

about requirements on build environment. (Todd Lipcon via tomwhite)

MAPREDUCE-2093. Herriot JT and TT clients should vend statistics. (cos)

MAPREDUCE-2167. Faster directory traversal for raid node. (Ramkumar Vadali

via schen)

MAPREDUCE-1931. Gridmix forrest documentation . (Ranjit Mathew via vinodkv).

MAPREDUCE-2184. Port DistRaid.java to new mapreduce API. (Ramkumar Vadali

via schen)

MAPREDUCE-1878. Add MRUnit documentation. (Aaron Kimball via tomwhite)

MAPREDUCE-2180. Add coverage of fair scheduler servlet to system test (todd)

MAPREDUCE-2250. Fix logging in raid code. (Ramkumar Vadali via schen)

MAPREDUCE-2260. Remove auto-generated native build files. (rvs via eli)

MAPREDUCE-2314. configure files that are generated as part of the released

tarball need to have executable bit set (rvs via cos)

MAPREDUCE-1159. Limit Job name in web UI to be 80 char long. (Harsh J

Chouraria via szetszwo)

MAPREDUCE-2337. Remove dependence of public MapReduce API on classes in

server package. (tomwhite)

MAPREDUCE-2383. Improve documentation of DistributedCache methods (Harsh J

Chouraria via todd)

MAPREDUCE-2222. Ivy resolve force mode should be turned off by default.

(Luke Lu via tomwhite)

MAPREDUCE-2103. task-controller shouldn't require o-r permissions.

(todd via eli)

MAPREDUCE-2505. Explain how to use ACLs in the fair scheduler.

(matei via eli)

MAPREDUCE-3138. Add a utility to help applications bridge changes in

Context Objects APIs due to MAPREDUCE-954. (omalley via acmurthy)

OPTIMIZATIONS

MAPREDUCE-1354. Enhancements to JobTracker for better performance and

scalability. (Arun C. Murthy & Richard King via acmurthy)

MAPREDUCE-1829. JobInProgress.findSpeculativeTask should use min() to

find the candidate instead of sort(). (Scott Chen via vinodkv)

BUG FIXES

MAPREDUCE-1845. FairScheduler.tasksToPreempt() can return negative number.

(Scott Chen via matei)

MAPREDUCE-1707. TaskRunner can get NPE in getting ugi from TaskTracker.

(Vinod Kumar Vavilapalli)

MAPREDUCE-1532. Ensures that delegation tokens is obtained as the

actual user when the proxy-user is used for submitting jobs. Also

refactors the DelegationTokenToRenew class. (ddas)

MAPREDUCE-1558. Fixes MRAdmin to look up the principal of the

JobTracker and use that in the RefreshUserToGroupsMapping protocol and

RefreshAuthorizationPolicyProtocol. (Boris Shkolnik via ddas)

MAPREDUCE-1662. Remove unused methods from TaskRunner. (Amareshwari

Sriramadasu via cdouglas)

MAPREDUCE-1617. Use IPv4 stack for unit tests. (Amar Kamat and Luke Lu via

cdouglas)

MAPREDUCE-1599. Fixes MRBench so that it reuses tokens across jobs

correctly. (Jitendra Nath Pandey via ddas)

MAPREDUCE-1836. Refresh for proxy superuser config (mr part for HDFS-1096).

(Boris Shkolnik via shv)

MAPREDUCE-1505. Create RPC client on job submission, not in cstr of Job

instance. (Dick King via cdouglas)

MAPREDUCE-1813. NPE in PipeMapred.MRErrorThread. (Ravi Gummadi via vinodkv)

MAPREDUCE-1225. Fixes DistributedCache to check if the file is fresh or not,

for the first localization also. (Zhong Wang via amareshwari)

MAPREDUCE-1559. Fixes the token renewer to use the JobTracker's

credentials for talking to the NameNode. (ddas)

MAPREDUCE-1492. Delete obsolete har files used on the parity files

of hdfs raid. (Rodrigo Schmidt via dhruba)

MAPREDUCE-1857. Removes unused configuration parameters in streaming.

(amareshwari)

MAPREDUCE-1887. MRAsyncDiskService now properly absolutizes volume root

paths. (Aaron Kimball via zshao)

MAPREDUCE-1863. Fix NPE in Rumen when processing null CDF for failed task

attempts. (Amar Kamat via cdouglas)

MAPREDUCE-1864. Removes uninitialized/unused variables in

org.apache.hadoop.streaming.PipeMapRed. (amareshwari)

MAPREDUCE-1888. Fixes Streaming to override output key and value types,

only if mapper/reducer is a command. (Ravi Gummadi via amareshwari)

MAPREDUCE-577. Fixes duplicate records in StreamXmlRecordReader.

(Ravi Gummadi via amareshwari)

MAPREDUCE-1894. Fixed a bug in DistributedRaidFileSystem.readFully()

that was causing it to loop infinitely. (Ramkumar Vadali via dhruba)

MAPREDUCE-1838. Reduce the time needed for raiding a bunch of files

by randomly assigning files to map tasks. (Ramkumar Vadali via dhruba)

MAPREDUCE-1820. Fix InputSampler to clone sampled keys. (Alex Kozlov via

cdouglas)

MAPREDUCE-1528. Incorporates the changes to the credentials API done in

HADOOP-6845. Also, introduces Credentials in JobConf, and in JobContext.

(Jitendra Pandey and Arun Murthy via ddas)

MAPREDUCE-1865. Rumen should also support jobhistory files generated using

trunk. (Amar Kamat via amareshwari)

MAPREDUCE-1621. Fixes NPE in TextOutputReader.getLastOutput if it has never

read any output. (amareshwari)

MAPREDUCE-1911. Fixes errors in -info message in streaming. (amareshwari)

MAPREDUCE-1772. Corrects errors in streaming documentation in forrest.

(amareshwari)

MAPREDUCE-1925. Fix failing TestRumenJobTraces. (Ravi Gummadi via cdouglas)

MAPREDUCE-1718. Fixes a bug in the construction of jobconf key for the

mapping that the tasks use at runtime for looking up delegation tokens.

(Boris Shkolnik via ddas)

MAPREDUCE-1701. Fixes a problem to do with exception handling in

delegation-token renewals. (Boris Shkolnik via ddas)

MAPREDUCE-1686. Fixes StreamUtil.goodClassOrNull to find classes without

package names. (Paul Burkhardt via amareshwari)

MAPREDUCE-1288. Fixes TrackerDistributedCacheManager to take into account

the owner of the localized file in the mapping from cache URIs to

CacheStatus objects. (ddas)

MAPREDUCE-1982. Fixes Rumen's TraceBuilder to extract job name from either

of configuration properties "mapreduce.job.name" and "mapred.job.name".

(Ravi Gummadi via amareshwari)

MAPREDUCE-1958. The MapReduce part corresponding to the HADOOP-6873.

(Boris Shkolnik & Owen O'Malley via ddas)

MAPREDUCE-1900. TaskTracker and JobTracker closes FileSystems, opened on

behalf of users that it no longer requires. (Kan Zhang and ddas via ddas)

MAPREDUCE-1992. Fixes a problem to do with bringing up the JobTracker in

unsecure mode. (Kan Zhang via ddas)

MAPREDUCE-1999. Fixes ClientProtocol to use the correct

DelegationTokenSelector. (Jitendra Pandey via ddas)

MAPREDUCE-1780. AccessControlList.toString() is used for serialization of

ACL in JobStatus.java. (Ravi Gummadi via vinodkv)

MAPREDUCE-1961. Fix ConcurrentModificationException in Gridmix during

shutdown. (Hong Tang via cdouglas)

MAPREDUCE-2000. Fix parsing of JobHistory lines in Rumen when quotes are

escaped. (Hong Tang via cdouglas)

MAPREDUCE-2022. Fixes compilation errors in TestSubmitJob. (amareshwari)

MAPREDUCE-1670. RAID policies should not scan their own destination path.

(Ramkumar Vadali via dhruba)

MAPREDUCE-1668. RaidNode Hars a directory only if all its parity files

have been created. (Ramkumar Vadali via dhruba)

MAPREDUCE-2021. Fixes duplicate hostnames in CombineFileInputFormat's

split locations. (amareshwari)

MAPREDUCE-1375. Fixes flaky test TestFileArgs. (Todd Lipcon via

amareshwari)

MAPREDUCE-2023. TestDFSIO should not stop reading if curSize != bufferSize.

(Hong Tang via szetszwo)

MAPREDUCE-2031. Fixes test failures TestTaskLauncher and

TestTaskTrackerLocalization. (Ravi Gummadi via amareshwari)

MAPREDUCE-2046. Fixes CombineFileInputFormat to allow splits with size

less than DFS block size. (dhruba borthakur via amareshwari)

MAPREDUCE-1975. Fixes unnecessary InterruptedException log in gridmix.

(Ravi Gummadi via amareshwari)

MAPREDUCE-1597. Fixes CombineFileInputFormat to work with non-splittable

files. (amareshwari)

MAPREDUCE-2032. Fixes TestJobCleanup to cleanup test directory in

tearDown. (Dick King via amareshwari)

MAPREDUCE-1979. Fixes "Output directory already exists" error in gridmix

when gridmix.output.directory is not defined. (Ravi Gummadi via

amareshwari)

MAPREDUCE-1918. Adds documentation to Rumen. (Amar Kamat via amareshwari)

MAPREDUCE-2078. Fixes TraceBuilder to generate traces when a globbed job

history path is given. (Amar Kamat via amareshwari)

MAPREDUCE-1989. Fixes error message in gridmix when user resolver is set

and no user list is given. (Ravi Gummadi via amareshwari)

MAPREDUCE-2067. Distinct minicluster services (e.g. NN and JT) overwrite

each other's service policies. (Aaron T. Myers via tomwhite)

MAPREDUCE-2029. DistributedRaidFileSystem removes itself from FileSystem

cache when it is closed. (Ramkumar Vadali via dhruba)

MAPREDUCE-1816. HAR files used for RAID parity-bite have configurable

partfile size. (Ramkumar Vadali via dhruba)

MAPREDUCE-2082. Fixes Pipes to create the jobtoken file in the right

place. (Jitendra Pandey via ddas)

MAPREDUCE-2095. Fixes Gridmix to run from compressed traces. (Ranjit

Mathew via amareshwari)

MAPREDUCE-1908. DistributedRaidFileSystem now handles ChecksumException

correctly. (Ramkumar Vadali via schen)

MAPREDUCE-2126. JobQueueJobInProgressListener's javadoc is inconsistent

with source code. (Jingguo Yao via tomwhite)

MAPREDUCE-2143. HarFileSystem is able to handle spaces in pathnames.

(Ramkumar Vadali via dhruba)

MAPREDUCE-1867. Remove unused methods in

org.apache.hadoop.streaming.StreamUtil. (amareshwari via tomwhite)

MAPREDUCE-2146. Raid does not affect access time of a source file.

(Ramkumar Vadali via dhruba)

MAPREDUCE-2150. RaidNode periodically fixes corrupt blocks. (Ramkumar Vadali via

schen)

MAPREDUCE-2099. RaidNode recreates outdated parity HARs. (Ramkumar Vadali

via schen)

MAPREDUCE-2173. Fix race condition in TestBlockFixer that was

causing intermittent failure (Patrick Kling via dhruba)

MAPREDUCE-2142. Refactor RaidNode so that the map-reduce component is

clearly separated out. (Patrick Kling via dhruba)

MAPREDUCE-2179. Fix RaidBlockSender compilation failure. (Ramkumar Vadali

via schen)

MAPREDUCE-2034. TestSubmitJob triggers NPE instead of permissions error.

(Todd Lipcon via tomwhite)

MAPREDUCE-2195. New property for local conf directory in

system-test-mapreduce.xml file. (cos)

MAPREDUCE-1783. FairScheduler initializes tasks only when the job can be

run. (Ramkumar Vadali via schen)

MAPREDUCE-2224. Fix synchronization bugs in JvmManager. (todd)

MAPREDUCE-714. JobConf.findContainingJar unescapes unnecessarily on linux (todd)

MAPREDUCE-2096. Secure local filesystem IO from symlink vulnerabilities (todd)

MAPREDUCE-2234. If Localizer can't create task log directory, it should fail

on the spot. (todd)

MAPREDUCE-2219. JobTracker should not try to remove mapred.system.dir

during startup. (todd)

MAPREDUCE-2207. Task-cleanup task should not be scheduled on the node that

the task just failed. (Liyin Liang via schen)

MAPREDUCE-2084. Remove deprecate annotation for package file. The package

classes themselves are already deprecated. This removes an Eclipse error.

(tomwhite via nigel)

MAPREDUCE-2248. DistributedRaidFileSystem should unraid only the corrupt

block (Ramkumar Vadali via schen)

MAPREDUCE-1085. For tasks, "ulimit -v -1" is being run when user doesn't

specify a ulimit (todd)

MAPREDUCE-2282. Fix TestMRServerPorts for the changes in

TestHDFSServerPorts. (shv via szetszwo)

MAPREDUCE-2238. Fix permissions handling to avoid leaving undeletable

directories in local dirs. (todd)

MAPREDUCE-2277. TestCapacitySchedulerWithJobTracker needs to wait for jobs

to complete before testing status. (todd)

MAPREDUCE-2253. Servlets should specify content type (todd)

MAPREDUCE-2283. Add timeout for Raid Tests (Ramkumar Vadali via schen)

MAPREDUCE-1754. Replace mapred.persmissions.supergroup with an

acl : mapreduce.cluster.administrators (Amareshwari Sriramadasu via shv)

MAPREDUCE-2256. FairScheduler fairshare preemption from multiple pools may

preempt all tasks from one pool causing that pool to go below fairshare.

(Priyo Mustafi via shv)

MAPREDUCE-2281. MR part of HADOOP-6642. (Chris Douglas, Po Cheung via shv)

MAPREDUCE-2200. TestUmbilicalProtocolWithJobToken is failing without Krb

evironment: needs to be conditional. (cos)

MAPREDUCE-2077. Resolve name clash in the deprecated

o.a.h.util.MemoryCalculatorPlugin (Luke Lu via shv)

MAPREDUCE-2188. The new API MultithreadedMapper doesn't initialize

RecordReader. (Owen O'Malley via shv)

MAPREDUCE-1915. Fix IndexOutOfBoundsException in IndexCache.

(Priyo Mustafi via shv)

MAPREDUCE-1974. Fix multiple preemtions of the same task in FairScheduler.

(Scott Chen via shv)

MAPREDUCE-2304. Fix TestMRCLI to allow hostname with a hyphen (-).

(Priyo Mustafi via shv)

MAPREDUCE-1825. jobqueue\_details.jsp and FairSchedulerServelet should not

call finishedMaps and finishedReduces when job is not initialized.

(Scott Chen via shv)

MAPREDUCE-2285. MiniMRCluster does not start after ant test-patch

(todd)

MAPREDUCE-2315. javadoc is failing in nightly build (todd)

MAPREDUCE-2054. Hierarchical queue implementation broke dynamic queue

addition in Dynamic Scheduler. (Thomas Sandholm via tomwhite)

MAPREDUCE-2272. Job ACL file should not be executable

(Harsh J Chouraria via todd)

MAPREDUCE-2241. ClusterWithLinuxTaskController should accept relative path

on the command line. (todd)

MAPREDUCE-2251. Remove unused mapreduce.job.userhistorylocation config.

(Harsh J Chouraria via todd)

MAPREDUCE-2284. TestLocalRunner.testMultiMaps times out (todd)

MAPREDUCE-2336. Tool-related packages should be in the Tool javadoc group.

(tomwhite)

MAPREDUCE-2394. JUnit output format doesn't propagate into raid contrib

build. (todd)

MAPREDUCE-2392. TaskTracker shutdown in the tests sometimes take 60s.

(tomwhite)

MAPREDUCE-2437. SLive uses only part\* files to generating the final report.

(shv)

MAPREDUCE-2428. start-mapred.sh script fails if HADOOP\_HOME is not set.

(tomwhite via eli)

MAPREDUCE-2445. Fix TestMiniMRWithDFSWithDistinctUsers to be a valid test.

(todd)

MAPREDUCE-2457. Job submission should inject group.name on the JobTracker

(Alejandro Abdelnur via todd)

MAPREDUCE-2472. Extra whitespace in mapred.child.java.opts breaks JVM

initialization. (Aaron T. Myers via todd)

MAPREDUCE-2222. Ivy resolve force mode should be turned off by default.

(Luke Lu via tomwhite)

MAPREDUCE-2486. Incorrect snapshot dependency published in .pom files

(todd)

MAPREDUCE-2327. MapTask doesn't need to put username information in

SpillRecord. (todd via tomwhite)

MAPREDUCE-2515. MapReduce code references some deprecated options

(Ari Rabkin via todd)

MAPREDUCE-2487. ChainReducer uses MAPPER\_BY\_VALUE instead of

REDUCER\_BY\_VALUE. (Devaraj K via todd)

MAPREDUCE-2185. Fix infinite loop at creating splits using

CombineFileInputFormat. (Ramkumar Vadali via schen)

MAPREDUCE-2571. CombineFileInputFormat.getSplits throws a

java.lang.ArrayStoreException. (Bochun Bai via todd)

MAPREDUCE-2767. Remove Linux task-controller. (Milind Bhandarkar via shv)

MAPREDUCE-2991. queueinfo.jsp fails to show queue status for Capacity

scheduler if queue names contain special symbols. (Priyo Mustafi via shv)

MAPREDUCE-2531. Fixed jobcontrol to downgrade JobID. (Robert Evans via

acmurthy)

MAPREDUCE-3139. SlivePartitioner generates negative partitions. (jghoman)

Release 0.21.1 - Unreleased

NEW FEATURES

MAPREDUCE-2040. Forrest Documentation for Dynamic Priority Scheduler.

(Thomas Sandholm via tomwhite)

BUG FIXES

MAPREDUCE-1897. trunk build broken on compile-mapred-test (cos)

MAPREDUCE-1280. Update Eclipse plugin to the new eclipse.jdt API.

(Alex Kozlov via szetszwo)

MAPREDUCE-1984. herriot TestCluster fails because exclusion is not there

(Balaji Rajagopalan via cos)

MAPREDUCE-2090. Clover build doesn't generate per-test coverage. (cos)

MAPREDUCE-2134. ant binary-system is broken in mapreduce project. (cos)

MAPREDUCE-1905. Fixes Context.setStatus() and progress() apis.

(amareshwari)

MAPREDUCE-1809. Ant build changes for Streaming system tests in contrib

projects. (Vinay Kumar Thota via amareshwari)

MAPREDUCE-2223. TestMRCLI might fail on Ubuntu with default /etc/hosts

(cos)

MAPREDUCE-2228. Remove java5 dependencies from build. (cos)

MAPREDUCE-1929. Allow artifacts to be published to the staging Apache Nexus

Maven Repository. (tomwhite)

MAPREDUCE-2317. Fix a NPE in HadoopArchives. (Devaraj K via szetszwo)

MAPREDUCE-2127. mapreduce trunk builds are filing on hudson.

(Bruno Mahé via eli)

MAPREDUCE-2779. JobSplitWriter.java can't handle large job.split file.

(Ming Ma via shv)

Release 0.21.0 - 2010-08-13

INCOMPATIBLE CHANGES

MAPREDUCE-516. Fix the starvation problem in the Capacity Scheduler

when running High RAM Jobs. (Arun Murthy via yhemanth)

MAPREDUCE-358. Change org.apache.hadoop.examples. AggregateWordCount

and org.apache.hadoop.examples.AggregateWordHistogram to use new

mapreduce api. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-245. Change Job and jobcontrol classes to use the List interface

rather than ArrayList in APIs. (Tom White via cdouglas)

MAPREDUCE-766. Enhanced list-blacklisted-trackers to display reasons

for blacklisting a node. (Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-817. Add a cache for retired jobs with minimal job info and

provide a way to access history file url. (sharad)

MAPREDUCE-711. Moved Distributed Cache from Common to Map/Reduce

project. (Vinod Kumar Vavilapalli via yhemanth)

MAPREDUCE-895. Per the contract elucidated in HADOOP-6201, throw

FileNotFoundException from FileSystem::listStatus rather than returning

null. (Jakob Homan via cdouglas)

MAPREDUCE-479. Provide full task id to map output servlet rather than the

reduce id, only. (Jiaqi Tan via cdouglas)

MAPREDUCE-873. Simplify job recovery. Incomplete jobs are resubmitted on

jobtracker restart. Removes a public constructor in JobInProgress. (sharad)

HADOOP-6230. Moved process tree and memory calculator related classes from

Common to Map/Reduce. (Vinod Kumar Vavilapalli via yhemanth)

MAPREDUCE-157. Refactor job history APIs and change the history format to

JSON. (Jothi Padmanabhan via sharad)

MAPREDUCE-849. Rename configuration properties. (Amareshwari Sriramadasu

via sharad)

MAPREDUCE-1287. Only call the partitioner with more than one reducer.

(cdouglas)

MAPREDUCE-1385. Use the new UserGroupInformation from HADOOP-6299.

(ddas via omalley)

MAPREDUCE-1493. Authorization for job-history pages. (vinodkv)

MAPREDUCE-1607. Task controller may not set permissions for a

task cleanup attempt's log directory (Amareshwari Sriramadasu via vinodkv)

MAPREDUCE-1683. Remove JNI calls from ClusterStatus cstr. (Arun Murthy and

Luke Lu via cdouglas)

MAPREDUCE-1855. Makes the refresh methods (for groups and proxy users)

independent of the client side configuration. (Boris Shkolnik via ddas)

NEW FEATURES

MAPREDUCE-1774. Large-scale Automated Framework (Sharad Agarwal, Sreekanth

Ramakrishnan, Konstantin Boudnik, at all via cos)

MAPREDUCE-706. Support for FIFO pools in the fair scheduler.

(Matei Zaharia)

MAPREDUCE-546. Provide sample fair scheduler config file in conf/ and use

it by default if no other config file is specified. (Matei Zaharia)

MAPREDUCE-551. Preemption support in the Fair Scheduler. (Matei Zaharia)

MAPREDUCE-567. Add a new example MR that always fails. (Philip Zeyliger

via tomwhite)

MAPREDUCE-211. Provides ability to run a health check script on the

tasktracker nodes and blacklist nodes if they are unhealthy.

(Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-637. Add an example, distbbp, which able to compute the n th bit

of Pi for some large n. (szetszwo)

MAPREDUCE-532. Provide a way to limit the number of used slots

per queue in the capacity scheduler.

(Rahul Kumar Singh via yhemanth)

MAPREDUCE-467. Provide ability to collect statistics about total tasks

and succeeded tasks in different time windows. (sharad)

MAPREDUCE-740. Log a job-summary at the end of a job, while allowing it

to be configured to use a custom appender if desired. (acmurthy)

MAPREDUCE-814. Provide a way to configure completed job history files

to be on HDFS. (sharad)

MAPREDUCE-800. MRUnit should support the new API. (Aaron Kimball via

tomwhite)

MAPREDUCE-798. MRUnit should be able to test a succession of MapReduce

passes. (Aaron Kimball via tomwhite)

MAPREDUCE-768. Provide an option to dump jobtracker configuration in JSON

format to standard output. (V.V.Chaitanya Krishna via yhemanth)

MAPREDUCE-824. Add support for a hierarchy of queues in the capacity

scheduler. (Rahul Kumar Singh via yhemanth)

MAPREDUCE-751. Add Rumen, a tool for extracting statistics from job tracker

logs and generating job traces for simulation and analysis. (Dick King via

cdouglas)

MAPREDUCE-830. Add support for splittable compression to TextInputFormats.

(Abdul Qadeer via cdouglas)

MAPREDUCE-861. Add support for hierarchical queues in the Map/Reduce

framework. (Rahul Kumar Singh via yhemanth)

MAPREDUCE-776. Add Gridmix, a benchmark processing Rumen traces to simulate

a measured mix of jobs on a cluster. (cdouglas)

MAPREDUCE-862. Enhance JobTracker UI to display hierarchical queues.

(V.V.Chaitanya Krishna via yhemanth)

MAPREDUCE-777. Brand new apis to track and query jobs as a

replacement for JobClient. (Amareshwari Sriramadasu via acmurthy)

MAPREDUCE-775. Add native and streaming support for Vertica as an input

or output format taking advantage of parallel read and write properties of

the DBMS. (Omer Trajman via ddas)

MAPREDUCE-679. XML-based metrics as JSP servlet for JobTracker.

(Aaron Kimball via tomwhite)

MAPREDUCE-980. Modify JobHistory to use Avro for serialization. (cutting)

MAPREDUCE-728. Add Mumak, a Hadoop map/reduce simulator. (Arun C Murthy,

Tamas Sarlos, Anirban Dasgupta, Guanying Wang, and Hong Tang via cdouglas)

MAPREDUCE-1383. Automates fetching of delegation tokens in File\*Formats

Distributed Cache and Distcp. Also, provides a config

mapreduce.job.hdfs-servers that the jobs can populate with a comma

separated list of namenodes. The job client automatically fetches

delegation tokens from those namenodes. (Boris Shkolnik via ddas)

MAPREDUCE-698. Per-pool task limits for the fair scheduler.

(Kevin Peterson via matei)

MAPREDUCE-1026. Does mutual authentication of the shuffle

transfers using a shared JobTracker generated key.

(Boris Shkolnik via ddas)

MAPREDUCE-744. Introduces the notion of a public distributed cache.

(Devaraj Das)

MAPREDUCE-1338. Introduces the notion of token cache using which

tokens and secrets can be sent by the Job client to the JobTracker.

(Boris Shkolnik via ddas)

HDFS-503. This patch implements an optional layer over HDFS that

implements offline erasure-coding. It can be used to reduce the

total storage requirements of HDFS. (dhruba)

MAPREDUCE-1432. Adds hooks in the jobtracker and tasktracker

for loading the tokens in the user's ugi. This is required

for the copying of files from the hdfs. (ddas)

MAPREDUCE-1335. Adds SASL Kerberos/Digest authentication in MapReduce.

(Kan Zhang via ddas)

MAPREDUCE-1464. Makes a compatible change in JobTokenIdentifier to

account for HADOOP-6510. (Jitendra Nath Pandey via ddas)

MAPREDUCE-1433. Add a delegation token for MapReduce. (omalley)

MAPREDUCE-1307. Introduces the Job level ACLs feature.

(Vinod Kumar Vavilapalli via ddas)

MAPREDUCE-1430. JobTracker automatically renews delegation tokens for jobs.

(Boris Shkolnik via ddas)

MAPREDUCE-1455. Introduces job-level authorization for mapreduce servlets.

(Ravi Gummadi via vinodkv)

IMPROVEMENTS

MAPREDUCE-463. Makes job setup and cleanup tasks as optional.

(Amareshwari Sriramadasu via sharad)

MAPREDUCE-502. Allow jobtracker to be configured with zero completed jobs

in memory. (Amar Kamat via sharad)

MAPREDUCE-416. Moves the history file to a "done" folder whenever a job

completes. (Amar Kamat via ddas)

MAPREDUCE-646. Increase srcfilelist replication number in dictcp job.

(Ravi Gummadi via szetszwo)

HADOOP-6106. Updated hadoop-core and test jars from hudson trunk

build #12. (Giridharan Kesavan)

MAPREDUCE-642. A option to distcp that allows preserving the full

source path of a file in the specified destination directory.

(Rodrigo Schmidt via dhruba)

MAPREDUCE-686. Move TestSpeculativeExecution.Fake\* into a separate class

so that it can be used by other tests. (Jothi Padmanabhan via sharad)

MAPREDUCE-625. Modify TestTaskLimits to improve execution time.

(Jothi Padmanabhan via sharad)

MAPREDUCE-465. Deprecate o.a.h.mapred.lib.MultithreadedMapRunner and add

test for o.a.h.mapreduce.lib.MultithreadedMapper.

(Amareshwari Sriramadasu via sharad)

MAPREDUCE-701. Improves the runtime of the TestRackAwareTaskPlacement

by making it a unit test. (Jothi Padmanabhan via ddas)

MAPREDUCE-371. Change KeyFieldBasedComparator and KeyFieldBasedPartitioner

to use new api. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-623. Resolve javac warnings in mapreduce. (Jothi Padmanabhan

via sharad)

MAPREDUCE-655. Change KeyValueLineRecordReader and KeyValueTextInputFormat

to use new mapreduce api. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-632. Merge TestCustomOutputCommitter with

TestCommandLineJobSubmission. (Jothi Padmanabhan via sharad)

MAPREDUCE-627. Improves execution time of TestTrackerBlacklistAcrossJobs.

(Jothi Padmanabhan via ddas)

MAPREDUCE-630. Improves execution time of TestKillCompletedJob.

(Jothi Padmanabhan via ddas)

MAPREDUCE-626. Improves the execution time of TestLostTracker.

(Jothi Padmanabhan via ddas)

MAPREDUCE-353. Makes the shuffle read and connection timeouts

configurable. (Ravi Gummadi via ddas)

MAPREDUCE-739. Allow relative paths to be created in archives. (Mahadev

Konar via cdouglas)

MAPREDUCE-772. Merge HADOOP-4010 changes to LineRecordReader into mapreduce

package. (Abdul Qadeer via cdouglas)

MAPREDUCE-785. Separate sub-test of TestReduceFetch to be included in

MR-670. (Jothi Padmanabhan via cdouglas)

MAPREDUCE-784. Modify TestUserDefinedCounters to use LocalJobRunner

instead of MiniMR. (Jothi Padmanabhan via sharad)

HADOOP-6160. Fix releaseaudit target to run on specific directories.

(gkesavan)

MAPREDUCE-782. Use PureJavaCrc32 in SpillRecord. (Todd Lipcon via

szetszwo)

MAPREDUCE-369. Change org.apache.hadoop.mapred.lib.MultipleInputs to

use new api. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-373. Change org.apache.hadoop.mapred.lib.FieldSelectionMapReduce

to use new api. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-628. Improves the execution time of TestJobInProgress.

(Jothi Padmanabhan via ddas)

MAPREDUCE-793. Creates a new test that consolidates a few tests to

include in the commit-test list. (Jothi Padmanabhan via ddas)

MAPREDUCE-797. Adds combiner support to MRUnit MapReduceDriver.

(Aaron Kimball via johan)

MAPREDUCE-656. Change org.apache.hadoop.mapred.SequenceFile\* classes

to use new mapreduce api. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-670. Creates ant target for 10 mins patch test build.

(Jothi Padmanabhan via gkesavan)

MAPREDUCE-375. Change org.apache.hadoop.mapred.lib.NLineInputFormat

and org.apache.hadoop.mapred.MapFileOutputFormat to use new api.

(Amareshwari Sriramadasu via ddas)

MAPREDUCE-779. Added node health failure counts into

JobTrackerStatistics. (Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-842. Setup secure permissions for localized job files,

intermediate outputs and log files on tasktrackers.

(Vinod Kumar Vavilapalli via yhemanth)

MAPREDUCE-478. Allow map and reduce jvm parameters, environment variables

and ulimit to be set separately.

Configuration changes:

add mapred.map.child.java.opts

add mapred.reduce.child.java.opts

add mapred.map.child.env

add mapred.reduce.child.ulimit

add mapred.map.child.env

add mapred.reduce.child.ulimit

deprecated mapred.child.java.opts

deprecated mapred.child.env

deprecated mapred.child.ulimit

(acmurthy)

MAPREDUCE-767. Remove the dependence on the CLI 2.0 snapshot.

(Amar Kamat via omalley)

MAPREDUCE-712. Minor efficiency tweaks to RandomTextWriter. (cdouglas)

MAPREDUCE-870. Remove the job retire thread and the associated

config parameters. (sharad)

MAPREDUCE-874. Rename the PiEstimator example to QuasiMonteCarlo.

(szetszwo)

MAPREDUCE-336. Allow logging level of map/reduce tasks to be configurable.

Configuration changes:

add mapred.map.child.log.level

add mapred.reduce.child.log.level

(acmurthy)

MAPREDUCE-355. Update mapred.join package to use the new API. (Amareshwari

Sriramadasu via cdouglas)

HADOOP-6184. Updated hadoop common and test jars to get the new API

in Configuration for dumping in JSON format from Hudson trunk build #68.

(yhemanth)

MAPREDUCE-476. Extend DistributedCache to work locally (LocalJobRunner).

(Philip Zeyliger via tomwhite)

MAPREDUCE-825. JobClient completion poll interval of 5s causes slow tests

in local mode. (Aaron Kimball via tomwhite)

MAPREDUCE-910. Support counters in MRUnit. (Aaron Kimball via cdouglas)

MAPREDUCE-788. Update gridmix2 to use the new API (Amareshwari Sriramadasu

via cdouglas)

MAPREDUCE-875. Make DBRecordReader execute queries lazily. (Aaron Kimball

via enis)

MAPREDUCE-318. Modularizes the shuffle code. (Jothi Padmanabhan and

Arun Murthy via ddas)

MAPREDUCE-936. Allow a load difference for fairshare scheduler.

(Zheng Shao via dhruba)

MAPREDUCE-370. Update MultipleOutputs to use the API, merge funcitonality

of MultipleOutputFormat. (Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-898. Changes DistributedCache to use the new API.

(Amareshwari Sriramadasu via ddas)

MAPREDUCE-144. Includes dump of the process tree in task diagnostics when

a task is killed due to exceeding memory limits.

(Vinod Kumar Vavilapalli via yhemanth)

MAPREDUCE-945. Modifies MRBench and TestMapRed to use ToolRunner so that

options such as queue name can be passed via command line.

(Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-963. Deprecate o.a.h.mapred.FileAlreadyExistsException and

replace it with o.a.h.fs.FileAlreadyExistsException. (Boris Shkolnik

via szetszwo)

MAPREDUCE-960. Remove an unnecessary intermediate copy and obsolete API

from KeyValueLineRecordReader. (cdouglas)

MAPREDUCE-930. Modify Rumen to resolve paths in the canonical way, rather

than defaulting to the local filesystem. (cdouglas)

MAPREDUCE-944. Extend the LoadManager API of the fair-share scheduler

to support regulating tasks for a job based on resources currently in use

by that job. (dhruba)

MAPREDUCE-973. Move FailJob and SleepJob from examples to test. (cdouglas

via omalley)

MAPREDUCE-966. Modify Rumen to clean up interfaces and simplify integration

with other tools. (Hong Tang via cdouglas)

MAPREDUCE-856. Setup secure permissions for distributed cache files.

(Vinod Kumar Vavilapalli via yhemanth)

MAPREDUCE-885. More efficient SQL queries for DBInputFormat. (Aaron Kimball

via enis)

MAPREDUCE-284. Enables ipc.client.tcpnodelay in Tasktracker's Child.

(Ravi Gummadi via sharad)

MAPREDUCE-916. Split the documentation to match the project split.

(Corinne Chandel via omalley)

MAPREDUCE-649. Validate a copy by comparing the source and destination

checksums in distcp. Also adds an intra-task retry mechanism for errors

detected during the copy. (Ravi Gummadi via cdouglas)

MAPREDUCE-654. Add a -dryrun option to distcp printing a summary of the

file data to be copied, without actually performing the copy. (Ravi Gummadi

via cdouglas)

MAPREDUCE-664. Display the number of files deleted by distcp when the

-delete option is specified. (Ravi Gummadi via cdouglas)

MAPREDUCE-781. Let the name of distcp jobs be configurable. (Venkatesh S

via cdouglas)

MAPREDUCE-975. Add an API in job client to get the history file url for

a given job id. (sharad)

MAPREDUCE-905. Add Eclipse launch tasks for MapReduce. (Philip Zeyliger

via tomwhite)

MAPREDUCE-277. Makes job history counters available on the job history

viewers. (Jothi Padmanabhan via ddas)

MAPREDUCE-893. Provides an ability to refresh queue configuration

without restarting the JobTracker.

(Vinod Kumar Vavilapalli and Rahul Kumar Singh via yhemanth)

MAPREDUCE-1011. Add build.properties to svn and git ignore. (omalley)

MAPREDUCE-954. Change Map-Reduce context objects to be interfaces.

(acmurthy)

MAPREDUCE-639. Change Terasort example to reflect the 2009 updates.

(omalley)

MAPREDUCE-1063. Document gridmix benchmark. (cdouglas)

MAPREDUCE-931. Use built-in interpolation classes for making up task

runtimes in Rumen. (Dick King via cdouglas)

MAPREDUCE-1012. Mark Context interfaces as public evolving. (Tom White via

cdouglas)

MAPREDUCE-971. Document use of distcp when copying to s3, managing timeouts

in particular. (Aaron Kimball via cdouglas)

HDFS-663. DFSIO for append. (shv)

HDFS-641. Move all of the components that depend on map/reduce to

map/reduce. (omalley)

HADOOP-5107. Use Maven ant tasks to publish artifacts. (Giridharan Kesavan

via omalley)

MAPREDUCE-1229. Allow customization of job submission policy in Mumak.

(Hong Tang via cdouglas)

MAPREDUCE-1317. Reduce the memory footprint of Rumen objects by interning

host Strings. (Hong Tang via cdouglas)

MAPREDUCE-1097. Add support for Vertica 3.5 to its contrib module. (Omer

Trajman via cdouglas)

MAPREDUCE-1627. HadoopArchives should not uses a method in DistCp.

(szetszwo)

MAPREDUCE-1198. Alternatively schedule different types of tasks in

fair share scheduler. (Scott Chen via matei)

MAPREDUCE-707. Provide a jobconf property for explicitly assigning a job to

a pool in the Fair Scheduler. (Alan Heirich via matei)

MAPREDUCE-947. Added commitJob and abortJob apis to OutputCommitter.

Enhanced FileOutputCommitter to create a \_SUCCESS file for successful

jobs. (Amar Kamat & Jothi Padmanabhan via acmurthy)

MAPREDUCE-1103. Added more metrics to Jobtracker. (sharad)

MAPREDUCE-1048. Add occupied/reserved slot usage summary on jobtracker UI.

(Amareshwari Sriramadasu and Hemanth Yamijala via sharad)

MAPREDUCE-1090. Modified log statement in TaskMemoryManagerThread to

include task attempt id. (yhemanth)

MAPREDUCE-1189. Reduce ivy console output to ovservable level (cos)

MAPREDUCE-1167. ProcfsBasedProcessTree collects rss memory information.

(Scott Chen via dhruba)

MAPREDUCE-1231. Added a new DistCp option, -skipcrccheck, so that the CRC

check during setup can be skipped. (Jothi Padmanabhan via szetszwo)

MAPREDUCE-1190. Add package documentation for BBP example.

(Tsz Wo (Nicholas) Sze via cdouglas)

MAPREDUCE-1119. When tasks fail to report status, show tasks's stack dump

before killing. (Aaron Kimball via tomwhite)

MAPREDUCE-1185. Redirect running job url to history url if job is already

retired. (Amareshwari Sriramadasu and Sharad Agarwal via sharad)

MAPREDUCE-1050. Introduce a mock object testing framework. (tomwhite)

MAPREDUCE-1084. Implementing aspects development and fault injeciton

framework for MapReduce. (Sreekanth Ramakrishnan via cos)

MAPREDUCE-1209. Move common specific part of the test TestReflectionUtils

out of mapred into common. (Todd Lipcon via tomwhite)

MAPREDUCE-967. TaskTracker does not need to fully unjar job jars.

(Todd Lipcon via tomwhite)

MAPREDUCE-1083. Changes in MapReduce so that group information of users

can be refreshed in the JobTracker via command line.

(Boris Shkolnik via ddas)

MAPREDUCE-181. Changes the job submission process to be secure.

(Devaraj Das)

MAPREDUCE-1250. Refactors the JobToken to use Common's Token interface.

(Kan Zhang via ddas)

MAPREDUCE-896. Enhance tasktracker to cleanup files that might have

been created by user tasks with non-writable permissions.

(Ravi Gummadi via yhemanth)

MAPREDUCE-372. Change org.apache.hadoop.mapred.lib.ChainMapper/Reducer

to use new mapreduce api. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-1295. Add a tool in Rumen for folding and manipulating job

traces. (Dick King via cdouglas)

MAPREDUCE-1302. TrackerDistributedCacheManager deletes file

asynchronously, thus reducing task initialization delays.

(Zheng Shao via dhruba)

MAPREDUCE-1218. TaskTrackers send cpu and memory usage of

node to JobTracker. (Scott Chen via dhruba)

MAPREDUCE-847. Fix Releaseaudit warning count to zero

(Giridharan Kesavan)

MAPREDUCE-1337. Use generics in StreamJob to improve readability of that

class. (Kay Kay via cdouglas)

MAPREDUCE-361. Port terasort example to the new mapreduce API. (Amareshwari

Sriramadasu via cdouglas)

MAPREDUCE-1367. LocalJobRunner should support parallel mapper execution.

(Aaron Kimball via tomwhite)

MAPREDUCE-64. Eliminate io.sort.record.percent from MapTask configuration.

(cdouglas)

MAPREDUCE-1440. Replace the long user name in MapReduce with the local

name. (omalley)

MAPREDUCE-1470. Move delegation tokens from HDFS to Common so that

MapReduce can use them too. (omalley)

MAPREDUCE-1425. Reduce memory usage by archive. (mahadev via szetszwo)

MAPREDUCE-1441. Trim whitespace from directory lists pulled from the

configuration. (Todd Lipcon via cdouglas)

MAPREDUCE-1309. Refactor Rumen trace generator to improve code structure

and add extensible support for log formats. (Dick King via cdouglas)

MAPREDUCE-1503. Delegation token renewing and cancelling should provide

meaningful exceptions when there are failures instead of returning

false. (omalley)

HADOOP-6579. Upgrade commons-codec library to 1.4. (omalley)

MAPREDUCE-1423. Improve performance of CombineFileInputFormat when multiple

pools are configured. (Dhruba Borthakur via zshao)

MAPREDUCE-1454. Quote user supplied strings in Tracker servlets. (cdouglas)

MAPREDUCE-1408. Add customizable job submission policies to Gridmix. (Rahul

Singh via cdouglas)

MAPREDUCE-1527. Better warning logged when mapred.queue.names is

overshadowed by mapred-queues.xml. (Hong Tang via acmurthy)

MAPREDUCE-1403. Save the size and number of distributed cache artifacts in

the configuration. (Arun Murthy via cdouglas)

MAPREDUCE-1482. Truncate state string and diagnostic information in

TaskStatus. (Amar Kamat via szetszwo)

MAPREDUCE-1593. [Rumen] Improvements to random seed generation (tamas via

mahadev)

MAPREDUCE-1460. Oracle support in DataDrivenDBInputFormat.

(Aaron Kimball via tomwhite)

MAPREDUCE-1569. Pass configuration through mocked contexts in MRUnit.

(Chris White via cdouglas)

MAPREDUCE-1590. Move HarFileSystem from Hadoop Common to Mapreduce tools.

(mahadev)

MAPREDUCE-1629. Get rid of fakeBlockLocations() on HarFileSystem, since

it's not used (mahadev)

MAPREDUCE-1489. DataDrivenDBInputFormat should not query the database

when generating only one split. (Aaron Kimball via tomwhite)

MAPREDUCE-1514. Add documentation on replication, permissions, new options,

limitations and internals of har. (mahadev via szetszwo)

MAPREDUCE-1428. Make block size and the size of archive created files

configurable. (mahadev via szetszwo)

MAPREDUCE-1656. JobStory should provide queue info. (hong via mahadev)

MAPREDUCE-1466. Record number of files processed in FileInputFormat in the

Configuration for offline analysis. (Luke Lu and Arun Murthy via cdouglas)

MAPREDUCE-1538. TrackerDistributedCacheManager manages the

number of files. (Scott Chen via dhruba)

MAPREDUCE-1673. Scripts to start and stop RaidNode.

(Rodrigo Schmidt via dhruba)

MAPREDUCE-1659. RaidNode writes temp files on configured tmp directory and

add random numbers to their names to avoid conflicts

(Rodrigo Schmidt via dhruba)

MAPREDUCE-1221. Allow admins to control physical memory limits per-task

and per-node. (Scott Chen via acmurthy)

MAPREDUCE-1065. Update mapred tutorial to use the new API. (Aaron Kimball

via cdouglas)

MAPREDUCE-1304. Add a task counter tracking time spent in GC. (Aaron

Kimball via cdouglas)

MAPREDUCE-1570. Add grouping comparators to MRUnit. (Chris White via

cdouglas)

MAPREDUCE-1650. Exclude Private elements from generated MapReduce

Javadoc. (tomwhite)

MAPREDUCE-1625. Improve grouping of packages in Javadoc. (tomwhite)

MAPREDUCE-1417. Forrest documentation should be updated to reflect

the changes in MAPREDUCE-744. (Ravi Gummadi via vinodkv)

MAPREDUCE-1568. TrackerDistributedCacheManager should clean up cache

in a background thread. (Scott Chen via zshao)

MAPREDUCE-1749. Move configuration strings out of JobContext so that it

can be made public stable. (omalley)

MAPREDUCE-1623. Apply audience and stability notations to Hadoop

Map-Reduce. (tomwhite via acmurthy)

MAPREDUCE-1751. Change MapReduce to depend on Hadoop 'common' artifacts

instead of 'core'. (tomwhite)

MAPREDUCE-1535. Replace usage of FileStatus#isDir(). (Eli Collins via

tomwhite)

MAPREDUCE-1832. Allow file sizes less than 1MB in DFSIO benchmark. (shv)

MAPREDUCE-1404. Move Cluster-Setup and Single-Node-Setup Docs from

MapReduce to Common. (tomwhite)

MAPREDUCE-1697. Document the behavior of -file option and deprecate it

in favour of -files option in streaming. (Amareshwari Sriramadasu

via vinodkv)

MAPREDUCE-1033. Resolve location of scripts and configuration files after

project split. (tomwhite)

MAPREDUCE-1018. Document changes to the memory management and scheduling

model. (Hemanth Yamijala via vinodkv)

MAPREDUCE-1896. [Herriot] New property for multi user list. (Vinay Thota

via cos)

MAPREDUCE-1812. New properties for suspend and resume process. (Vinay

Thota via cos)

OPTIMIZATIONS

MAPREDUCE-270. Fix the tasktracker to optionally send an out-of-band

heartbeat on task-completion for better job-latency. (acmurthy)

Configuration changes:

add mapreduce.tasktracker.outofband.heartbeat

MAPREDUCE-1186. Modified code in distributed cache to set permissions

only on required set of localized paths.

(Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-1501. FileInputFormat supports multi-level, recursive

directory listing. (Zheng Shao via dhruba)

MAPREDUCE-1556. upgrade to Avro 1.3.0. (cutting via tomwhite)

MAPREDUCE-1613. Install/deploy source jars to Maven repo

(Patrick Angeles via ddas)

MAPREDUCE-1610. Forrest documentation should be updated to reflect

the changes in MAPREDUCE-856. (Ravi Gummadi via vinodkv)

MAPREDUCE-1853. Adds caching for TaskAttemptContext in MultipleOutputs.

(Torsten Curdt via amareshwari)

BUG FIXES

MAPREDUCE-878. Rename fair scheduler design doc to

fair-scheduler-design-doc.tex and add Apache license header (matei)

HADOOP-4687. MapReduce is split from Hadoop Core. It is a subproject under

Hadoop (Owen O'Malley)

HADOOP-6096. Fix Eclipse project and classpath files following project

split. (tomwhite)

MAPREDUCE-419. Reconcile mapred.userlog.limit.kb defaults in configuration

and code. (Philip Zeyliger via cdouglas)

MAPREDUCE-2. Fixes a bug in KeyFieldBasedPartitioner in handling empty

keys. (Amar Kamat via sharad)

MAPREDUCE-130. Delete the jobconf copy from the log directory of the

JobTracker when the job is retired. (Amar Kamat via sharad)

MAPREDUCE-657. Fix hardcoded filesystem problem in CompletedJobStatusStore.

(Amar Kamat via sharad)

MAPREDUCE-179. Update progress in new RecordReaders. (cdouglas)

MAPREDUCE-658. Replace NPE in distcp with a meaningful error message when

the source path does not exist. (Ravi Gummadi via cdouglas)

MAPREDUCE-671. Update ignore list to include untracked, generated

build artifacts and config files. (cdouglas)

MAPREDUCE-433. Use more reliable counters in TestReduceFetch. (cdouglas)

MAPREDUCE-124. Fix a bug in failure handling of abort task of

OutputCommiter. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-694. Fix to add jsp-api jars to capacity-scheduler classpath.

(Giridharan Kesavan)

MAPREDUCE-702. Fix eclipse-plugin jar target (Giridharan Kesavan)

MAPREDUCE-522. Replace TestQueueCapacities with simpler test case to

test integration between capacity scheduler and MR framework.

(Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-683. Fixes an initialization problem in the JobHistory.

The initialization of JobHistoryFilesManager is now done in the

JobHistory.init call. (Amar Kamat via ddas)

MAPREDUCE-708. Fixes a bug to allow updating the reason for

blacklisting a node on the JobTracker UI.

(Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-709. Fixes message displayed for a blacklisted node where

the reason for blacklisting is due to the health check script

timing out. (Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-676. Existing diagnostic rules fail for MAP ONLY jobs.

(Suhas Gogate via tomwhite)

MAPREDUCE-722. Fixes a bug with tasktracker reservations for

high memory jobs in capacity scheduler.

(Vinod Kumar Vavilapalli via yhemanth)

HADOOP-6090. Updates gridmix script to use new mapreduce api output

format. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-732. Removed spurious log statements in the node

blacklisting logic. (Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-734. Fix a ConcurrentModificationException in unreserving

unused reservations for a job when it completes.

(Arun Murthy and Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-733. Fix a RuntimeException while unreserving trackers

that are blacklisted for a job.

(Arun Murthy and Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-677. Fix timeout in TestNodeRefresh. (Amar Kamat via

sharad)

MAPREDUCE-153. Fix timeout in TestJobInProgressListener. (Amar

Kamat via sharad)

MAPREDUCE-742. Fix output messages and java comments in the Pi related

examples. (szetszwo)

MAPREDUCE-565. Fix partitioner to work with new API. (Owen O'Malley via

cdouglas)

MAPREDUCE-680. Fix so MRUnit can handle reuse of Writable objects.

(Aaron Kimball via johan)

MAPREDUCE-18. Puts some checks for cross checking whether a reduce

task gets the correct shuffle data. (Ravi Gummadi via ddas)

MAPREDUCE-771. Fix scheduling of setup and cleanup tasks to use

free slots instead of tasks for scheduling. (yhemanth)

MAPREDUCE-717. Fixes some corner case issues in speculative

execution heuristics. (Devaraj Das)

MAPREDUCE-716. Make DBInputFormat work with Oracle. (Aaron Kimball

via tomwhite)

MAPREDUCE-735. Fixes a problem in the KeyFieldHelper to do with

the end index for some inputs (Amar Kamat via ddas)

MAPREDUCE-682. Removes reservations on tasktrackers which are

blacklisted. (Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-743. Fixes a problem to do with progress reporting

in the map phase. (Ravi Gummadi via ddas)

MAPREDUCE-765. Eliminate the deprecated warnings introduced by H-5438.

(He Yongqiang via szetszwo)

MAPREDUCE-383. Fix a bug in Pipes combiner due to bytes count not

getting reset after the spill. (Christian Kunz via sharad)

MAPREDUCE-809. Fix job-summary logs to correctly record status of FAILED

and KILLED jobs. (acmurthy)

MAPREDUCE-792. Fix unchecked warnings in DBInputFormat. (Aaron Kimball

via szetszwo)

MAPREDUCE-760. Fix a timing issue in TestNodeRefresh. (Amar Kamat via

sharad)

MAPREDUCE-40. Keep memory management backwards compatible for job

configuration parameters and limits. (Rahul Kumar Singh via yhemanth)

MAPREDUCE-587. Fixes a OOM issue in TestStreamingExitStatus.

(Amar Kamat via ddas)

MAPREDUCE-408. Fixes an assertion problem in TestKillSubProcesses

(Ravi Gummadi via ddas)

MAPREDUCE-659. Fix gridmix2 compilation. (Giridharan Kesavan)

MAPREDUCE-796. Fixes a ClassCastException in an exception log in

MultiThreadedMapRunner. (Amar Kamat via ddas)

MAPREDUCE-808. Fixes a serialization problem in TypedBytes.

(Klaas Bosteels via ddas)

MAPREDUCE-845. Fix a findbugs heap size problem in build.xml and add

a new property findbugs.heap.size. (Lee Tucker via szetszwo)

MAPREDUCE-838. Fixes a problem in the way commit of task outputs

happens. The bug was that even if commit failed, the task would

be declared as successful. (Amareshwari Sriramadasu via ddas)

MAPREDUCE-813. Updates Streaming and M/R tutorial documents.

(Corinne Chandel via ddas)

MAPREDUCE-805. Fixes some deadlocks in the JobTracker due to the fact

the JobTracker lock hierarchy wasn't maintained in some JobInProgress

method calls. (Amar Kamat via ddas)

MAPREDUCE-799. Fixes so all of the MRUnit self-tests run.

(Aaron Kimball via johan)

MAPREDUCE-848. Fixes a problem to do with TestCapacityScheduler

failing (Amar Kamat via ddas)

MAPREDUCE-840. DBInputFormat leaves open transaction.

(Aaron Kimball via tomwhite)

MAPREDUCE-859. Adds Avro and its dependencies required by Hadoop

common. (Ravi Gummadi via sharad)

MAPREDUCE-867. Fix ivy conf to look for avro jar from maven repo.

(Giridharan Kesavan)

MAPREDUCE-877. Added avro as a dependency to contrib ivy settings.

(Tsz Wo (Nicholas) Sze via yhemanth)

MAPREDUCE-852. In build.xml, remove the Main-Class, which is incorrectly

set in tools, and rename the target "tools-jar" to "tools". (szetszwo)

MAPREDUCE-773. Sends progress reports for compressed gzip inputs in maps.

Fixes a native direct buffer leak in LineRecordReader classes.

(Hong Tang and ddas)

MAPREDUCE-832. Reduce number of warning messages printed when

deprecated memory variables are used. (Rahul Kumar Singh via yhemanth)

MAPREDUCE-745. Fixes a testcase problem to do with generation of JobTracker

IDs. (Amar Kamat via ddas)

MAPREDUCE-834. Enables memory management on tasktrackers when old

memory management parameters are used in configuration.

(Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-818. Fixes Counters#getGroup API. (Amareshwari Sriramadasu

via sharad)

MAPREDUCE-807. Handles the AccessControlException during the deletion of

mapred.system.dir in the JobTracker. The JobTracker will bail out if it

encounters such an exception. (Amar Kamat via ddas)

MAPREDUCE-430. Fix a bug related to task getting stuck in case of

OOM error. (Amar Kamat via ddas)

MAPREDUCE-871. Fix ownership of Job/Task local files to have correct

group ownership according to the egid of the tasktracker.

(Vinod Kumar Vavilapalli via yhemanth)

MAPREDUCE-911. Fix a bug in TestTaskFail related to speculative

execution. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-687. Fix an assertion in TestMiniMRMapRedDebugScript.

(Amareshwari Sriramadasu via sharad)

MAPREDUCE-924. Fixes the TestPipes testcase to use Tool.

(Amareshwari Sriramadasu via sharad)

MAPREDUCE-903. Add Avro jar to eclipse classpath.

(Philip Zeyliger via tomwhite)

MAPREDUCE-943. Removes a testcase in TestNodeRefresh that doesn't make

sense in the new Job recovery model. (Amar Kamat via ddas)

MAPREDUCE-764. TypedBytesInput's readRaw() does not preserve custom type

codes. (Klaas Bosteels via tomwhite)

HADOOP-6243. Fixes a NullPointerException in handling deprecated keys.

(Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-968. NPE in distcp encountered when placing \_logs directory on

S3FileSystem. (Aaron Kimball via tomwhite)

MAPREDUCE-826. harchive doesn't use ToolRunner / harchive returns 0 even

if the job fails with exception (koji Noguchi via mahadev)

MAPREDUCE-839. unit test TestMiniMRChildTask fails on mac os-x (hong tang

via mahadev)

MAPREDUCE-112. Add counters for reduce input, output records to the new API.

(Jothi Padmanabhan via cdouglas)

MAPREDUCE-648. Fix two distcp bugs: (1) it should not launch a job if all

src paths are directories, and (2) it does not skip copying when updating

a single file. (Ravi Gummadi via szetszwo)

MAPREDUCE-946. Fix a regression in LineRecordReader where the

maxBytesToConsume parameter is not set correctly. (cdouglas)

MAPREDUCE-977. Missing jackson jars from Eclipse template. (tomwhite)

MAPREDUCE-988. Fix a packaging issue in the contrib modules. (Hong Tang via

cdouglas)

MAPREDUCE-971. distcp does not always remove distcp.tmp.dir. (Aaron Kimball

via tomwhite)

MAPREDUCE-995. Fix a bug in JobHistory where tasks completing after the job

is closed cause a NPE. (Jothi Padmanabhan via cdouglas)

MAPREDUCE-953. Fix QueueManager to dump queue configuration in JSON format.

(V.V. Chaitanya Krishna via yhemanth)

MAPREDUCE-645. Prevent distcp from running a job when the destination is a

file, but the source is not. (Ravi Gummadi via cdouglas)

MAPREDUCE-1002. Flushed writer in JobQueueClient so queue information is

printed correctly. (V.V. Chaitanya Krishna via yhemanth)

MAPREDUCE-1003. Fix compilation problem in eclipse plugin when

eclipse.home is set. (Ravi Gummadi via yhemanth)

MAPREDUCE-941. Vaidya script fails on Solaris. (Chad Metcalf

via tomwhite)

MAPREDUCE-912. Add and standardize Apache license headers. (Chad Metcalf

via cdouglas)

MAPREDUCE-1022. Fix compilation of vertica testcases. (Vinod Kumar

Vavilapalli via acmurthy)

MAPREDUCE-1000. Handle corrupt history files in JobHistory.initDone().

(Jothi Padmanabhan via sharad)

MAPREDUCE-1028. Fixed number of slots occupied by cleanup tasks to one

irrespective of slot size for the job.

(Ravi Gummadi via yhemanth)

MAPREDUCE-964. Fixed start and finish times of TaskStatus to be

consistent, thereby fixing inconsistencies in metering tasks.

(Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-1076. Deprecate ClusterStatus and add javadoc in ClusterMetrics.

(Amareshwari Sriramadasu via sharad)

MAPREDUCE-979. Fixed JobConf APIs related to memory parameters to return

values of new configuration variables when deprecated variables are

disabled. (Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-1030. Modified scheduling algorithm to return a map and reduce

task per heartbeat in the capacity scheduler.

(Rahul Kumar Singh via yhemanth)

MAPREDUCE-1071. Use DataInputStream rather than FSDataInputStream in the

JobHistory EventReader. (Hong Tang via cdouglas)

MAPREDUCE-986. Fix Rumen to work with truncated task lines. (Dick King via

cdouglas)

MAPREDUCE-1029. Fix failing TestCopyFiles by restoring the unzipping of

HDFS webapps from the hdfs jar. (Aaron Kimball and Jothi Padmanabhan via

cdouglas)

MAPREDUCE-769. Make findbugs and javac warnings to zero.

(Amareshwari Sriramadasu via sharad)

MAPREDUCE-1104. Initialize RecoveryManager in JobTracker cstr called by

Mumak. (Hong Tang via cdouglas)

MAPREDUCE-1061. Add unit test validating byte specifications for gridmix

jobs. (cdouglas)

MAPREDUCE-1077. Fix Rumen so that truncated tasks do not mark the job as

successful. (Dick King via cdouglas)

MAPREDUCE-1041. Make TaskInProgress::taskStatuses map package-private.

(Jothi Padmanabhan via cdouglas)

MAPREDUCE-1070. Prevent a deadlock in the fair scheduler servlet.

(Todd Lipcon via cdouglas)

MAPREDUCE-1086. Setup Hadoop logging environment for tasks to point to

task related parameters. (Ravi Gummadi via yhemanth)

MAPREDUCE-1105. Remove max limit configuration in capacity scheduler in

favor of max capacity percentage thus allowing the limit to go over

queue capacity. (Rahul Kumar Singh via yhemanth)

MAPREDUCE-1016. Make the job history log format JSON. (cutting)

MAPREDUCE-1038. Weave Mumak aspects only if related files have changed.

(Aaron Kimball via cdouglas)

MAPREDUCE-1163. Remove unused, hard-coded paths from libhdfs. (Allen

Wittenauer via cdouglas)

MAPREDUCE-962. Fix a NullPointerException while killing task process

trees. (Ravi Gummadi via yhemanth)

MAPREDUCE-1177. Correct setup/cleanup inversion in

JobTracker::getTaskReports. (Vinod Kumar Vavilapalli via cdouglas)

MAPREDUCE-1178. Fix ClassCastException in MultipleInputs by adding

a DelegatingRecordReader. (Amareshwari Sriramadasu and Jay Booth

via sharad)

MAPREDUCE-1068. Fix streaming job to show proper message if file is

is not present. (Amareshwari Sriramadasu via sharad)

MAPREDUCE-1147. Add map output counters to new API. (Amar Kamat via

cdouglas)

MAPREDUCE-915. The debug scripts are run as the job user. (ddas)

MAPREDUCE-1007. Fix NPE in CapacityTaskScheduler.getJobs().

(V.V.Chaitanya Krishna via sharad)

MAPREDUCE-28. Refactor TestQueueManager and fix default ACLs.

(V.V.Chaitanya Krishna and Rahul K Singh via sharad)

MAPREDUCE-1182. Fix overflow in reduce causing allocations to exceed the

configured threshold. (cdouglas)

MAPREDUCE-1239. Fix contrib components build dependencies.

(Giridharan Kesavan and omalley)

MAPREDUCE-787. Fix JobSubmitter to honor user given symlink path.

(Amareshwari Sriramadasu via sharad)

MAPREDUCE-1249. Update config default value for socket read timeout to

match code default. (Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-1161. Remove ineffective synchronization in NotificationTestCase.

(Owen O'Malley via cdouglas)

MAPREDUCE-1244. Fix eclipse-plugin's build dependencies. (gkesavan)

MAPREDUCE-1075. Fix JobTracker to not throw an NPE for a non-existent

queue. (V.V.Chaitanya Krishna via yhemanth)

MAPREDUCE-754. Fix NPE in expiry thread when a TT is lost. (Amar Kamat

via sharad)

MAPREDUCE-1074. Document Reducer mark/reset functionality. (Jothi

Padmanabhan via cdouglas)

MAPREDUCE-1267. Fix typo in mapred-default.xml. (Todd Lipcon via cdouglas)

MAPREDUCE-952. Remove inadvertently reintroduced Task.Counter enum. (Jothi

Padmanabhan via cdouglas)

MAPREDUCE-1230. Fix handling of null records in VerticaInputFormat. (Omer

Trajman via cdouglas)

MAPREDUCE-1171. Allow shuffle retries and read-error reporting to be

configurable. (Amareshwari Sriramadasu via acmurthy)

MAPREDUCE-879. Fix broken unit test TestTaskTrackerLocalization on MacOS.

(Sreekanth Ramakrishnan via yhemanth)

MAPREDUCE-1124. Fix imprecise byte counts in Gridmix. (cdouglas)

MAPREDUCE-1222. Add an option to exclude numeric IP addresses in topologies

processed by Mumak. (Hong Tang via cdouglas)

MAPREDUCE-1284. Fix fts\_open() call in task-controller that was failing

LinuxTaskController unit tests. (Ravi Gummadi via yhemanth)

MAPREDUCE-1143. Fix running task counters to be updated correctly

when speculative attempts are running for a TIP.

(Rahul Kumar Singh via yhemanth)

MAPREDUCE-1241. Use a default queue configuration in JobTracker when

mapred-queues.xml is unavailable. (Todd Lipcon via cdouglas)

MAPREDUCE-1301. Fix set up of permission checking script used in

localization tests. (Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-1286. Remove quoting from client opts in TaskRunner. (Yuri

Pradkin via cdouglas)

MAPREDUCE-1059. Use distcp.bytes.per.map when adding sync markers in

distcp. (Aaron Kimball via cdouglas)

MAPREDUCE-1009. Update forrest documentation describing hierarchical

queues. (Vinod Kumar Vavilapalli via yhemanth)

MAPREDUCE-1342. Fixed deadlock in global blacklisting of tasktrackers.

(Amareshwari Sriramadasu via acmurthy)

MAPREDUCE-1316. Fixes a memory leak of TaskInProgress instances in

the jobtracker. (Amar Kamat via yhemanth)

MAPREDUCE-1359. TypedBytes TestIO doesn't mkdir its test dir first.

(Anatoli Fomenko via cos)

MAPREDUCE-1314. Correct errant mapreduce.x.mapreduce.x replacements from

bulk change. (Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-1365. Restore accidentally renamed test in

TestTaskTrackerBloacklisting. (Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-1406. Fix spelling of JobContext.MAP\_COMBINE\_MIN\_SPILLS.

(cdouglas)

MAPREDUCE-1369. JUnit tests should never depend on anything in conf

(Anatoli Fomenko via cos)

MAPREDUCE-1412. Fix timer granularity issue causing failures in

TestTaskTrackerBlacklisting. (cdouglas)

MAPREDUCE-1448. Respect --config option in Mumak script. (Hong Tang via

cdouglas)

MAPREDUCE-1251. c++ utils doesn't compile. (Eli Collins via tomwhite)

MAPREDUCE-1522. FileInputFormat may use the default FileSystem for the

input path. (Tsz Wo (Nicholas), SZE via cdouglas)

MAPREDUCE-1407. Update javadoc in mapreduce.{Mapper,Reducer} to match

actual usage. (Benoit Sigoure via cdouglas)

MAPREDUCE-1258. Fix fair scheduler event log not logging job info.

(matei)

MAPREDUCE-1089. Fix NPE in fair scheduler preemption when tasks are

scheduled but not running. (Todd Lipcon via matei)

MAPREDUCE-1014. Fix the libraries for common and hdfs. (omalley)

MAPREDUCE-1111. JT Jetty UI not working if we run mumak.sh

off packaged distribution directory. (hong tang via mahadev)

MAPREDUCE-1133. Eclipse .classpath template has outdated jar files and is

missing some new ones. (cos)

MAPREDUCE-1098. Fixed the distributed-cache to not do i/o while holding a

global lock. (Amareshwari Sriramadasu via acmurthy)

MAPREDUCE-1158. Fix JT running maps and running reduces metrics.

(sharad)

MAPREDUCE-1160. Reduce verbosity of log lines in some Map/Reduce classes

to avoid filling up jobtracker logs on a busy cluster.

(Ravi Gummadi and Hong Tang via yhemanth)

MAPREDUCE-1153. Fix tasktracker metrics when trackers are decommissioned.

(sharad)

MAPREDUCE-1128. Fix MRUnit to prohibit iterating over values twice. (Aaron

Kimball via cdouglas)

MAPREDUCE-665. Move libhdfs to HDFS subproject. (Eli Collins via dhruba)

MAPREDUCE-1196. Fix FileOutputCommitter to use the deprecated cleanupJob

api correctly. (acmurthy)

MAPREDUCE-1244. Fix eclipse-plugin's build dependencies. (gkesavan)

MAPREDUCE-1140. Fix DistributedCache to not decrement reference counts for

unreferenced files in error conditions.

(Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-1245. Fix TestFairScheduler failures by instantiating lightweight

Jobtracker. (sharad)

MAPREDUCE-1260. Update Eclipse configuration to match changes to Ivy

configuration. (Edwin Chan via cos)

MAPREDUCE-1152. Distinguish between failed and killed tasks in

JobTrackerInstrumentation. (Sharad Agarwal via cdouglas)

MAPREDUCE-1285. In DistCp.deleteNonexisting(..), get class from the

parameter instead of using FileStatus.class. (Peter Romianowski via

szetszwo)

MAPREDUCE-1294. Build fails to pull latest hadoop-core-\* artifacts (cos)

MAPREDUCE-1213. TaskTrackers restart is faster because it deletes

distributed cache directory asynchronously. (Zheng Shao via dhruba)

MAPREDUCE-1265. The task attempt error log prints the name of the

tasktracker machine. (Scott Chen via dhruba)

MAPREDUCE-1201. ProcfsBasedProcessTree collects CPU usage information.

(Scott Chen via dhruba)

MAPREDUCE-1326. fi tests don't use fi-site.xml (cos)

MAPREDUCE-1165. Replace non-portable function name with C99 equivalent.

(Allen Wittenauer via cdouglas)

MAPREDUCE-1331. Fixes a typo in a testcase (Devaraj Das)

MAPREDUCE-1293. AutoInputFormat doesn't work with non-default FileSystems.

(Andrew Hitchcock via tomwhite)

MAPREDUCE-1131. Using profilers other than hprof can cause JobClient to

report job failure. (Aaron Kimball via tomwhite)

MAPREDUCE-1155. Streaming tests swallow exceptions.

(Todd Lipcon via tomwhite)

MAPREDUCE-1212. Mapreduce contrib project ivy dependencies are not included

in binary target. (Aaron Kimball via tomwhite)

MAPREDUCE-1388. Move the HDFS RAID package from HDFS to MAPREDUCE.

(Eli Collins via dhruba)

MAPREDUCE-1322. Defines default value for staging directory to be user

based fixing a failing streaming test.

(Devaraj Das and Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-899. Modified LinuxTaskController to check that task-controller

has right permissions and ownership before performing any actions.

(Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-1443. DBInputFormat can leak connections.

(Aaron Kimball via tomwhite)

MAPREDUCE-1457. Fixes JobTracker to get the FileSystem object within

getStagingAreaDir within a privileged block. Fixes Child.java to use the

appropriate UGIs while getting the TaskUmbilicalProtocol proxy and

while executing the task. (Jakob Homan via ddas)

MAPREDUCE-1399. The archive command shows a null error message (nicholas

via mahadev)

MAPREDUCE-1305. Improve efficiency of distcp -delete. (Peter Romianowski

via cdouglas)

MAPREDUCE-1474. Update forrest documentation for Hadoop Archives. (Mahadev

Konar via cdouglas)

MAPREDUCE-1400. Use tr rather than sed to effect literal substitution in

the build script. (Allen Wittenauer via cdouglas)

MAPREDUCE-1358. Avoid false positives in OutputLogFilter. (Todd Lipcon via

cdouglas)

MAPREDUCE-1490. Fix a NullPointerException that could occur during

instantiation and initialization of the DistributedRaidFileSystem.

(Rodrigo Schmidt via dhruba)

MAPREDUCE-1476. Fix the M/R framework to not call commit for special

tasks like job setup/cleanup and task cleanup.

(Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-1398. Fix TaskLauncher to stop waiting for slots on a TIP that

is killed / failed.

(Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-1491. The parity files created by the RAID are combined

using Hadoop Archive Files (HAR). (Rodrigo Schmidt via dhruba)

MAPREDUCE-1378. URL encode link in jobhistory.jsp to avoid errors caused by

unescaped characters. (E. Sammer via cdouglas)

MAPREDUCE-1519. RaidNode fails to create new parity file

if an older version already exists. (Rodrigo Schmidt via dhruba)

MAPREDUCE-1537. Fixes a compilation problem in a testcase after commit

HDFS-984. (Jitendra Nath Pandey via ddas)

MAPREDUCE-1537. The patch makes the job client call the getDelegationToken

only when security is enabled. (Jitendra Nath Pandey via ddas)

MAPREDUCE-1510. RAID should regenerate parity files if they get deleted.

(Rodrigo Schmidt via dhruba)

MAPREDUCE-1421. Fix the LinuxTaskController tests failing on trunk after

the commit of MAPREDUCE-1385. (Amareshwari Sriramadasu via vinodkv)

MAPREDUCE-1520. Fix TestMiniMRLocalFS failure caused by regression in

getting user working dir. (Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-1512. RAID uses HarFileSystem directly instead of

FileSystem.get (Rodrigo Schmidt via dhruba)

MAPREDUCE-1435. Fix symlink handling in task work directory when

cleaning up, essentially to avoid following links.

(Ravi Gummadi via yhemanth)

MAPREDUCE-1518. RaidNode does not run the deletion check on the

directory that stores the parity files. (Rodrigo Schmidt via dhruba)

MAPREDUCE-1573. TestStreamingAsDifferentUser fails if run as tt\_user.

(Ravi Gummadi via vinodkv)

MAPREDUCE-927. Cleanup of task-logs should happen in TaskTracker instead

of the Child. (Amareshwari Sriramadasu via vinodkv)

MAPREDUCE-1578. Decouple HadoopArchives vesrion from HarFileSystem version.

(Rodrigo Schmidt via szetszwo)

MAPREDUCE-1422. Fix cleanup of localized job directory to work if files

with non-deletable permissions are created within it.

(Amar Kamat via yhemanth)

MAPREDUCE-1306. Randomize the arrival of heartbeat responses in Mumak.

(Tamas Sarlos via cdouglas)

MAPREDUCE-1579. archive: check and possibly replace the space charater

in source paths. (szetszwo)

MAPREDUCE-1536. DataDrivenDBInputFormat does not split date columns correctly.

(Aaron Kimball via enis)

MAPREDUCE-890. After HADOOP-4491, the user who started mapred system is

not able to run job. (Ravi Gummadi via vinodkv)

MAPREDUCE-1615. Fix compilation of TestSubmitJob. (cdouglas)

MAPREDUCE-1508. Protect against NPE in TestMultipleLevelCaching. (Aaron

Kimball via cdouglas)

MAPREDUCE-1497. Suppress spurious findbugs warning about IndexCache

synchronization. (Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-1420. Fix TestTTResourceReporting failure. (Scott Chen via

cdouglas)

MAPREDUCE-1480. Correctly initialize child RecordReaders in

CombineFileInputFormat. (Aaron Kimball via cdouglas)

MAPREDUCE-1348. Fix block forensics packaging. (Tom White via cdouglas)

MAPREDUCE-1628. HarFileSystem shows incorrect replication numbers and

permissions. (szetszwo via mahadev)

MAPREDUCE-1602. Fix the error message for the case that src does not

exist. (szetszwo)

MAPREDUCE-1585. Create Hadoop Archives version 2 with filenames

URL-encoded (rodrigo via mahadev)

MAPREDUCE-1523. Sometimes rumen trace generator fails to extract the job

finish time. (dick king via mahadev)

MAPREDUCE-1635. ResourceEstimator does not work after MAPREDUCE-842.

(Amareshwari Sriramadasu via vinodkv)

MAPREDUCE-889. binary communication formats added to Streaming by

HADOOP-1722 should be documented. (Klaas Bosteels via tomwhite)

MAPREDUCE-1031. ant tar target doens't seem to compile tests in contrib

projects. (Aaron Kimball via tomwhite)

MAPREDUCE-1692. Removed unused testcase TestStreamedMerge.

(Sreekanth Ramakrishnan and Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-1062. Fix ReliabilityTest to work with retired jobs. (Sreekanth

Ramakrishnan via cdouglas)

MAPREDUCE-1409. IOExceptions thrown from FIleOutputCommitter::abortTask

should cause the task to fail. (Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-1695. Include capacity scheduler in findbugs and javadoc-dev

targets and also fix existing warnings. (Hong Tang via yhemanth)

MAPREDUCE-1494. Ensure TestJobDirCleanup verifies the correct paths.

(Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-1622. Include missing slf4j dependencies. (cdouglas)

MAPREDUCE-1515. Accept java5.home from build.properties, not only from the

command line when building forrest docs. (Al Thompson via cdouglas)

MAPREDUCE-1618. Add missing javadoc to JobStatus::\*JobAcls. (Amareshwari

Sriramadasu via cdouglas)

MAPREDUCE-1219. Remove job level metrics from jobtracker metrics to ease

undue load on jobtracker. (Sreekanth Ramakrishnan via sharad)

MAPREDUCE-1604. Add Forrest documentation for Job ACLs.

(Amareshwari Sriramadasu via yhemanth)

MAPREDUCE-1705. Archiving and Purging of HDFS parity files should

handle globbed policies accurately. (Rodrigo Schmidt via dhruba)

MAPREDUCE-1612. job conf file is not accessible from job history web page.

(Ravi Gummadi and Sreekanth Ramakrishnan via vinodkv)

MAPREDUCE-1397. NullPointerException observed during task failures.

(Amareshwari Sriramadasu via vinodkv)

MAPREDUCE-1728. Oracle timezone strings do not match Java.

(Aaron Kimball via tomwhite)

MAPREDUCE-1609. TaskTracker.localizeJob should not set permissions on

job log directory recursively. (Amareshwari Sriramadasu via vinodkv)

MAPREDUCE-1657. After task logs directory is deleted, tasklog servlet

displays wrong error message about job ACLs. (Ravi Gummadi via vinodkv)

MAPREDUCE-1727. TestJobACLs fails after HADOOP-6686. (Ravi Gummadi via vinodkv)

MAPREDUCE-1611. Refresh nodes and refresh queues doesnt work with service

authorization enabled. (Amar Kamat via vinodkv)

MAPREDUCE-1276. Correct flaws in the shuffle related to connection setup

and failure attribution. (Amareshwari Sriramadasu via cdouglas)

MAPREDUCE-1372. ConcurrentModificationException in JobInProgress.

(Dick King and Amareshwari Sriramadasu via tomwhite)

MAPREDUCE-118. Fix Job.getJobID(). (Amareshwari Sriramadasu via sharad)

MAPREDUCE-913. TaskRunner crashes with NPE resulting in held up slots,

UNINITIALIZED tasks and hung TaskTracker. (Amareshwari Sriramadasu and

Sreekanth Ramakrishnan via vinodkv)

MAPREDUCE-1725. Fix MapReduce API incompatibilities between 0.20 and 0.21.

(tomwhite)

MAPREDUCE-1606. TestJobACLs may timeout as there are no slots for launching

JOB\_CLEANUP task. (Ravi Gummadi via vinodkv)

MAPREDUCE-1765. Correct streaming documentation for StreamXmlRecordReader.

(Corinne Chandel via amareshwari)

MAPREDUCE-1880. Fix BigDecimal.divide(..) in the pi example. (szetszwo)

MAPREDUCE-1885. Revert FileSystem create method that takes CreateFlags

(MapReduce part of HADOOP-6826). (Ravi Gummadi via tomwhite)

MAPREDUCE-1870. Harmonize MapReduce JAR library versions with Common and

HDFS. (tomwhite)

MAPREDUCE-1791. Remote cluster control functionality needs JavaDocs

improvement (Konstantin Boudnik)

MAPREDUCE-1942. 'compile-fault-inject' should never be called directly.

(Konstantin Boudnik)

MAPREDUCE-1876. Fixes TaskAttemptStartedEvent to correctly log event type

for all task types. (Amar Kamat via amareshwari)

MAPREDUCE-1926. MapReduce distribution is missing build-utils.xml.

(tomwhite)

MAPREDUCE-2012. Some contrib tests fail in branch 0.21 and trunk.

(Amareshwari Sriramadasu via tomwhite)

MAPREDUCE-1980. Fixes TaskAttemptUnsuccessfulCompletionEvent and

TaskAttemptFinishedEvent to correctly log event type for all task types.

(Amar Kamat via amareshwari)

MAPREDUCE-1856. Extract a subset of tests for smoke (DOA) validation (cos)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt**

Hadoop HDFS Change Log

Release 2.6.5 - 2016-10-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HDFS-9629. Update the footer of Web UI to show year 2016

(Xiao Chen and Vinayakumar B via vinayakumarb)

HDFS-9688. Test the effect of nested encryption zones in HDFS downgrade.

(zhz)

HDFS-10264. Logging improvements in FSImageFormatProtobuf.Saver. (Xiaobing

Zhou via shvachko)

HDFS-2580. NameNode#main(...) can make use of GenericOptionsParser. (harsh)

HDFS-7258. CacheReplicationMonitor rescan schedule log should use DEBUG

level instead of INFO level. (Xiaoyu Yao via wheat9)

HDFS-10377. CacheReplicationMonitor shutdown log message should use INFO

level (Yiqun Lin via cmccabe)

HDFS-9669. TcpPeerServer should respect ipc.server.listen.queue.size

(Elliot Clark via cmccabe)

HDFS-10870. Wrong dfs.namenode.acls.enabled default in HdfsPermissionsGuide.apt.vm.

(John Zhuge via lei)

OPTIMIZATIONS

HDFS-10653. Optimize conversion from path string to components. (Daryn

Sharp via zhz)

HDFS-8845. DiskChecker should not traverse the entire tree (Chang Li via

Colin P. McCabe)

BUG FIXES

HDFS-9347. Invariant assumption in TestQuorumJournalManager.shutdown()

is wrong. (Wei-Chiu Chuang via zhz)

HDFS-9752. Permanent write failures may happen to slow writers during

datanode rolling upgrades. (Walter Su via kihwal)

HDFS-10182. Hedged read might overwrite user's buf. (zhouyingchao via

Walter Su)

HDFS-10271. Extra bytes are getting released from reservedSpace for append

(Brahma Reddy Battula via vinayakumarb)

HDFS-10458. getFileEncryptionInfo should return quickly for non-encrypted

cluster. (zhz)

HDFS-8581. ContentSummary on / skips further counts on yielding lock

(J.Andreina via vinayakumarb)

HDFS-10544. Balancer doesn't work with IPFailoverProxyProvider. (zhz)

HDFS-9530. ReservedSpace is not cleared for abandoned Blocks.

(Brahma Reddy Battula)

HDFS-10178. Permanent write failures can happen if pipeline recoveries

occur for the first packet (kihwal)

HDFS-9365. Balancer does not work with the HDFS-6376 HA setup. (Tsz Wo

Nicholas Sze)

HDFS-9696. Garbage snapshot records linger forever. (kihwal)

HDFS-10763. Open files can leak permanently due to inconsistent

lease update (kihwal)

HDFS-7530. Allow renaming of encryption zone roots. (Charles Lamb via wang)

Release 2.6.4 - 2016-02-11

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HDFS-8647. Abstract BlockManager's rack policy into BlockPlacementPolicy.

(Brahma Reddy Battula via mingma)

HDFS-9313. Possible NullPointerException in BlockManager if no excess

replica can be chosen. (mingma)

HDFS-9314. Improve BlockPlacementPolicyDefault's picking of excess

replicas. (Xiao Chen via zhz)

HDFS-6945. BlockManager should remove a block from excessReplicateMap and

decrement ExcessBlocks metric when the block is removed. (aajisaka)

HDFS-9574. Reduce client failures during datanode restart (kihwal)

HDFS-9415. Document dfs.cluster.administrators and

dfs.permissions.superusergroup. (Xiaobing Zhou via Arpit Agarwal)

OPTIMIZATIONS

BUG FIXES

HDFS-9445. Datanode may deadlock while handling a bad volume.

(Wlater Su via Kihwal)

HDFS-9600. do not check replication if the block is under construction

(Phil Yang via vinayakumarb)

HDFS-8767. RawLocalFileSystem.listStatus() returns null for UNIX pipefile.

(Kanaka Kumar Avvaru via wheat9)

HDFS-9294. DFSClient deadlock when close file and failed to renew lease.

(Brahma Reddy Battula via szetszwo)

HDFS-4660. Block corruption can happen during pipeline recovery (kihwal)

HDFS-9178. Slow datanode I/O can cause a wrong node to be marked bad.

(Kihwal Lee)

HDFS-8722. Optimize datanode writes for small writes and flushes.

(Kihwal Lee)

HDFS-9220. Reading small file (< 512 bytes) that is open for append fails

due to incorrect checksum (Jing Zhao via kihwal)

Release 2.6.3 - 2015-12-17

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HDFS-8615. Correct HTTP method in WebHDFS document.

(Brahma Reddy Battula via aajisaka)

HDFS-9431. DistributedFileSystem#concat fails if the target path is

relative. (Kazuho Fujii via aajisaka)

HDFS-9083. Replication violates block placement policy (Rushabh Shah)

HDFS-9289. Make DataStreamer#block thread safe and verify genStamp in

commitBlock. (Chang Li via zhz)

HDFS-9434. Recommission a datanode with 500k blocks may pause NN for 30

seconds for printing info log messags. (szetszwo)

HDFS-9470. Encryption zone on root not loaded from fsimage after NN

restart. (Xiao Chen via wang)

HDFS-9273. ACLs on root directory may be lost after NN restart.

(Xiao Chen via cnauroth)

Release 2.6.2 - 2015-10-28

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.6.1 - 2015-09-23

INCOMPATIBLE CHANGES

NEW FEATURES

HDFS-7278. Add a command that allows sysadmins to manually trigger full

block reports from a DN (cmccabe)

IMPROVEMENTS

HDFS-7035. Make adding a new data directory to the DataNode an atomic

operation and improve error handling (Lei Xu via Colin P. McCabe)

HDFS-7531. Improve the concurrent access on FsVolumeList (Lei Xu via Colin

P. McCabe)

HDFS-7579. Improve log reporting during block report rpc failure.

(Charles Lamb via cnauroth)

HDFS-7182. JMX metrics aren't accessible when NN is busy. (Ming Ma via jing9)

HDFS-7596. NameNode should prune dead storages from storageMap.

(Arpit Agarwal via cnauroth)

HDFS-8046. Allow better control of getContentSummary (kihwal)

HDFS-8384. Allow NN to startup if there are files having a lease but are not

under construction. (jing9)

HDFS-7694. FSDataInputStream should support "unbuffer" (cmccabe)

OPTIMIZATIONS

HDFS-8480. Fix performance and timeout issues in HDFS-7929 by using

hard-links to preserve old edit logs, instead of copying them. (Zhe Zhang

via Colin P. McCabe)

BUG FIXES

HDFS-7425. NameNode block deletion logging uses incorrect appender.

(cnauroth)

HDFS-4882. Prevent the Namenode's LeaseManager from looping forever in

checkLeases (Ravi Prakash via Colin P. McCabe)

HDFS-7489. Incorrect locking in FsVolumeList#checkDirs can hang datanodes

(Noah Lorang via Colin P. McCabe)

HDFS-7503. Namenode restart after large deletions can cause slow

processReport. (Arpit Agarwal)

HDFS-7443. Datanode upgrade to BLOCKID\_BASED\_LAYOUT fails if duplicate

block files are present in the same volume (cmccabe)

HDFS-3443. Fix NPE when namenode transition to active during startup by

adding checkNNStartup() in NameNodeRpcServer. (Vinayakumar B via szetszwo)

HDFS-7733. NFS: readdir/readdirplus return null directory

attribute on failure. (Arpit Agarwal)

HDFS-8486. DN startup may cause severe data loss. (daryn via cmccabe)

HDFS-7213. processIncrementalBlockReport performance degradation.

(Eric Payne via kihwal)

HDFS-7235. DataNode#transferBlock should report blocks that don't exist

using reportBadBlock (yzhang via cmccabe)

HDFS-7263. Snapshot read can reveal future bytes for appended files.

(Tao Luo via shv)

HDFS-7225. Remove stale block invalidation work when DN re-registers with

different UUID. (Zhe Zhang and Andrew Wang)

HDFS-7533. Datanode sometimes does not shutdown on receiving upgrade

shutdown command (Eric Payne via kihwal)

HDFS-7575. Upgrade should generate a unique storage ID for each

volume. (Arpit Agarwal)

HDFS-7707. Edit log corruption due to delayed block removal again.

(Yongjun Zhang via kihwal)

HDFS-7714. Simultaneous restart of HA NameNodes and DataNode can cause

DataNode to register successfully with only one NameNode.(vinayakumarb)

HDFS-7788. Post-2.6 namenode may not start up with an image containing

inodes created with an old release. (Rushabh Shah via kihwal)

HDFS-7009. Active NN and standby NN have different live nodes.

(Ming Ma via cnauroth)

HDFS-7763. fix zkfc hung issue due to not catching exception in a corner

case. (Liang Xie via wang)

HDFS-7871. NameNodeEditLogRoller can keep printing "Swallowing exception"

message. (jing9)

HDFS-7885. Datanode should not trust the generation stamp provided by

client. (Tsz Wo Nicholas Sze via jing9)

HDFS-7610. Fix removal of dynamically added DN volumes (Lei (Eddy) Xu via

Colin P. McCabe)

HDFS-7830. DataNode does not release the volume lock when adding a volume

fails. (Lei Xu via Colin P. Mccabe)

HDFS-7587. Edit log corruption can happen if append fails with a quota

violation. (jing9)

HDFS-7929. inotify unable fetch pre-upgrade edit log segments once upgrade

starts (Zhe Zhang via Colin P. McCabe)

HDFS-7930. commitBlockSynchronization() does not remove locations. (yliu)

HDFS-7884. Fix NullPointerException in BlockSender when the generation stamp

provided by the client is larger than the one stored in the datanode.

(Brahma Reddy Battula via szetszwo)

HDFS-7960. The full block report should prune zombie storages even if

they're not empty. (cmccabe and Eddy Xu via wang)

HDFS-7742. Favoring decommissioning node for replication can cause a block

to stay underreplicated for long periods (Nathan Roberts via kihwal)

HDFS-7999. FsDatasetImpl#createTemporary sometimes holds the FSDatasetImpl

lock for a very long time (sinago via cmccabe)

HDFS-8072. Reserved RBW space is not released if client terminates while

writing block. (Arpit Agarwal)

HDFS-8127. NameNode Failover during HA upgrade can cause DataNode to

finalize upgrade. (jing9)

HDFS-7915. The DataNode can sometimes allocate a ShortCircuitShm slot and

fail to tell the DFSClient about it because of a network error (cmccabe)

HDFS-8070. Pre-HDFS-7915 DFSClient cannot use short circuit on

post-HDFS-7915 DataNode (cmccabe)

HDFS-8219. setStoragePolicy with folder behavior is different after cluster restart.

(surendra singh lilhore via Xiaoyu Yao)

HDFS-7894. Rolling upgrade readiness is not updated in jmx until query

command is issued. (Brahma Reddy Battula via kihwal)

HDFS-8254. Standby namenode doesn't process DELETED\_BLOCK if the add block

request is in edit log. (Rushabh S Shah via kihwal)

HDFS-8404. Pending block replication can get stuck using older genstamp

(Nathan Roberts via kihwal)

HDFS-8431. hdfs crypto class not found in Windows.

(Anu Engineer via cnauroth)

HDFS-7609. Avoid retry cache collision when Standby NameNode loading edits.

(Ming Ma via jing9)

HDFS-8270. create() always retried with hardcoded timeout when file already

exists with open lease (J.Andreina via vinayakumarb)

HDFS-7980. Incremental BlockReport will dramatically slow down namenode

startup. (Walter Su via szetszwo)

HDFS-7446. HDFS inotify should have the ability to determine what txid it

has read up to (cmccabe)

HDFS-8846. Add a unit test for INotify functionality across a layout

version upgrade (Zhe Zhang via Colin P. McCabe)

HDFS-7470. SecondaryNameNode need twice memory when calling

reloadFromImageFile. (zhaoyunjiong via cnauroth)

HDFS-8863. The remaining space check in BlockPlacementPolicyDefault is

flawed. (Kihwal Lee via yliu)

HDFS-7552. Change FsVolumeList toString() to fix

TestDataNodeVolumeFailureToleration (Liang Xie via Colin P. McCabe)

Release 2.6.0 - 2014-11-18

INCOMPATIBLE CHANGES

NEW FEATURES

HDFS-6584. Support archival storage. (See breakdown of tasks below for

features and contributors)

HDFS-6581. Support writing to a single replica in RAM. (See breakdown of

tasks below for features and contributors).

IMPROVEMENTS

HDFS-6613. Improve logging in caching classes. (wang)

HDFS-6511. BlockManager#computeInvalidateWork() could do nothing. (Juan Yu via wang)

HDFS-6638. Shorten test run time with a smaller retry timeout setting.

(Liang Xie via cnauroth)

HDFS-6627. Rename DataNode#checkWriteAccess to checkReadAccess.

(Liang Xie via cnauroth)

HDFS-6645. Add test for successive Snapshots between XAttr modifications.

(Stephen Chu via jing9)

HDFS-6643. Refactor INodeWithAdditionalFields.PermissionStatusFormat and

INodeFile.HeaderFormat. (szetszwo)

HDFS-6640. Syntax for MKDIRS, CREATESYMLINK, and SETXATTR are given wrongly

in WebHdfs document (missed webhdfs/v1). (Stephen Chu via jing9)

HDFS-5202. Support Centralized Cache Management on Windows. (cnauroth)

HDFS-2976. Remove unnecessary method (tokenRefetchNeeded) in DFSClient.

(Uma Maheswara Rao G)

HDFS-3851. DFSOutputStream class code cleanup. (Jing Zhao via suresh)

HDFS-2856. Fix block protocol so that Datanodes don't require root or jsvc.

(cnauroth)

HDFS-5624. Add HDFS tests for ACLs in combination with viewfs.

(Stephen Chu via cnauroth)

HDFS-6655. Add 'header banner' to 'explorer.html' also in Namenode UI

(vinayakumarb)

HDFS-4120. Add a new "-skipSharedEditsCheck" option for BootstrapStandby

(Liang Xie and Rakesh R via vinayakumarb)

HDFS-6597. Add a new option to NN upgrade to terminate the process after

upgrade on NN is completed. (Danilo Vunjak via cnauroth)

HDFS-6700. BlockPlacementPolicy shoud choose storage but not datanode for

deletion. (szetszwo)

HDFS-6616. Add exclude-datanodes feature to WebHDFS redirection so that it

will not redirect retries to the same datanode. (zhaoyunjiong via szetszwo)

HDFS-6702. Change DFSClient to pass the StorageType from the namenode to

datanodes and change datanode to write block replicas using the specified

storage type. (szetszwo)

HDFS-6701. Make seed optional in NetworkTopology#sortByDistance.

(Ashwin Shankar via wang)

HDFS-6755. There is an unnecessary sleep in the code path where

DFSOutputStream#close gives up its attempt to contact the namenode

(mitdesai21 via cmccabe)

HDFS-6750. The DataNode should use its shared memory segment to mark

short-circuit replicas that have been unlinked as stale (cmccabe)

HDFS-6739. Add getDatanodeStorageReport to ClientProtocol. (szetszwo)

HDFS-6665. Add tests for XAttrs in combination with viewfs.

(Stephen Chu via wang)

HDFS-6778. The extended attributes javadoc should simply refer to the

user docs. (clamb via wang)

HDFS-6570. add api that enables checking if a user has certain permissions on

a file. (Jitendra Pandey via cnauroth)

HDFS-6441. Add ability to exclude/include specific datanodes while

balancing. (Benoy Antony and Yu Li via Arpit Agarwal)

HDFS-6685. Balancer should preserve storage type of replicas. (szetszwo)

HDFS-6798. Add test case for incorrect data node condition during

balancing. (Benoy Antony via Arpit Agarwal)

HDFS-6796. Improve the argument check during balancer command line parsing.

(Benoy Antony via szetszwo)

HDFS-6794. Update BlockManager methods to use DatanodeStorageInfo

where possible (Arpit Agarwal)

HDFS-6802. Some tests in TestDFSClientFailover are missing @Test

annotation. (Akira Ajisaka via wang)

HDFS-6788. Improve synchronization in BPOfferService with read write lock.

(Yongjun Zhang via wang)

HDFS-6787. Remove duplicate code in FSDirectory#unprotectedConcat. (Yi Liu via umamahesh)

HDFS-6809. Move Balancer's inner classes MovedBlocks and Matcher as to

standalone classes and separates KeyManager from NameNodeConnector.

(szetszwo)

HDFS-6812. Remove addBlock and replaceBlock from DatanodeDescriptor.

(szetszwo)

HDFS-6781. Separate HDFS commands from CommandsManual.apt.vm. (Akira

Ajisaka via Arpit Agarwal)

HDFS-6728. Dynamically add new volumes to DataStorage, formatted if

necessary. (Lei Xu vi atm)

HDFS-6740. Make FSDataset support adding data volumes dynamically. (Lei

Xu via atm)

HDFS-6722. Display readable last contact time for dead nodes on NN webUI.

(Ming Ma via wheat9)

HDFS-6772. Get DN storages out of blockContentsStale state faster after

NN restarts. (Ming Ma via Arpit Agarwal)

HDFS-573. Porting libhdfs to Windows. (cnauroth)

HDFS-6828. Separate block replica dispatching from Balancer. (szetszwo via

jing9)

HDFS-6837. Code cleanup for Balancer and Dispatcher. (szetszwo via

jing9)

HDFS-6838. Code cleanup for unnecessary INode replacement.

(Jing Zhao via wheat9)

HDFS-6836. HDFS INFO logging is verbose & uses file appenders. (Xiaoyu

Yao via Arpit Agarwal)

HDFS-6567. Normalize the order of public final in HdfsFileStatus.

(Tassapol Athiapinya via wheat9)

HDFS-6849. Replace HttpFS custom proxyuser handling with common

implementation. (tucu)

HDFS-6850. Move NFS out of order write unit tests into TestWrites class.

(Zhe Zhang via atm)

HDFS-6188. An ip whitelist based implementation of TrustedChannelResolver.

(Benoy Antony via Arpit Agarwal)

HDFS-6858. Allow dfs.data.transfer.saslproperties.resolver.class default to

hadoop.security.saslproperties.resolver.class. (Benoy Antony via cnauroth)

HDFS-6878. Change MiniDFSCluster to support StorageType configuration

for individual directories. (Arpit Agarwal)

HDFS-6758. block writer should pass the expected block size to

DataXceiverServer. (Arpit Agarwal)

HDFS-6899. Allow changing MiniDFSCluster volumes per DN and capacity

per volume. (Arpit Agarwal)

HDFS-4486. Add log category for long-running DFSClient notices (Zhe Zhang

via Colin Patrick McCabe)

HDFS-6879. Adding tracing to Hadoop RPC (Masatake Iwasaki via Colin Patrick

McCabe)

HDFS-6774. Make FsDataset and DataStore support removing volumes. (Lei Xu

via atm)

HDFS-6634. inotify in HDFS. (James Thomas via wang)

HDFS-4257. The ReplaceDatanodeOnFailure policies could have a forgiving

option (szetszwo via cmccabe)

HDFS-6959. Make the HDFS home directory location customizable. (yzhang via

cmccabe)

HDFS-6609. Use DirectorySnapshottableFeature to represent a snapshottable

directory. (Jing Zhao via wheat9)

HDFS-6886. Use single editlog record for creating file + overwrite. (Yi Liu

via jing9)

HDFS-6376. Distcp data between two HA clusters requires another configuration.

(Dave Marion and Haohui Mai via jing9)

HDFS-6943. Improve NN allocateBlock log to include replicas' datanode IPs.

(Ming Ma via wheat9)

HDFS-6036. Forcibly timeout misbehaving DFSClients that try to do

no-checksum reads that extend too long (cmccabe)

HDFS-6482. Use block ID-based block layout on datanodes (James Thomas via

Colin Patrick McCabe)

HDFS-7061. Add test to verify encryption zone creation after NameNode

restart without saving namespace. (Stephen Chu via wang)

HDFS-7059. HAadmin transtionToActive with forceActive option can show

confusing message.

HDFS-6880. Adding tracing to DataNode data transfer protocol. (iwasakims

via cmccabe)

HDFS-7006. Test encryption zones with KMS. (Anthony Young-Garner and tucu)

HDFS-6851. Refactor EncryptionZoneWithId and EncryptionZone. (clamb via wang)

HDFS-6705. Create an XAttr that disallows the HDFS admin from accessing a

file. (clamb via wang)

HDFS-6843. Create FileStatus isEncrypted() method (clamb via cmccabe)

HDFS-7004. Update KeyProvider instantiation to create by URI. (wang)

HDFS-7047. Expose FileStatus#isEncrypted in libhdfs (cmccabe)

HDFS-7003. Add NFS Gateway support for reading and writing to

encryption zones. (clamb via wang)

HDFS-6727. Refresh data volumes on DataNode based on configuration changes

(Lei Xu via cmccabe)

HDFS-6970. Move startFile EDEK retries to the DFSClient. (wang)

HDFS-6948. DN rejects blocks if it has older UC block

(Eric Payne via kihwal)

HDFS-6987. Move CipherSuite xattr information up to the encryption zone

root. (Zhe Zhang via wang)

HDFS-7139. Unit test for creating encryption zone on root path. (Zhe Zhang via wang)

HDFS-7138. Fix hftp to work with encryption. (clamb via wang)

HDFS-7118. Improve diagnostics on storage directory rename operations by

using NativeIO#renameTo in Storage#rename. (cnauroth)

HDFS-6808. Add command line option to ask DataNode reload configuration.

(Lei Xu via Colin Patrick McCabe)

HDFS-7119. Split error checks in AtomicFileOutputStream#close into separate

conditions to improve diagnostics. (cnauroth)

HDFS-7077. Separate CipherSuite from crypto protocol version. (wang)

HDFS-6956. Allow dynamically changing the tracing level in Hadoop servers

(cmccabe)

HDFS-7156. Update fsck documentation. (Masahiro Yamaguch via shv)

HDFS-7093. Add config key to restrict setStoragePolicy. (Arpit Agarwal)

HDFS-6519. Document oiv\_legacy command (Akira AJISAKA via aw)

HDFS-4165. Faulty sanity check in FsDirectory.unprotectedSetQuota.

(Binglin Chang via suresh)

HDFS-7104. Fix and clarify INodeInPath getter functions. (Zhe Zhang via wang)

HDFS-7124. Remove EncryptionZoneManager.NULL\_EZ. (clamb via wang)

HDFS-6779. Add missing version subcommand for hdfs.

(Sasaki Toru via wheat9)

HDFS-7153. Add storagePolicy to NN edit log during file creation.

(Arpit Agarwal)

HDFS-7158. Reduce the memory usage of WebImageViewer. (wheat9)

HDFS-6894. Add XDR parser method for each NFS response.

(Brandon Li via wheat9)

HDFS-7217. Better batching of IBRs. (kihwal)

HDFS-7195. Update user doc of secure mode about Datanodes don't require root

or jsvc. (cnauroth)

HDFS-7228. Add an SSD policy into the default BlockStoragePolicySuite.

(jing9)

HDFS-6904. YARN unable to renew delegation token fetched via webhdfs

due to incorrect service port. (jitendra)

HDFS-6988. Improve HDFS-6581 eviction configuration (Xiaoyu Yao via Colin

P. McCabe)

HDFS-7230. Add rolling downgrade documentation. (szetszwo via jing9)

HDFS-6385. Show when block deletion will start after NameNode startup in

WebUI. (cnauroth)

HDFS-7313. Support optional configuration of AES cipher suite on

DataTransferProtocol. (cnauroth)

HDFS-7276. Limit the number of byte arrays used by DFSOutputStream and

provide a mechanism for recycling arrays. (szetszwo)

HDFS-7233. NN logs unnecessary org.apache.hadoop.hdfs.protocol.UnresolvedPathException.

(Rushabh S Shah via jing9)

HDFS-7221. TestDNFencingWithReplication fails consistently. (Charles Lamb via wang)

OPTIMIZATIONS

HDFS-6690. Deduplicate xattr names in memory. (wang)

HDFS-6773. MiniDFSCluster should skip edit log fsync by default (Stephen

Chu via Colin Patrick McCabe)

HDFS-6865. Byte array native checksumming on client side

(James Thomas via todd)

HDFS-7122. Use of ThreadLocal<Random> results in poor block placement.

(wang)

HDFS-6606. Optimize HDFS Encrypted Transport performance. (yliu)

BUG FIXES

HDFS-7309. XMLUtils.mangleXmlString doesn't seem to handle less than sign

(Colin Patrick McCabe via raviprak)

HDFS-6823. dfs.web.authentication.kerberos.principal shows up in logs for

insecure HDFS (Allen Wittenauer via raviprak)

HDFS-6517. Remove hadoop-metrics2.properties from hdfs project (Akira

AJISAKA via aw)

HDFS-6617. Flake TestDFSZKFailoverController.testManualFailoverWithDFSHAAdmin

due to a long edit log sync op. (Liang Xie via cnauroth)

HDFS-6646. [ HDFS Rolling Upgrade - Shell ] shutdownDatanode and getDatanodeInfo

usage is missed ( Brahma Reddy Battula via vinayakumarb)

HDFS-6630. Unable to fetch the block information by Browsing the file system on

Namenode UI through IE9 ( Haohui Mai via vinayakumarb)

HADOOP-8158. Interrupting hadoop fs -put from the command line

causes a LeaseExpiredException. (daryn via harsh)

HDFS-6678. MiniDFSCluster may still be partially running after initialization

fails. (cnauroth)

HDFS-5809. BlockPoolSliceScanner and high speed hdfs appending make

datanode to drop into infinite loop (cmccabe)

HDFS-6456. NFS should throw error for invalid entry in

dfs.nfs.exports.allowed.hosts (Abhiraj Butala via brandonli)

HDFS-6689. NFS doesn't return correct lookup access for direcories (brandonli)

HDFS-6478. RemoteException can't be retried properly for non-HA scenario.

(Ming Ma via jing9)

HDFS-6693. TestDFSAdminWithHA fails on windows ( vinayakumarb )

HDFS-6667. In HDFS HA mode, Distcp/SLive with webhdfs on secure cluster fails

with Client cannot authenticate via:[TOKEN, KERBEROS] error. (jing9)

HDFS-6704. Fix the command to launch JournalNode in HDFS-HA document.

(Akira AJISAKA via jing9)

HDFS-6731. Run "hdfs zkfc-formatZK" on a server in a non-namenode will cause

a null pointer exception. (Masatake Iwasaki via brandonli)

HDFS-6114. Block Scan log rolling will never happen if blocks written

continuously leading to huge size of dncp\_block\_verification.log.curr

(vinayakumarb via cmccabe)

HDFS-6455. NFS: Exception should be added in NFS log for invalid separator in

nfs.exports.allowed.hosts. (Abhiraj Butala via brandonli)

HDFS-6715. Webhdfs wont fail over when it gets java.io.IOException: Namenode

is in startup mode. (jing9)

HDFS-5919. FileJournalManager doesn't purge empty and corrupt inprogress edits

files (vinayakumarb)

HDFS-6752. Avoid Address bind errors in TestDatanodeConfig#testMemlockLimit

(vinayakumarb)

HDFS-6749. FSNamesystem methods should call resolvePath.

(Charles Lamb via cnauroth)

HDFS-4629. Using com.sun.org.apache.xml.internal.serialize.\* in

XmlEditsVisitor.java is JVM vendor specific. Breaks IBM JAVA.

(Amir Sanjar via stevel)

HDFS-3482. hdfs balancer throws ArrayIndexOutOfBoundsException

if option is specified without values. ( Madhukara Phatak via umamahesh)

HDFS-6797. DataNode logs wrong layoutversion during upgrade. (Benoy Antony

via Arpit Agarwal)

HDFS-6810. StorageReport array is initialized with wrong size in

DatanodeDescriptor#getStorageReports. (szetszwo via Arpit Agarwal)

HDFS-5723. Append failed FINALIZED replica should not be accepted as valid

when that block is underconstruction (vinayakumarb)

HDFS-5185. DN fails to startup if one of the data dir is full. (vinayakumarb)

HDFS-6451. NFS should not return NFS3ERR\_IO for AccessControlException

(Abhiraj Butala via brandonli)

HDFS-6717. JIRA HDFS-5804 breaks default nfs-gateway behavior for unsecured config

(brandonli)

HDFS-6790. DFSUtil Should Use configuration.getPassword for SSL passwords

(Larry McCay via brandonli)

HDFS-6791. A block could remain under replicated if all of its replicas are on

decommissioned nodes. (Ming Ma via jing9)

HDFS-6582. Missing null check in RpcProgramNfs3#read(XDR, SecurityHandler)

(Abhiraj Butala via brandonli)

HDFS-6830. BlockInfo.addStorage fails when DN changes the storage for a

block replica (Arpit Agarwal)

HDFS-6247. Avoid timeouts for replaceBlock() call by sending intermediate

responses to Balancer (vinayakumarb)

HDFS-6783. Fix HDFS CacheReplicationMonitor rescan logic. (Yi Liu and Colin Patrick McCabe via umamahesh)

HDFS-6825. Edit log corruption due to delayed block removal.

(Yongjun Zhang via wang)

HDFS-6569. OOB message can't be sent to the client when DataNode shuts down for upgrade

(brandonli)

HDFS-6868. portmap and nfs3 are documented as hadoop commands instead of hdfs

(brandonli)

HDFS-6870. Blocks and INodes could leak for Rename with overwrite flag. (Yi

Liu via jing9)

HDFS-6890. NFS readdirplus doesn't return dotdot attributes (brandonli)

HDFS-6829. DFSAdmin refreshSuperUserGroupsConfiguration failed in

security cluster (zhaoyunjiong via Arpit Agarwal)

HDFS-4852. libhdfs documentation is out of date. (cnauroth)

HDFS-6908. Incorrect snapshot directory diff generated by snapshot deletion.

(Juan Yu and jing9 via jing9)

HDFS-6892. Add XDR packaging method for each NFS request (brandonli)

HDFS-6902. FileWriter should be closed in finally block in

BlockReceiver#receiveBlock() (Tsuyoshi OZAWA via Colin Patrick McCabe)

HDFS-6972. TestRefreshUserMappings.testRefreshSuperUserGroupsConfiguration

doesn't decode url correctly. (Yongjun Zhang via wang)

HDFS-6942. Fix typos in log messages. (Ray Chiang via wheat9)

HDFS-6848. Lack of synchronization on access to datanodeUuid in

DataStorage#format(). (Xiaoyu Yao via Arpit Agarwal)

HDFS-6996. SnapshotDiff report can hit IndexOutOfBoundsException when there

are nested renamed directory/file. (jing9)

HDFS-6831. Inconsistency between 'hdfs dfsadmin' and 'hdfs dfsadmin -help'.

(Xiaoyu Yao via Arpit Agarwal)

HDFS-6979. hdfs.dll does not produce .pdb files. (cnauroth)

HDFS-6862. Add missing timeout annotations to tests. (Xiaoyu Yao via

Arpit Agarwal)

HDFS-6898. DN must reserve space for a full block when an RBW block is

created. (Arpit Agarwal)

HDFS-7025. HDFS Credential Provider related Unit Test Failure.

(Xiaoyu Yao via cnauroth)

HDFS-7005. DFS input streams do not timeout.

HDFS-6951. Correctly persist raw namespace xattrs to edit log and fsimage.

(clamb via wang)

HDFS-6800. Support Datanode layout changes with rolling upgrade.

(James Thomas via Arpit Agarwal)

HDFS-6981. Fix DN upgrade with layout version change. (Arpit Agarwal)

HDFS-6506. Newly moved block replica been invalidated and deleted in

TestBalancer. (Binglin Chang via cnauroth)

HDFS-6966. Add additional unit tests for encryption zones.

(Stephen Chu via wang)

HDFS-6621. Hadoop Balancer prematurely exits iterations.

(Rafal Wojdyla and Benjamin Bowman via wang)

HDFS-7045. Fix NameNode deadlock when opening file under /.reserved path.

(Yi Liu via wang)

HDFS-7032. Add WebHDFS support for reading and writing to encryption zones.

(clamb via wang)

HDFS-6965. NN continues to issue block locations for DNs with full disks.

(Rushabh Shah via kihwal)

HDFS-6789. TestDFSClientFailover.testFileContextDoesntDnsResolveLogicalURI

and TestDFSClientFailover.testDoesntDnsResolveLogicalURI failing on jdk7.

(Akira Ajisaka via wang)

HDFS-6912. SharedFileDescriptorFactory should not allocate sparse files

(cmccabe)

HDFS-7075. hadoop-fuse-dfs fails because it cannot find

JavaKeyStoreProvider$Factory (cmccabe)

HDFS-7078. Fix listEZs to work correctly with snapshots. (wang)

HDFS-6840. Clients are always sent to the same datanode when read

is off rack. (wang)

HDFS-7065. Pipeline close recovery race can cause block corruption (kihwal)

HDFS-7096. Fix TestRpcProgramNfs3 to use DFS\_ENCRYPTION\_KEY\_PROVIDER\_URI

(clamb via cmccabe)

HDFS-7046. HA NN can NPE upon transition to active. (kihwal)

HDFS-7106. Reconfiguring DataNode volumes does not release the lock files

in removed volumes. (cnauroth via cmccabe)

HDFS-7001. Tests in TestTracing depends on the order of execution

(iwasakims via cmccabe)

HDFS-7132. hdfs namenode -metadataVersion command does not honor

configured name dirs. (Charles Lamb via wang)

HDFS-7049. TestByteRangeInputStream.testPropagatedClose fails and throw

NPE on branch-2. (Juan Yu via wheat9)

HDFS-7148. TestEncryptionZones#testIsEncryptedMethod fails on branch-2

after archival storage merge. (wang)

HDFS-7157. Using Time.now() for recording start/end time of reconfiguration

tasks (Lei Xu via cmccabe)

HDFS-6664. HDFS permissions guide documentation states incorrect default

group mapping class. (Ray Chiang via aw)

HDFS-4227. Document dfs.namenode.resource.\* (Daisuke Kobayashi via aw)

HDFS-6754. TestNamenodeCapacityReport may sometimes fail due to lack of

retry. (Mit Desai via kihwal)

HDFS-7178. Additional unit test for replica write with full disk.

(Arpit Agarwal)

HDFS-7179. DFSClient should instantiate a KeyProvider, not a

KeyProviderCryptoExtension. (wang)

HDFS-7181. Remove incorrect precondition check on key length in

FileEncryptionInfo. (wang)

HDFS-7162. Wrong path when deleting through fuse-dfs a file which already

exists in trash (Chenging Liu via cmccabe)

HDFS-7176. The namenode usage message doesn't include "-rollingupgrade

started" (cmccabe)

HDFS-7172. Test data files may be checked out of git with incorrect line

endings, causing test failures in TestHDFSCLI. (Chris Nauroth via wheat9)

HDFS-7203. Concurrent appending to the same file can cause data corruption

(kihwal)

HDFS-7236. Fix TestOpenFilesWithSnapshot#testOpenFilesWithMultipleSnapshots.

(Yongjun Zhang via jing9)

HDFS-6544. Broken Link for GFS in package.html. (Suraj Nayak M via wheat9)

HDFS-7237. The command "hdfs namenode -rollingUpgrade" throws

ArrayIndexOutOfBoundsException. (szetszwo)

HDFS-7185. The active NameNode will not accept an fsimage sent from the

standby during rolling upgrade. (jing9)

HDFS-7208. NN doesn't schedule replication when a DN storage fails.

(Ming Ma via szetszwo)

HDFS-5089. When a LayoutVersion support SNAPSHOT, it must support

FSIMAGE\_NAME\_OPTIMIZATION. (szetszwo)

HDFS-7260. Change DFSOutputStream.MAX\_PACKETS to be configurable. (szetszwo)

HDFS-7259. Unresponseive NFS mount point due to deferred COMMIT response.

(brandonli)

HDFS-7215.Add JvmPauseMonitor to NFS gateway (brandonli)

HDFS-7180. NFSv3 gateway frequently gets stuck due to GC (brandonli)

HDFS-7243. HDFS concat operation should not be allowed in Encryption Zone.

(clamb via yliu)

HADOOP-11233. hadoop.security.kms.client.encrypted.key.cache.expiry

property spelled wrong in core-default. (Stephen Chu via yliu)

HDFS-7218. FSNamesystem ACL operations should write to audit log on

failure. (clamb via yliu)

HDFS-7199. DFSOutputStream should not silently drop data if DataStreamer

crashes with an unchecked exception (rushabhs via cmccabe)

HDFS-7383. DataNode.requestShortCircuitFdsForRead may throw

NullPointerException. (szetszwo via suresh)

HDFS-7147. Update archival storage user documentation.

(Tsz Wo Nicholas Sze via wheat9)

HDFS-7340. Make rollingUpgrade start/finalize idempotent. (jing9)

HDFS-7334. Fix periodic failures of TestCheckpoint

#testTooManyEditReplayFailures. (Charles Lamb via wheat9)

HDFS-7355. TestDataNodeVolumeFailure#testUnderReplicationAfterVolFailure

fails on Windows, because we cannot deny access to the file owner.

(Chris Nauroth via wheat9)

HDFS-7367. HDFS short-circuit read cannot negotiate shared memory slot and

file descriptors when SASL is enabled on DataTransferProtocol.

(Chris Nauroth via wheat9)

HDFS-7364. Balancer always shows zero Bytes Already Moved.

(Tsz Wo Nicholas Sze via jing9)

HDFS-7379. TestBalancer#testBalancerWithRamDisk creates test files

incorrectly. (Xiaoyu Yao via wheat9)

BREAKDOWN OF HDFS-6134 AND HADOOP-10150 SUBTASKS AND RELATED JIRAS

HDFS-6387. HDFS CLI admin tool for creating & deleting an

encryption zone. (clamb)

HDFS-6386. HDFS Encryption Zones (clamb)

HDFS-6388. HDFS integration with KeyProvider. (clamb)

HDFS-6473. Protocol and API for Encryption Zones (clamb)

HDFS-6392. Wire crypto streams for encrypted files in

DFSClient. (clamb and yliu)

HDFS-6476. Print out the KeyProvider after finding KP successfully on

startup. (Juan Yu via wang)

HDFS-6391. Get the Key/IV from the NameNode for encrypted files in

DFSClient. (Charles Lamb and wang)

HDFS-6389. Rename restrictions for encryption zones. (clamb)

HDFS-6605. Client server negotiation of cipher suite. (wang)

HDFS-6625. Remove the Delete Encryption Zone function (clamb)

HDFS-6516. List of Encryption Zones should be based on inodes (clamb)

HDFS-6629. Not able to create symlinks after HDFS-6516 (umamaheswararao)

HDFS-6635. Refactor encryption zone functionality into new

EncryptionZoneManager class. (wang)

HDFS-6474. Namenode needs to get the actual keys and iv from the

KeyProvider. (wang)

HDFS-6619. Clean up encryption-related tests. (wang)

HDFS-6405. Test Crypto streams in HDFS. (yliu via wang)

HDFS-6490. Fix the keyid format for generated keys in

FSNamesystem.createEncryptionZone (clamb)

HDFS-6716. Update usage of KeyProviderCryptoExtension APIs on NameNode.

(wang)

HDFS-6718. Remove EncryptionZoneManager lock. (wang)

HDFS-6720. Remove KeyProvider in EncryptionZoneManager. (wang)

HDFS-6738. Remove unnecessary getEncryptionZoneForPath call in

EZManager#createEncryptionZone. (clamb)

HDFS-6724. Decrypt EDEK before creating

CryptoInputStream/CryptoOutputStream. (wang)

HDFS-6509. Create a special /.reserved/raw directory for raw access to

encrypted data. (clamb via wang)

HDFS-6771. Require specification of an encryption key when creating

an encryption zone. (wang)

HDFS-6730. Create a .RAW extended attribute namespace. (clamb)

HDFS-6692. Add more HDFS encryption tests. (wang)

HDFS-6780. Batch the encryption zones listing API. (wang)

HDFS-6394. HDFS encryption documentation. (wang)

HDFS-6834. Improve the configuration guidance in DFSClient when there

are no Codec classes found in configs. (umamahesh)

HDFS-6546. Add non-superuser capability to get the encryption zone

for a specific path. (clamb)

HDFS-6733. Creating encryption zone results in NPE when

KeyProvider is null. (clamb)

HDFS-6785. Should not be able to create encryption zone using path

to a non-directory file. (clamb)

HDFS-6807. Fix TestReservedRawPaths. (clamb)

HDFS-6814. Mistakenly dfs.namenode.list.encryption.zones.num.responses configured

as boolean. (umamahesh)

HDFS-6817. Fix findbugs and other warnings. (yliu)

HDFS-6839. Fix TestCLI to expect new output. (clamb)

HDFS-6954. With crypto, no native lib systems are too verbose. (clamb via wang)

HDFS-2975. Rename with overwrite flag true can make NameNode to stuck in safemode

on NN (crash + restart). (Yi Liu via umamahesh)

HDFS-6905. fs-encryption merge triggered release audit failures. (clamb via tucu)

HDFS-6714. TestBlocksScheduledCounter#testBlocksScheduledCounter should

shutdown cluster (vinayakumarb)

HDFS-6986. DistributedFileSystem must get delegation tokens from configured

KeyProvider. (zhz via tucu)

HDFS-6776. Using distcp to copy data between insecure and secure cluster via webdhfs

doesn't work. (yzhangal via tucu)

HDFS-7042. Upgrade fails for Windows HA cluster due to file locks held during

rename in JournalNode. (cnauroth)

HDFS-7051. TestDataNodeRollingUpgrade#isBlockFileInPrevious assumes Unix file

path separator. (cnauroth)

HDFS-7105. Fix TestJournalNode#testFailToStartWithBadConfig to match log

output change. (Ray Chiang via cnauroth)

HDFS-7105. Allow falling back to a non-SASL connection on

DataTransferProtocol in several edge cases. (cnauroth)

HDFS-7107. Avoid Findbugs warning for synchronization on

AbstractNNFailoverProxyProvider#fallbackToSimpleAuth. (cnauroth)

HDFS-7109. TestDataStorage does not release file locks between tests.

(cnauroth)

HDFS-7110. Skip tests related to short-circuit read on platforms that do not

currently implement short-circuit read. (cnauroth)

HDFS-7115. TestEncryptionZones assumes Unix path separator for KMS key store

path. (Xiaoyu Yao via cnauroth)

HDFS-7115. TestEncryptionZonesWithHA assumes Unix path separator for KMS key

store path. (Xiaoyu Yao via cnauroth)

HDFS-7130. TestDataTransferKeepalive fails intermittently on Windows.

(cnauroth)

HDFS-6534. Fix build on macosx: HDFS parts (Binglin Chang via aw)

HDFS-7111. TestSafeMode assumes Unix line endings in safe mode tip.

(cnauroth)

HDFS-7127. TestLeaseRecovery leaks MiniDFSCluster instances. (cnauroth)

HDFS-7131. During HA upgrade, JournalNode should create a new committedTxnId

file in the current directory. (jing9)

HDFS-6995. Block should be placed in the client's 'rack-local' node

if 'client-local' node is not available (vinayakumarb)

HDFS-7128. Decommission slows way down when it gets towards the end.

(Ming Ma via cnauroth)

HDFS-7287. The OfflineImageViewer (OIV) can output invalid XML depending on

the filename (Ravi Prakash via Colin P. McCabe)

HDFS-7300. The getMaxNodesPerRack() method in BlockPlacementPolicyDefault

is flawed (kihwal)

HDFS-7305. NPE seen in wbhdfs FS while running SLive. (jing9)

HDFS-7199. DFSOutputStream should not silently drop data if DataStreamer

crashes with an unchecked exception (rushabhs via cmccabe)

BREAKDOWN OF HDFS-6584 ARCHIVAL STORAGE

HDFS-6677. Change INodeFile and FSImage to support storage policy ID.

(szetszwo)

HDFS-6670. Add block storage policy support with default HOT, WARM and COLD

policies. (szetszwo)

HDFS-6671. Change BlockPlacementPolicy to consider block storage policy

in replicaiton. (szetszwo)

HDFS-6710. Change BlockPlacementPolicy to consider block storage policy

in replica deletion. (szetszwo)

HDFS-6679. Bump NameNodeLayoutVersion and update editsStored test files.

(vinayakumarb via szetszwo)

HDFS-6686. Change BlockPlacementPolicy to use fallback when some storage

types are unavailable. (szetszwo)

HDFS-6835. Add a new API to set storage policy. (jing9)

HDFS-6847. Support storage policy on directories and include storage policy

in HdfsFileStatus. (Jing Zhao via szetszwo)

HDFS-6801. Add a new data migration tool, Mover, for archiving data.

(szetszwo via jing9)

HDFS-6863. Support migration for snapshot paths. (jing9)

HDFS-6906. Add more tests for BlockStoragePolicy. (szetszwo via jing9)

HDFS-6911. check if a block is already scheduled in Mover.

(szetszwo via jing9)

HDFS-6920. Check the storage type of delNodeHintStorage when deleting

a replica. (szetszwo via jing9)

HDFS-6944. Add retry and termination logic for Mover. (jing9)

HDFS-6969. INode#getStoragePolicyID should always return the latest

storage policy. (jing9)

HDFS-6961. BlockPlacementPolicy#chooseTarget should check each valid

storage type in each choosing round. (jing9)

HDFS-6876. support set/get storage policy in DFSAdmin. (jing9)

HDFS-6997. Add more tests for data migration and replicaion. (szetszwo)

HDFS-6875. Support migration for a list of specified paths. (jing9)

HDFS-7027. Mover does not terminate when some storage type is out of space.

(szetszwo via jing9)

HDFS-7029. Fix TestDFSInotifyEventInputStream and TestDistributedFileSystem.

(szetszwo via jing9)

HDFS-7028. FSDirectory should not get storage policy id from symlinks.

(szetszwo)

HDFS-7034. Fix TestBlockPlacement and TestStorageMover. (jing9)

HDFS-7039. Fix Balancer tests. (szetszwo via jing9)

HDFS-7062. Skip under construction block for migration. (jing9)

HDFS-7052. Add Mover into hdfs script. (jing9)

HDFS-7072. Fix TestBlockManager and TestStorageMover. (jing9 via szetszwo)

HDFS-6864. Archival Storage: add user documentation. (szetszwo via jing9)

HDFS-7088. Archival Storage: fix TestBalancer and

TestBalancerWithMultipleNameNodes. (szetszwo via jing9)

HDFS-7095. TestStorageMover often fails in Jenkins. (jing9)

HDFS-7081. Add new DistributedFileSystem API for getting all the existing

storage policies. (jing9)

HDFS-7140. Add a tool to list all the existing block storage policies.

(jing9)

HDFS-7167. NPE while running Mover if the given path is for a file. (jing9)

HDFS-7154. Fix returning value of starting reconfiguration task (Lei Xu via

Colin P. McCabe)

BREAKDOWN OF HDFS-6581 SUBTASKS AND RELATED JIRAS

HDFS-6921. Add LazyPersist flag to FileStatus. (Arpit Agarwal)

HDFS-6924. Add new RAM\_DISK storage type. (Arpit Agarwal)

HDFS-6922. Add LazyPersist flag to INodeFile, save it in FsImage and

edit logs. (Arpit Agarwal)

HDFS-6923. Propagate LazyPersist flag to DNs via DataTransferProtocol.

(Arpit Agarwal)

HDFS-6925. DataNode should attempt to place replicas on transient storage

first if lazyPersist flag is received. (Arpit Agarwal)

HDFS-6926. DN support for saving replicas to persistent storage and

evicting in-memory replicas. (Arpit Agarwal)

HDFS-6927. Initial unit tests for lazy persist files. (Arpit Agarwal)

HDFS-6929. NN periodically unlinks lazy persist files with missing

replicas from namespace. (Arpit Agarwal)

HDFS-6928. 'hdfs put' command should accept lazyPersist flag for testing.

(Arpit Agarwal)

HDFS-6960. Bugfix in LazyWriter, fix test case and some refactoring.

(Arpit Agarwal)

HDFS-6931. Move lazily persisted replicas to finalized directory on DN

startup. (Arpit Agarwal)

HDFS-6950. Add Additional unit tests for HDFS-6581. (Xiaoyu Yao via

Arpit Agarwal)

HDFS-6930. Improve replica eviction from RAM disk. (Arpit Agarwal)

HDFS-6977. Delete all copies when a block is deleted from the block space.

(Arpit Agarwal)

HDFS-6991. Notify NN of evicted block before deleting it from RAM disk.

(Arpit Agarwal)

HDFS-6978. Directory scanner should correctly reconcile blocks on RAM

disk. (Arpit Agarwal)

HDFS-7066. LazyWriter#evictBlocks misses a null check for replicaState.

(Xiaoyu Yao via Arpit Agarwal)

HDFS-7064. Fix unit test failures in HDFS-6581 branch. (Xiaoyu Yao via

Arpit Agarwal)

HDFS-6581. Few more unit test fixes for HDFS-6581. (Arpit Agarwal)

HDFS-7080. Fix finalize and upgrade unit test failures. (Arpit Agarwal)

HDFS-7084. FsDatasetImpl#copyBlockFiles debug log can be improved.

(Xiaoyu Yao via Arpit Agarwal)

HDFS-7091. Add forwarding constructor for INodeFile for existing callers.

(Arpit Agarwal)

HDFS-7100. Make eviction scheme pluggable. (Arpit Agarwal)

HDFS-7108. Fix unit test failures in SimulatedFsDataset. (Arpit Agarwal)

HDFS-7071. Updated editsStored and editsStored.xml to bump layout

version and add LazyPersist flag. (Xiaoyu Yao and Arpit Agarwal via

Arpit Agarwal)

HDFS-6990. Add unit test for evict/delete RAM\_DISK block with open

handle. (Xiaoyu Yao via Arpit Agarwal)

HDFS-7143. Fix findbugs warnings in HDFS-6581 branch. (szetszwo via

Arpit Agarwal)

HDFS-6932. Balancer and Mover tools should ignore replicas on RAM\_DISK.

(Xiaoyu Yao via Arpit Agarwal)

HDFS-7144. Fix findbugs warnings in RamDiskReplicaTracker. (szetszwo via

Arpit Agarwal)

HDFS-7155. Bugfix in createLocatedFileStatus caused by bad merge.

(Arpit Agarwal)

HDFS-7153. Add storagePolicy to NN edit log during file creation.

(Arpit Agarwal)

HDFS-7159. Use block storage policy to set lazy persist preference.

(Arpit Agarwal)

HDFS-7129. Metrics to track usage of memory for writes. (Xiaoyu Yao

via Arpit Agarwal)

HDFS-7171. Fix Jenkins failures in HDFS-6581 branch. (Arpit Agarwal)

HDFS-7112. LazyWriter should use either async IO or one thread per physical

disk. (Xiaoyu Yao via cnauroth)

HDFS-7090. Use unbuffered writes when persisting in-memory replicas.

(Xiaoyu Yao via cnauroth)

HDFS-6934. Move checksum computation off the hot path when writing to RAM

disk. (cnauroth)

HDFS-7291. Persist in-memory replicas with appropriate unbuffered copy API

on POSIX and Windows. (Xiaoyu Yao via cnauroth)

HDFS-7328. TestTraceAdmin assumes Unix line endings. (cnauroth)

HDFS-7359. NameNode in secured HA cluster fails to start if

dfs.namenode.secondary.http-address cannot be interpreted as a network

address. (cnauroth)

HDFS-7226. Fix TestDNFencing.testQueueingWithAppend. (Yongjun Zhang via jing9)

HDFS-7382. DataNode in secure mode may throw NullPointerException if client

connects before DataNode registers itself with NameNode. (cnauroth)

HDFS-7387. NFS may only do partial commit due to a race between COMMIT and write

(brandonli)

HDFS-7391. Renable SSLv2Hello in HttpFS. (rkanter via acmurthy)

HDFS-7385. ThreadLocal used in FSEditLog class causes FSImage permission mess

up. (jiangyu via cnauroth)

Release 2.5.2 - 2014-11-19

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HDFS-7274. Disable SSLv3 in HttpFS. (Robert Kanter via kasha)

Release 2.5.1 - 2014-09-05

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HADOOP-10957. The globber will sometimes erroneously return a permission

denied exception when there is a non-terminal wildcard (cmccabe)

Release 2.5.0 - 2014-08-11

INCOMPATIBLE CHANGES

HDFS-6168. Remove a deprecated constructor and the deprecated methods reportChecksumFailure,

getDelegationToken(Text), renewDelegationToken and cancelDelegationToken from

DistributedFileSystem. (szetszwo)

NEW FEATURES

HDFS-6281. Provide option to use the NFS Gateway without having to use the

Hadoop portmapper. (atm)

HDFS-5168. Add cross node dependency support to BlockPlacementPolicy.

(Nikola Vujic via szetszwo)

HDFS-6334. Client failover proxy provider for IP failover based NN HA.

(kihwal)

HDFS-6406. Add capability for NFS gateway to reject connections from

unprivileged ports. (atm)

HDFS-2006. Ability to support storing extended attributes per file.

HDFS-5978. Create a tool to take fsimage and expose read-only WebHDFS API.

(Akira Ajisaka via wheat9)

HDFS-6278. Create HTML5-based UI for SNN. (wheat9)

HDFS-6279. Create new index page for JN / DN. (wheat9)

IMPROVEMENTS

HDFS-6007. Update documentation about short-circuit local reads (iwasakims

via cmccabe)

HDFS-6125. Cleanup unnecessary cast in HDFS code base. (suresh)

HDFS-5196. Provide more snapshot information in WebUI.

(Shinichi Yamashita via wheat9)

HDFS-6155. Fix Boxing/unboxing to parse a primitive findbugs warnings.

(suresh)

HDFS-6119. FSNamesystem code cleanup. (suresh)

HDFS-6158. Clean up dead code for OfflineImageViewer. (wheat9)

HDFS-6164. Remove lsr in OfflineImageViewer. (wheat9)

HDFS-6167. Relocate the non-public API classes in the hdfs.client package.

(szetszwo)

HDFS-6191. Disable quota checks when replaying edit log. (kihwal)

HDFS-6170. Support GETFILESTATUS operation in WebImageViewer.

(Akira Ajisaka via wheat9)

HDFS-6225. Remove the o.a.h.hdfs.server.common.UpgradeStatusReport.

(wheat9)

HDFS-6224. Add a unit test to TestAuditLogger for file permissions

passed to logAuditEvent. (Charles Lamb via wang)

HDFS-6194. Create new tests for ByteRangeInputStream.

(Akira Ajisaka via wheat9)

HDFS-6219. Proxy superuser configuration should use true client IP for

address checks. (daryn via kihwal)

HDFS-6256. Clean up ImageVisitor and SpotCheckImageVisitor.

(Akira Ajisaka via wheat9)

HDFS-6265. Prepare HDFS codebase for JUnit 4.11. (cnauroth)

HDFS-5693. Few NN metrics data points were collected via JMX when NN

is under heavy load. (Ming Ma via jing9)

HDFS-6273. Config options to allow wildcard endpoints for namenode HTTP

and HTTPS servers. (Arpit Agarwal)

HDFS-6282. Re-add testIncludeByRegistrationName. (cmccabe)

HDFS-6266. Identify full path for a given INode. (jing9)

HDFS-6210. Support GETACLSTATUS operation in WebImageViewer.

(Akira Ajisaka via wheat9)

HDFS-6269. NameNode Audit Log should differentiate between webHDFS open and

HDFS open. (Eric Payne via jeagles)

HDFS-6304. Consolidate the logic of path resolution in FSDirectory.

(wheat9)

HDFS-6295. Add "decommissioning" state and node state filtering to

dfsadmin. (wang)

HDFS-6294. Use INode IDs to avoid conflicts when a file open for write is

renamed. (cmccabe)

HDFS-6328. Clean up dead code in FSDirectory. (wheat9)

HDFS-6230. Expose upgrade status through NameNode web UI.

(Mit Desai via wheat9)

HDFS-6186. Pause deletion of blocks when the namenode starts up. (jing9)

HDFS-6293. Issues with OIV processing PB-based fsimages. (kihwal)

HDFS-2949. Add check to active state transition to prevent operator-induced

split brain. (Rushabh S Shah via kihwal)

HDFS-6287. Add vecsum test of libhdfs read access times (cmccabe)

HDFS-5683. Better audit log messages for caching operations.

(Abhiraj Butala via wang)

HDFS-6345. DFS.listCacheDirectives() should allow filtering based on

cache directive ID. (wang)

HDFS-6432. Add snapshot related APIs to webhdfs. (jing9)

HDFS-6396. Remove support for ACL feature from INodeSymlink.

(Charles Lamb via wang)

HDFS-6435. Add support for specifying a static uid/gid mapping for the NFS

gateway. (atm via wang)

HDFS-6110 adding more slow action log in critical write path

(Liang Xie via stack)

HDFS-6416. Use Time#monotonicNow in OpenFileCtx and OpenFileCtxCatch to

avoid system clock bugs (Abhiraj Butala via brandonli)

HDFS-6356. Fix typo in DatanodeLayoutVersion. (Tulasi G via wang)

HDFS-6447. balancer should timestamp the completion message.

(Juan Yu via wang)

HDFS-6463. Clarify behavior of AclStorage#createFsPermissionForExtendedAcl

in comments. (cnauroth)

HDFS-6472. fix typo in webapps/hdfs/explorer.js. (Juan Yu via wang)

HDFS-6056. Clean up NFS config settings (brandonli)

HDFS-6109 let sync\_file\_range() system call run in background

(Liang Xie via stack)

HDFS-6268. Better sorting in NetworkTopology#pseudoSortByDistance when

no local node is found. (wang)

HDFS-6369. Document that BlockReader#available() can return more bytes than

are remaining in the block (Ted Yu via Colin Patrick McCabe)

HDFS-6487. TestStandbyCheckpoint#testSBNCheckpoints is racy.

(Mit Desai via wang)

HDFS-6297. Add CLI testcases to reflect new features of dfs and dfsadmin

(Dasha Boudnik via cos)

HDFS-6399. Add note about setfacl in HDFS permissions guide.

(cnauroth via wang)

HDFS-6315. Decouple recording edit logs from FSDirectory. (wheat9)

HDFS-6379. HTTPFS - Implement ACLs support. (yoderme via tucu)

HDFS-6471. Make moveFromLocal CLI testcases to be non-disruptive

(Dasha Boudnik via cos)

HDFS-6395. Skip checking xattr limits for non-user-visible namespaces.

(Yi Liu via wang).

HDFS-3493. Invalidate excess corrupted blocks as long as minimum

replication is satisfied. (Juan Yu and Vinayakumar B via wang)

HDFS-6330. Move mkdirs() to FSNamesystem. (wheat9)

HDFS-6470. TestBPOfferService.testBPInitErrorHandling is flaky.

(Ming Ma via wang)

HDFS-6529. Trace logging for RemoteBlockReader2 to identify remote datanode

and file being read. (Anubhav Dhoot via atm)

HDFS-6499. Use NativeIO#renameTo instead of File#renameTo in

FileJournalManager. (Yongjun Zhang via atm)

HDFS-6518. TestCacheDirectives#testExceedsCapacity should

take FSN read lock when accessing pendingCached list.

(wang)

HDFS-6528. Add XAttrs to TestOfflineImageViewer. (Stephen Chu via wang)

HDFS-6545. Finalizing rolling upgrade can make NN unavailable for a long

duration. (kihwal)

HDFS-6530. Fix Balancer documentation. (szetszwo)

HDFS-6480. Move waitForReady() from FSDirectory to FSNamesystem. (wheat9)

HDFS-6403. Add metrics for log warnings reported by JVM pauses. (Yongjun

Zhang via atm)

HDFS-6557. Move the reference of fsimage to FSNamesystem. (wheat9)

HDFS-4667. Capture renamed files/directories in snapshot diff report. (jing9

and Binglin Chang via jing9)

HDFS-6507. Improve DFSAdmin to support HA cluster better.

(Zesheng Wu via vinayakumarb)

HDFS-6578. add toString method to DatanodeStorage for easier debugging.

(Yongjun Zhang via Arpit Agarwal)

HDFS-6562. Refactor rename() in FSDirectory. (wheat9)

HDFS-6486. Add user doc for XAttrs via WebHDFS. (Yi Liu via umamahesh)

HDFS-6430. HTTPFS - Implement XAttr support. (Yi Liu via tucu)

HDFS-6593. Move SnapshotDiffInfo out of INodeDirectorySnapshottable.

(Jing Zhao via wheat9)

HDFS-6595. Allow the maximum threads for balancing on datanodes to be

configurable. (Benoy Antony via szetszwo)

HDFS-6572. Add an option to the NameNode that prints the software and

on-disk image versions. (Charles Lamb via cnauroth)

HDFS-6603. Add XAttr with ACL test. (Stephen Chu via cnauroth)

HDFS-6612. MiniDFSNNTopology#simpleFederatedTopology(int)

always hardcode nameservice ID. (Juan Yu via wang)

HDFS-6614. shorten TestPread run time with a smaller retry timeout setting.

(Liang Xie via cnauroth)

HDFS-6610. TestShortCircuitLocalRead tests sometimes timeout on slow

machines. (Charles Lamb via wang)

HDFS-6620. Snapshot docs should specify about preserve options with cp command

(Stephen Chu via umamahesh)

HDFS-6493. Change dfs.namenode.startup.delay.block.deletion to second

instead of millisecond. (Juan Yu via wang)

HDFS-6680. BlockPlacementPolicyDefault does not choose favored nodes

correctly. (szetszwo)

HDFS-6712. Document HDFS Multihoming Settings. (Arpit Agarwal)

OPTIMIZATIONS

HDFS-6214. Webhdfs has poor throughput for files >2GB (daryn)

HDFS-6460. Ignore stale and decommissioned nodes in

NetworkTopology#sortByDistance. (Yongjun Zhang via wang)

HDFS-6583. Remove clientNode in FileUnderConstructionFeature. (wheat9)

HDFS-6599. 2.4 addBlock is 10 to 20 times slower compared to 0.23 (daryn)

BUG FIXES

HDFS-6112. NFS Gateway docs are incorrect for allowed hosts configuration.

(atm)

HDFS-3087. Decomissioning on NN restart can complete without blocks being

replicated. (Rushabh S Shah via kihwal)

HDFS-6162. Format strings should use platform independent line separator.

(suresh)

HDFS-6156. Simplify the JMX API that provides snapshot information.

(wheat9)

HDFS-6173. Move the default processor from Ls to Web in OfflineImageViewer.

(Akira Ajisaka via wheat9)

HDFS-5591. Checkpointing should use monotonic time when calculating period.

(Charles Lamb via wang)

HDFS-6190. Minor textual fixes in DFSClient. (Charles Lamb via wheat9)

HDFS-6159. TestBalancerWithNodeGroup.testBalancerWithNodeGroup fails if

there is block missing after balancer success (Chen He via kihwal)

HDFS-6181. Fix the wrong property names in NFS user guide (brandonli)

HDFS-6180. dead node count / listing is very broken in JMX and old GUI.

(wheat9)

HDFS-6143. WebHdfsFileSystem open should throw FileNotFoundException for

non-existing paths. (Gera Shegalov via wheat9)

HDFS-6169. Move the address in WebImageViewer. (Akira Ajisaka via wheat9)

HDFS-6160. TestSafeMode occasionally fails. (Arpit Agarwal)

HDFS-5669. Storage#tryLock() should check for null before logging successfull message

(Vinayakumar B via umamahesh)

HDFS-6237. TestDFSShell#testGet fails on Windows due to invalid file system

path. (cnauroth)

HDFS-6238. TestDirectoryScanner leaks file descriptors. (cnauroth)

HDFS-6243. HA NameNode transition to active or shutdown may leave lingering

image transfer thread. (cnauroth)

HDFS-5409. TestOfflineEditsViewer#testStored fails on Windows due to CRLF

line endings in editsStored.xml from git checkout. (cnauroth)

HDFS-4909. Avoid protocol buffer RPC namespace clashes. (cmccabe)

HDFS-6178. Decommission on standby NN couldn't finish. (Ming Ma via jing9)

HDFS-6213. TestDataNodeConfig failing on Jenkins runs due to DN web port

in use. (wang)

HDFS-6274. Cleanup javadoc warnings in HDFS code. (suresh)

HDFS-6275. Fix warnings - type arguments can be inferred and redudant

local variable. (suresh)

HDFS-6217. Webhdfs PUT operations may not work via a http proxy.

(Daryn Sharp via kihwal)

HDFS-6276. Remove unnecessary conditions and null check. (suresh)

HDFS-5865. Update OfflineImageViewer document. (Akira Ajisaka via wheat9)

HDFS-6270. Secondary namenode status page shows transaction count in bytes.

(Benoy Antony via wheat9)

HDFS-6218. Audit log should use true client IP for proxied webhdfs

operations. (daryn via kihwal)

HDFS-6288. DFSInputStream Pread doesn't update ReadStatistics.

(Juan Yu via wang)

HDFS-5892. TestDeleteBlockPool fails in branch-2. (Ted Yu via wheat9)

HDFS-6289. HA failover can fail if there are pending DN messages for DNs

which no longer exist. (atm)

HDFS-6337. Setfacl testcase is failing due to dash character in username

in TestAclCLI (umamahesh)

HDFS-5381. ExtendedBlock#hashCode should use both blockId and block pool ID

(Benoy Antony via Colin Patrick McCabe)

HDFS-6240. WebImageViewer returns 404 if LISTSTATUS to an empty directory.

(Akira Ajisaka via wheat9)

HDFS-6351. Command hdfs dfs -rm -r can't remove empty directory.

(Yongjun Zhang via wang)

HDFS-5522. Datanode disk error check may be incorrectly skipped.

(Rushabh S Shah via kihwal)

HDFS-6367. EnumSetParam$Domain#parse fails for parameter containing more than one enum.

(Yi Liu via umamahesh)

HDFS-6305. WebHdfs response decoding may throw RuntimeExceptions (Daryn

Sharp via jeagles)

HDFS-6355. Fix divide-by-zero, improper use of wall-clock time in

BlockPoolSliceScanner (cmccabe)

HDFS-6370. Web UI fails to display in intranet under IE.

(Haohui Mai via cnauroth)

HDFS-6381. Fix a typo in INodeReference.java. (Binglin Chang via jing9)

HDFS-6400. Cannot execute hdfs oiv\_legacy. (Akira AJISAKA via kihwal)

HDFS-6250. Fix test failed in TestBalancerWithNodeGroup.testBalancerWithRackLocality

(Binglin Chang and Chen He via junping\_du)

HDFS-4913. Deleting file through fuse-dfs when using trash fails requiring

root permissions (cmccabe)

HDFS-6421. Fix vecsum.c compile on BSD and some other systems. (Mit Desai

via Colin Patrick McCabe)

HDFS-6419. TestBookKeeperHACheckpoints#TestSBNCheckpoints fails on trunk.

(Akira AJISAKA via kihwal)

HDFS-6409. Fix typo in log message about NameNode layout version upgrade.

(Chen He via cnauroth)

HDFS-6433. Replace BytesMoved class with AtomicLong.

(Benoy Antony via cnauroth)

HDFS-6438. DeleteSnapshot should be a DELETE request in WebHdfs. (jing9)

HDFS-6423. Diskspace quota usage should be updated when appending data to

partial block. (jing9)

HDFS-6443. Fix MiniQJMHACluster related test failures. (Zesheng Wu via

Arpit Agarwal)

HDFS-6227. ShortCircuitCache#unref should purge ShortCircuitReplicas whose

streams have been closed by java interrupts. (Colin Patrick McCabe via jing9)

HDFS-6442. Fix TestEditLogAutoroll and TestStandbyCheckpoints failure

caused by port conficts. (Zesheng Wu via Arpit Agarwal)

HDFS-6448. BlockReaderLocalLegacy should set socket timeout based on

conf.socketTimeout (liangxie via cmccabe)

HDFS-6453. Use Time#monotonicNow to avoid system clock reset.

(Liang Xie via wang)

HDFS-6461. Use Time#monotonicNow to compute duration in DataNode#shutDown.

(James Thomas via wang)

HDFS-6462. NFS: fsstat request fails with the secure hdfs (brandonli)

HDFS-6404. HttpFS should use a 000 umask for mkdir and create

operations. (yoderme via tucu)

HDFS-6424. blockReport doesn't need to invalidate blocks on SBN. (Ming Ma

via jing9)

HDFS-6497. Make TestAvailableSpaceVolumeChoosingPolicy deterministic

(cmccabe)

HDFS-6500. Snapshot shouldn't be removed silently after renaming to an

existing snapshot. (Nicholas SZE via junping\_du)

HDFS-6257. TestCacheDirectives#testExceedsCapacity fails occasionally

(cmccabe)

HDFS-6364. Incorrect check for unknown datanode in Balancer. (Benoy

Antony via Arpit Agarwal)

HDFS-6503. Fix typo of DFSAdmin restoreFailedStorage.

(Zesheng Wu via wheat9)

HDFS-6464. Support multiple xattr.name parameters for WebHDFS getXAttrs.

(Yi Liu via umamahesh)

HDFS-6539. test\_native\_mini\_dfs is skipped in hadoop-hdfs/pom.xml

(decstery via cmccabe)

HDFS-6527. Edit log corruption due to defered INode removal. (kihwal and

jing9 via jing9)

HDFS-6552. add DN storage to a BlockInfo will not replace the different

storage from same DN. (Amir Langer via Arpit Agarwal)

HDFS-6551. Rename with OVERWRITE option may throw NPE when the target

file/directory is a reference INode. (jing9)

HDFS-6439. NFS should not reject NFS requests to the NULL procedure whether

port monitoring is enabled or not. (brandonli)

HDFS-6559. Fix wrong option "dfsadmin -rollingUpgrade start" in the

document. (Akira Ajisaka via Arpit Agarwal)

HDFS-6553. Add missing DeprecationDeltas for NFS Kerberos configurations

(Stephen Chu via brandonli)

HDFS-6563. NameNode cannot save fsimage in certain circumstances when

snapshots are in use. (atm)

HDFS-3848. A Bug in recoverLeaseInternal method of FSNameSystem class

(Hooman Peiro Sajjad and Chen He via kihwal)

HDFS-6549. Add support for accessing the NFS gateway from the AIX NFS

client. (atm)

HDFS-6535. HDFS quota update is wrong when file is appended. (George Wong

via jing9)

HDFS-6222. Remove background token renewer from webhdfs.

(Rushabh Shah and Daryn Sharp via cnauroth)

HDFS-6580. FSNamesystem.mkdirsInt should call the getAuditFileInfo()

wrapper. (Zhilei Xu via wheat9)

HDFS-6587. Bug in TestBPOfferService can cause test failure. (Zhilei Xu

via Arpit Agarwal)

HDFS-6598. Fix a typo in message issued from explorer.js. (Yongjun Zhang

via wheat9)

HDFS-6475. WebHdfs clients fail without retry because incorrect handling

of StandbyException. (Yongjun Zhang via atm)

HADOOP-10701. NFS should not validate the access premission only based on

the user's primary group (Harsh J via atm)

HDFS-6556. Refine XAttr permissions (umamahesh)

HDFS-6601. Issues in finalizing rolling upgrade when there is a layout

version change (kihwal)

HDFS-6418. Regression: DFS\_NAMENODE\_USER\_NAME\_KEY missing

(szetszwo via stevel)

HDFS-6558. Missing newline in the description of dfsadmin -rollingUpgrade.

(Chen He via kihwal)

HDFS-6591. while loop is executed tens of thousands of times in Hedged Read

(Liang Xie via cnauroth)

HDFS-6604. The short-circuit cache doesn't correctly time out replicas that

haven't been used in a while (cmccabe)

HDFS-4286. Changes from BOOKKEEPER-203 broken capability of including

bookkeeper-server jar in hidden package of BKJM (Rakesh R via umamahesh)

HDFS-4221. Remove the format limitation point from BKJM documentation as HDFS-3810

closed. (Rakesh R via umamahesh)

HDFS-5411. Update Bookkeeper dependency to 4.2.3. (Rakesh R via umamahesh)

HDFS-6631. TestPread#testHedgedReadLoopTooManyTimes fails intermittently.

(Liang Xie via cnauroth)

HDFS-6647. Edit log corruption when pipeline recovery occurs for deleted

file present in snapshot (kihwal)

HDFS-6378. NFS registration should timeout instead of hanging when

portmap/rpcbind is not available (Abhiraj Butala via brandonli)

HDFS-6632. Reintroduce dfs.http.port / dfs.https.port in branch-2.

(Yongjun Zhang via wheat9)

HDFS-6703. NFS: Files can be deleted from a read-only mount

(Srikanth Upputuri via brandonli)

HDFS-6422. getfattr in CLI doesn't throw exception or return non-0 return code

when xattr doesn't exist. (Charles Lamb via umamahesh)

HDFS-6696. Name node cannot start if the path of a file under

construction contains ".snapshot". (wang)

HDFS-6312. WebHdfs HA failover is broken on secure clusters.

(daryn via tucu)

HDFS-6618. FSNamesystem#delete drops the FSN lock between removing INodes

from the tree and deleting them from the inode map (kihwal via cmccabe)

HDFS-6622. Rename and AddBlock may race and produce invalid edits (kihwal

via cmccabe)

HDFS-6723. New NN webUI no longer displays decommissioned state for dead node.

(Ming Ma via wheat9)

HDFS-6768. Fix a few unit tests that use hard-coded port numbers. (Arpit

Agarwal)

HDFS-6793. Missing changes in HftpFileSystem when Reintroduce

dfs.http.port / dfs.https.port in branch-2. (Juan Yu via wang).

BREAKDOWN OF HDFS-2006 SUBTASKS AND RELATED JIRAS

HDFS-6299. Protobuf for XAttr and client-side implementation. (Yi Liu via umamahesh)

HDFS-6302. Implement XAttr as a INode feature. (Yi Liu via umamahesh)

HDFS-6309. Javadocs for Xattrs apis in DFSClient and other minor fixups. (Charles Lamb via umamahesh)

HDFS-6258. Namenode server-side storage for XAttrs. (Yi Liu via umamahesh)

HDFS-6303. HDFS implementation of FileContext API for XAttrs. (Yi Liu and Charles Lamb via umamahesh)

HDFS-6324. Shift XAttr helper code out for reuse. (Yi Liu via umamahesh)

HDFS-6301. NameNode: persist XAttrs in fsimage and record XAttrs modifications to edit log.

(Yi Liu via umamahesh)

HDFS-6298. XML based End-to-End test for getfattr and setfattr commands. (Yi Liu via umamahesh)

HDFS-6314. Test cases for XAttrs. (Yi Liu via umamahesh)

HDFS-6344. Maximum limit on the size of an xattr. (Yi Liu via umamahesh)

HDFS-6377. Unify xattr name and value limits into a single limit. (wang)

HDFS-6373. Remove support for extended attributes on symlinks. (Charles Lamb via wang)

HDFS-6283. Write end user documentation for xattrs. (wang)

HDFS-6412. Interface audience and stability annotations missing from

several new classes related to xattrs. (wang)

HDFS-6259. Support extended attributes via WebHDFS. (yliu)

HDFS-6346. Optimize OP\_SET\_XATTRS by persisting single Xattr entry per setXattr/removeXattr api call

(Yi Liu via umamahesh)

HDFS-6331. ClientProtocol#setXattr should not be annotated idempotent.

(umamahesh via wang)

HDFS-6335. TestOfflineEditsViewer for XAttr. (Yi Liu via umamahesh)

HDFS-6343. fix TestNamenodeRetryCache and TestRetryCacheWithHA failures. (umamahesh)

HDFS-6366. FsImage loading failed with RemoveXattr op (umamahesh)

HDFS-6357. SetXattr should persist rpcIDs for handling retrycache with Namenode restart and HA

(umamahesh)

HDFS-6372. Handle setXattr rpcIDs for OfflineEditsViewer. (umamahesh)

HDFS-6410. DFSClient unwraps AclException in xattr methods, but those

methods cannot throw AclException. (wang)

HDFS-6413. xattr names erroneously handled as case-insensitive.

(Charles Lamb via cnauroth)

HDFS-6414. xattr modification operations are based on state of latest

snapshot instead of current version of inode. (Andrew Wang via cnauroth)

HDFS-6374. setXAttr should require the user to be the owner of the file

or directory (Charles Lamb via wang)

HDFS-6492. Support create-time xattrs and atomically setting multiple

xattrs. (wang)

Release 2.4.1 - 2014-06-23

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HDFS-6215. Wrong error message for upgrade. (Kihwal Lee via jeagles)

OPTIMIZATIONS

BUG FIXES

HDFS-6189. Multiple HDFS tests fail on Windows attempting to use a test

root path containing a colon. (cnauroth via szetszwo)

HDFS-6197. Rolling upgrade rollback on Windows can fail attempting to rename

edit log segment files to a destination that already exists. (cnauroth)

HDFS-6198. DataNode rolling upgrade does not correctly identify current

block pool directory and replace with trash on Windows. (cnauroth)

HDFS-6206. Fix NullPointerException in DFSUtil.substituteForWildcardAddress.

(szetszwo)

HDFS-6204. Fix TestRBWBlockInvalidation: change the last sleep to a loop.

(szetszwo)

HDFS-6209. TestValidateConfigurationSettings should use random ports.

(Arpit Agarwal via szetszwo)

HDFS-6208. DataNode caching can leak file descriptors. (cnauroth)

HDFS-6231. DFSClient hangs infinitely if using hedged reads and all eligible

datanodes die. (cnauroth)

HDFS-6234. TestDatanodeConfig#testMemlockLimit fails on Windows due to

invalid file path. (cnauroth)

HDFS-6235. TestFileJournalManager can fail on Windows due to file locking if

tests run out of order. (cnauroth)

HDFS-6229. Race condition in failover can cause RetryCache fail to work.

(jing9)

HDFS-6232. OfflineEditsViewer throws a NPE on edits containing ACL

modifications (ajisakaa via cmccabe)

HDFS-6236. ImageServlet should use Time#monotonicNow to measure latency.

(cnauroth)

HDFS-6245. datanode fails to start with a bad disk even when failed

volumes is set. (Arpit Agarwal)

HDFS-2882. DN continues to start up, even if block pool fails to initialize

(vinayakumarb)

HDFS-6340. DN can't finalize upgrade. (Rahul Singhal via Arpit Agarwal)

HDFS-6329. WebHdfs does not work if HA is enabled on NN but logical URI is

not configured. (kihwal)

HDFS-6313. WebHdfs may use the wrong NN when configured for multiple HA NNs

(kihwal)

HDFS-6326. WebHdfs ACL compatibility is broken. (cnauroth)

HDFS-6361. TestIdUserGroup.testUserUpdateSetting failed due to out of range

nfsnobody Id. (Yongjun Zhang via brandonli)

HDFS-4052. BlockManager#invalidateWork should print log outside the lock.

(Jing Zhao via suresh)

HDFS-6362. InvalidateBlocks is inconsistent in usage of DatanodeUuid and

StorageID. (Arpit Agarwal)

HDFS-6402. Suppress findbugs warning for failure to override equals and

hashCode in FsAclPermission. (cnauroth)

HDFS-6325. Append should fail if the last block has insufficient number of

replicas (Keith Pak via cos)

HDFS-6397. NN shows inconsistent value in deadnode count.

(Mohammad Kamrul Islam via kihwal)

HDFS-6411. nfs-hdfs-gateway mount raises I/O error and hangs when a

unauthorized user attempts to access it (brandonli)

Release 2.4.0 - 2014-04-07

INCOMPATIBLE CHANGES

NEW FEATURES

HDFS-5698. Use protobuf to serialize / deserialize FSImage. (See breakdown

of tasks below for features and contributors)

HDFS-5776 Support 'hedged' reads in DFSClient (Liang Xie via stack)

HDFS-4685. Implementation of ACLs in HDFS. (See breakdown of tasks below for

features and contributors)

IMPROVEMENTS

HDFS-5781. Use an array to record the mapping between FSEditLogOpCode and

the corresponding byte value. (jing9)

HDFS-5153. Datanode should send block reports for each storage in a

separate message. (Arpit Agarwal)

HDFS-5804. HDFS NFS Gateway fails to mount and proxy when using Kerberos.

(Abin Shahab via jing9)

HDFS-5859. DataNode#checkBlockToken should check block tokens even if

security is not enabled. (cmccabe)

HDFS-5746. Add ShortCircuitSharedMemorySegment (cmccabe)

HDFS-4911. Reduce PeerCache timeout to be commensurate with

dfs.datanode.socket.reuse.keepalive (cmccabe)

HDFS-4370. Fix typo Blanacer in DataNode. (Chu Tong via shv)

HDFS-5929. Add blockpool % usage to HDFS federated nn page.

(Siqi Li via suresh)

HDFS-5810. Unify mmap cache and short-circuit file descriptor cache

(cmccabe)

HDFS-5940. Minor cleanups to ShortCircuitReplica, FsDatasetCache, and

DomainSocketWatcher (cmccabe)

HDFS-5531. Combine the getNsQuota() and getDsQuota() methods in INode.

(szetszwo)

HDFS-5285. Flatten INodeFile hierarchy: Replace INodeFileUnderConstruction

and INodeFileUnderConstructionWithSnapshot with FileUnderContructionFeature.

(jing9 via szetszwo)

HDFS-5286. Flatten INodeDirectory hierarchy: Replace INodeDirectoryWithQuota

with DirectoryWithQuotaFeature. (szetszwo)

HDFS-5537. Remove FileWithSnapshot interface. (jing9 via szetszwo)

HDFS-5554. Flatten INodeFile hierarchy: Replace INodeFileWithSnapshot with

FileWithSnapshotFeature. (jing9 via szetszwo)

HDFS-5647. Merge INodeDirectory.Feature and INodeFile.Feature. (Haohui Mai

via jing9)

HDFS-5632. Flatten INodeDirectory hierarchy: Replace

INodeDirectoryWithSnapshot with DirectoryWithSnapshotFeature.

(jing9 via szetszwo)

HDFS-5715. Use Snapshot ID to indicate the corresponding Snapshot for a

FileDiff/DirectoryDiff. (jing9)

HDFS-5726. Fix compilation error in AbstractINodeDiff for JDK7. (jing9)

HDFS-5768. Consolidate the serialization code in DelegationTokenSecretManager

(Haohui Mai via brandonli)

HDFS-5775. Consolidate the code for serialization in CacheManager

(Haohui Mai via brandonli)

HDFS-5768. Consolidate the serialization code in DelegationTokenSecretManager

(Haohui Mai via brandonli)

HDFS-5973. add DomainSocket#shutdown method (cmccabe)

HDFS-5318. Support read-only and read-write paths to shared replicas.

(Eric Sirianni via Arpit Agarwal)

HDFS-5868. Make hsync implementation pluggable on the DataNode.

(Buddy Taylor via Arpit Agarwal)

HDFS-5935. New Namenode UI FS browser should throw smarter error messages.

(Travis Thompson via jing9)

HDFS-5939. WebHdfs returns misleading error code and logs nothing if trying

to create a file with no DNs in cluster. (Yongjun Zhang via jing9)

HDFS-6006. Remove duplicate code in FSNameSystem#getFileInfo.

(Akira Ajisaka via cnauroth)

HDFS-6018. Exception recorded in LOG when IPCLoggerChannel#close is called.

(jing9)

HDFS-3969. Small bug fixes and improvements for disk locations API.

(Todd Lipcon and Andrew Wang)

HDFS-6025. Update findbugsExcludeFile.xml. (szetszwo)

HDFS-6030. Remove an unused constructor in INode.java. (yzhang via

cmccabe)

HDFS-4200. Reduce the size of synchronized sections in PacketResponder.

(Suresh Srinivas, backported by Andrew Wang, committed by jing9)

HDFS-5950. The DFSClient and DataNode should use shared memory segments to

communicate short-circuit information. (cmccabe)

HDFS-6046. add dfs.client.mmap.enabled (cmccabe)

HDFS-5321. Clean up the HTTP-related configuration in HDFS (wheat9)

HDFS-5167. Add metrics about the NameNode retry cache. (Tsuyoshi OZAWA via

jing9)

HDFS-6043. Give HDFS daemons NFS3 and Portmap their own OPTS (brandonli)

HDFS-6044. Add property for setting the NFS look up time for users

(brandonli)

HDFS-6061. Allow dfs.datanode.shared.file.descriptor.path to contain

multiple entries and fall back when needed (cmccabe)

HDFS-5986. Capture the number of blocks pending deletion on namenode webUI.

(cnauroth)

HDFS-6070. Cleanup use of ReadStatistics in DFSInputStream. (wang)

HDFS-6055. Change default configuration to limit file name length in HDFS.

(cnauroth)

HDFS-3405. Checkpointing should use HTTP POST or PUT instead of GET-GET

to send merged fsimages. (Vinayakumar B via wang)

HDFS-6085. Improve CacheReplicationMonitor log messages a bit (cmccabe)

HDFS-6072. Clean up dead code of FSImage. (wheat9)

HDFS-6080. Improve NFS gateway performance by making rtmax and wtmax

configurable. (Abin Shahab via brandonli)

HDFS-6084. Namenode UI - "Hadoop" logo link shouldn't go to hadoop

homepage. (Travis Thompson via wheat9)

HDFS-6106. Reduce default for

dfs.namenode.path.based.cache.refresh.interval.ms (cmccabe)

HDFS-6090. Use MiniDFSCluster.Builder instead of deprecated constructors.

(Akira AJISAKA via jing9)

HDFS-6068. Disallow snapshot names that are also invalid directory names.

(sathish via szetszwo)

HDFS-6123. Do not log stack trace for ReplicaAlreadyExistsException and

SocketTimeoutException. (szetszwo)

HDFS-6129. When a replica is not found for deletion, do not throw an

exception. (szetszwo)

HDFS-6138. Add a user guide for how to use viewfs with federation.

(sanjay and szetszwo via szetszwo)

HDFS-6120. Fix and improve safe mode log messages. (Arpit Agarwal)

HDFS-6050. NFS does not handle exceptions correctly in a few places

(brandonli)

HDFS-5138. Support HDFS upgrade in HA. (atm via todd)

HDFS-6124. Add final modifier to class members. (Suresh Srinivas via

Arpit Agarwal)

HDFS-5910. Enhance DataTransferProtocol to allow per-connection choice

of encryption/plain-text. (Benoy Antony via Arpit Agarwal)

HDFS-6150. Add inode id information in the logs to make debugging easier.

(suresh)

OPTIMIZATIONS

HDFS-5790. LeaseManager.findPath is very slow when many leases need recovery

(todd)

BUG FIXES

HDFS-5492. Port HDFS-2069 (Incorrect default trash interval in the

docs) to trunk. (Akira Ajisaka via Arpit Agarwal)

HDFS-5843. DFSClient.getFileChecksum() throws IOException if checksum is

disabled. (Laurent Goujon via jing9)

HDFS-5856. DataNode.checkDiskError might throw NPE.

(Josh Elser via suresh)

HDFS-5828. BlockPlacementPolicyWithNodeGroup can place multiple replicas on

the same node group when dfs.namenode.avoid.write.stale.datanode is true.

(Buddy via junping\_du)

HDFS-5767. NFS implementation assumes userName userId mapping to be unique,

which is not true sometimes (Yongjun Zhang via brandonli)

HDFS-5791. TestHttpsFileSystem should use a random port to avoid binding

error during testing (Haohui Mai via brandonli)

HDFS-5709. Improve NameNode upgrade with existing reserved paths and path

components. (Andrew Wang via atm)

HDFS-5881. Fix skip() of the short-circuit local reader(legacy). (kihwal)

HDFS-5895. HDFS cacheadmin -listPools has exit\_code of 1 when the command

returns 0 result. (Tassapol Athiapinya via cnauroth)

HDFS-5807. TestBalancerWithNodeGroup.testBalancerWithNodeGroup fails

intermittently. (Chen He via kihwal)

HDFS-5882. TestAuditLogs is flaky (jxiang via cmccabe)

HDFS-5900. Cannot set cache pool limit of "unlimited" via CacheAdmin.

(wang)

HDFS-5886. Potential null pointer deference in RpcProgramNfs3#readlink()

(brandonli)

HDFS-4858. HDFS DataNode to NameNode RPC should timeout.

(Henry Wang via shv)

HDFS-5879. Some TestHftpFileSystem tests do not close streams.

(Gera Shegalov via suresh)

HDFS-5938. Make BlockReaderFactory#BlockReaderPeer a static class to avoid

a findbugs warning. (cmccabe)

HDFS-5891. webhdfs should not try connecting the DN during redirection

(Haohui Mai via brandonli)

HDFS-5904. TestFileStatus fails intermittently. (Mit Desai via kihwal)

HDFS-5941. add dfs.namenode.secondary.https-address and

dfs.namenode.secondary.https-address in hdfs-default.xml.

(Haohui Mai via cnauroth)

HDFS-5913. Nfs3Utils#getWccAttr() should check attr parameter against null

(brandonli)

HDFS-5934. New Namenode UI back button doesn't work as expected

(Travis Thompson via brandonli)

HDFS-5901. NameNode new UI doesn't support IE8 and IE9 on windows 7

(Vinayakumar B via brandonli)

HDFS-5943. 'dfs.namenode.https-address' property is not loaded from

configuration in federation setup. (suresh)

HDFS-3128. Unit tests should not use a test root in /tmp. (wang)

HDFS-5948. TestBackupNode flakes with port in use error. (Haohui Mai

via Arpit Agarwal)

HDFS-5949. New Namenode UI when trying to download a file, the browser

doesn't know the file name. (Haohui Mai via brandonli)

HDFS-5716. Allow WebHDFS to use pluggable authentication filter

(Haohui Mai via brandonli)

HDFS-5953. TestBlockReaderFactory fails if libhadoop.so has not been built.

(Akira Ajisaka via wang)

HDFS-5759. Web UI does not show up during the period of loading FSImage.

(Haohui Mai via Arpit Agarwal)

HDFS-5942. Fix javadoc in OfflineImageViewer. (Akira Ajisaka via cnauroth)

HDFS-5780. TestRBWBlockInvalidation times out intemittently. (Mit Desai

via kihwal)

HDFS-5803. TestBalancer.testBalancer0 fails. (Chen He via kihwal)

HDFS-5893. HftpFileSystem.RangeHeaderUrlOpener uses the default

URLConnectionFactory which does not import SSL certificates. (Haohui Mai via

jing9)

HDFS-5961. OIV cannot load fsimages containing a symbolic link. (kihwal)

HDFS-5483. NN should gracefully handle multiple block replicas on same DN.

(Arpit Agarwal)

HDFS-5742. DatanodeCluster (mini cluster of DNs) fails to start.

(Arpit Agarwal)

HDFS-5979. Typo and logger fix for fsimage PB code. (wang)

HDFS-5962. Mtime and atime are not persisted for symbolic links. (Akira

Ajisaka via kihwal)

HDFS-5944. LeaseManager:findLeaseWithPrefixPath can't handle path like /a/b/

and cause SecondaryNameNode failed do checkpoint (Yunjiong Zhao via brandonli)

HDFS-5982. Need to update snapshot manager when applying editlog for deleting

a snapshottable directory. (jing9)

HDFS-5988. Bad fsimage always generated after upgrade. (wang)

HDFS-5922. DN heartbeat thread can get stuck in tight loop. (Arpit Agarwal)

HDFS-6008. Namenode dead node link is giving HTTP error 500.

(Benoy Antony via cnauroth)

HDFS-5936. MiniDFSCluster does not clean data left behind by

SecondaryNameNode. (Binglin Chang via cnauroth)

HDFS-5339. WebHDFS URI does not accept logical nameservices when security is

enabled. (Haohui Mai via jing9)

HDFS-6033. PBImageXmlWriter incorrectly handles processing cache

directives. (atm)

HDFS-5821. TestHDFSCLI fails for user names with the dash character.

(Gera Shegalov via Arpit Agarwal)

HDFS-5956. A file size is multiplied by the replication factor in 'hdfs oiv

-p FileDistribution' option. (Akira Ajisaka via wheat9)

HDFS-5866. '-maxSize' and '-step' option fail in OfflineImageViewer.

(Akira Ajisaka via wheat9)

HDFS-6040. fix DFSClient issue without libhadoop.so and some other

ShortCircuitShm cleanups (cmccabe)

HDFS-6053. Fix TestDecommissioningStatus and TestDecommission in branch-2.

(jing9)

HDFS-6047 TestPread NPE inside in DFSInputStream hedgedFetchBlockByteRange

(stack)

HDFS-6051. HDFS cannot run on Windows since short-circuit shared memory

segment changes. (cmccabe)

HDFS-5857. TestWebHDFS#testNamenodeRestart fails intermittently with NPE.

(Mit Desai via wheat9)

HDFS-5898. Allow NFS gateway to login/relogin from its kerberos keytab.

(Abin Shahab via atm)

HDFS-6057. DomainSocketWatcher.watcherThread should be marked as daemon

thread (cmccabe)

HDFS-6058. Fix TestHDFSCLI failures after HADOOP-8691 change.

(Akira Ajisaka via wheat9)

HDFS-6062. TestRetryCacheWithHA#testConcat is flaky. (Jing Zhao via wheat9)

HDFS-6059. TestBlockReaderLocal fails if native library is not available.

(Akira AJISAKA via Colin Patrick McCabe)

HDFS-6084. DFSConfigKeys.DFS\_BLOCKREPORT\_INTERVAL\_MSEC\_DEFAULT is

not updated with latest block report interval of 6 hrs.

(Vinayakumar B via wheat9)

HDFS-6067. TestPread.testMaxOutHedgedReadPool is flaky (cmccabe)

HDFS-6065. HDFS zero-copy reads should return null on EOF when doing ZCR

(cmccabe)

HDFS-5064. Standby checkpoints should not block concurrent readers.

(atm via wang)

HDFS-6078. TestIncrementalBlockReports is flaky. (Arpit Agarwal)

HDFS-6071. BlockReaderLocal doesn't return -1 on EOF when doing a

zero-length read on a short file (cmccabe)

HDFS-6077. Running slive with webhdfs on secure HA cluster fails with unkown

host exception. (jing9)

HDFS-6086. Fix a case where zero-copy or no-checksum reads were not allowed

even when the block was cached (cmccabe)

HDFS-6079. Timeout for getFileBlockStorageLocations does not work. (wang)

HDFS-5705. TestSecondaryNameNodeUpgrade#testChangeNsIDFails may fail due

to ConcurrentModificationException. (Ted Yu via brandonli)

HDFS-6096. TestWebHdfsTokens may timeout. (szetszwo via Arpit Agarwal)

HDFS-5244. TestNNStorageRetentionManager#testPurgeMultipleDirs fails.

(Jinghui Wang via suresh)

HDFS-6097. zero-copy reads are incorrectly disabled on file offsets above

2GB (cmccabe)

HDFS-6102. Lower the default maximum items per directory to fix PB fsimage

loading. (wang)

HDFS-6094. The same block can be counted twice towards safe mode

threshold. (Arpit Agarwal)

HDFS-5516. WebHDFS does not require user name when anonymous http requests

are disallowed. (Miodrag Radulovic via cnauroth)

HDFS-6117. Print file path information in FileNotFoundException on INode

ID mismatch. (suresh)

HDFS-6099. HDFS file system limits not enforced on renames. (cnauroth)

HDFS-6100. DataNodeWebHdfsMethods does not failover in HA mode. (Haohui Mai

via jing9)

HDFS-6105. NN web UI for DN list loads the same jmx page multiple times.

(wheat9)

HDFS-6127. WebHDFS tokens cannot be renewed in HA setup. (wheat9)

HDFS-6131. Move HDFSHighAvailabilityWithNFS.apt.vm and

HDFSHighAvailabilityWithQJM.apt.vm from Yarn to HDFS. (jing9)

HDFS-6140. WebHDFS cannot create a file with spaces in the name after HA

failover changes. (cnauroth)

HDFS-6135. In HDFS upgrade with HA setup, JournalNode cannot handle layout

version bump when rolling back. (jing9)

HDFS-5846. Assigning DEFAULT\_RACK in resolveNetworkLocation method can break

data resiliency. (Nikola Vujic via cnauroth)

HDFS-5840. Follow-up to HDFS-5138 to improve error handling during partial

upgrade failures. (atm, jing9 and suresh via jing9)

HDFS-6130. NPE when upgrading namenode from fsimages older than -32.

(wheat9)

HDFS-6115. Call flush() for every append on block scan verification log.

(Vinayakumar B via szetszwo)

HDFS-5672. TestHASafeMode#testSafeBlockTracking fails in trunk. (jing9)

HDFS-6157. Fix the entry point of OfflineImageViewer for hdfs.cmd. (wheat9)

HDFS-6163. Fix a minor bug in the HA upgrade document. (Fengdong Yu via

jing9)

HDFS-6166. Change Balancer socket read timeout to 20 minutes and add

10 seconds delay after error. (Nathan Roberts via szetszwo)

BREAKDOWN OF HDFS-5698 SUBTASKS AND RELATED JIRAS

HDFS-5717. Save FSImage header in protobuf. (Haohui Mai via jing9)

HDFS-5738. Serialize INode information in protobuf. (Haohui Mai via jing9)

HDFS-5772. Serialize under-construction file information in FSImage. (jing9)

HDFS-5783. Compute the digest before loading FSImage. (Haohui Mai via jing9)

HDFS-5785. Serialize symlink in protobuf. (Haohui Mai via jing9)

HDFS-5793. Optimize the serialization of PermissionStatus. (Haohui Mai via

jing9)

HDFS-5743. Use protobuf to serialize snapshot information. (jing9)

HDFS-5774. Serialize CachePool directives in protobuf. (Haohui Mai via jing9)

HDFS-5744. Serialize information for token managers in protobuf. (Haohui Mai

via jing9)

HDFS-5824. Add a Type field in Snapshot DiffEntry's protobuf definition.

(jing9)

HDFS-5808. Implement cancellation when saving FSImage. (Haohui Mai via jing9)

HDFS-5826. Update the stored edit logs to be consistent with the changes in

HDFS-5698 branch. (Haohui Mai via jing9)

HDFS-5797. Implement offline image viewer. (Haohui Mai via jing9)

HDFS-5771. Track progress when loading fsimage. (Haohui Mai via cnauroth)

HDFS-5871. Use PBHelper to serialize CacheDirectiveInfoExpirationProto.

(Haohui Mai via jing9)

HDFS-5884. LoadDelegator should use IOUtils.readFully() to read the magic

header. (Haohui Mai via jing9)

HDFS-5885. Add annotation for repeated fields in the protobuf definition.

(Haohui Mai via jing9)

HDFS-5906. Fixing findbugs and javadoc warnings in the HDFS-5698 branch.

(Haohui Mai via jing9)

HDFS-5911. The id of a CacheDirective instance does not get serialized in

the protobuf-fsimage. (Haohui Mai via jing9)

HDFS-5915. Refactor FSImageFormatProtobuf to simplify cross section reads.

(Haohui Mai via cnauroth)

HDFS-5847. Consolidate INodeReference into a separate section. (jing9)

HDFS-5959. Fix typo at section name in FSImageFormatProtobuf.java.

(Akira Ajisaka via suresh)

HDFS-5981. PBImageXmlWriter generates malformed XML.

(Haohui Mai via cnauroth)

HDFS-6107. When a block can't be cached due to limited space on the

DataNode, that block becomes uncacheable (cmccabe)

HDFS-6089. Standby NN while transitioning to active throws a connection

refused error when the prior active NN process is suspended.

(Jing Zhao via Andrew Wang)

BREAKDOWN OF HDFS-4685 SUBTASKS AND RELATED JIRAS

HDFS-5596. Implement RPC stubs. (Haohui Mai via cnauroth)

HDFS-5685. Implement ACL as a INode feature. (Haohui Mai via cnauroth)

HDFS-5618. NameNode: persist ACLs in fsimage. (Haohui Mai via cnauroth)

HDFS-5619. NameNode: record ACL modifications to edit log.

(Haohui Mai via cnauroth)

HDFS-5673. Implement logic for modification of ACLs. (cnauroth)

HDFS-5758. NameNode: complete implementation of inode modifications for

ACLs. (Chris Nauroth via wheat9)

HDFS-5612. NameNode: change all permission checks to enforce ACLs in

addition to permissions. (Chris Nauroth via wheat9)

HDFS-5613. NameNode: implement handling of ACLs in combination with

symlinks. (Chris Nauroth via wheat9)

HDFS-5615. NameNode: implement handling of ACLs in combination with sticky

bit. (Chris Nauroth via wheat9)

HDFS-5702. FsShell Cli: Add XML based End-to-End test for getfacl and

setfacl commands. (Vinay via cnauroth)

HDFS-5608. WebHDFS: implement ACL APIs.

(Sachin Jose and Renil Joseph via cnauroth)

HDFS-5614. NameNode: implement handling of ACLs in combination with

snapshots. (cnauroth)

HDFS-5858. Refactor common ACL test cases to be run through multiple

FileSystem implementations. (cnauroth)

HDFS-5860. Refactor INodeDirectory getDirectoryXFeature methods to use

common getFeature helper method. (Jing Zhao via cnauroth)

HDFS-5861. Add CLI test for Ls output for extended ACL marker.

(Vinay via cnauroth)

HDFS-5616. NameNode: implement default ACL handling. (cnauroth)

HDFS-5899. Add configuration flag to disable/enable support for ACLs.

(cnauroth)

HDFS-5914. Incorporate ACLs with the changes from HDFS-5698.

(Haohui Mai via cnauroth)

HDFS-5625. Write end user documentation for HDFS ACLs. (cnauroth)

HDFS-5925. ACL configuration flag must only reject ACL API calls, not ACLs

present in fsimage or edits. (cnauroth)

HDFS-5923. Do not persist the ACL bit in the FsPermission.

(Haohui Mai via cnauroth)

HDFS-5933. Optimize the FSImage layout for ACLs (Haohui Mai via cnauroth)

HDFS-5932. Ls should display the ACL bit (Chris Nauroth via wheat9)

HDFS-5937. Fix TestOfflineEditsViewer on HDFS-4685 branch. (cnauroth)

HDFS-5737. Replacing only the default ACL can fail to copy unspecified base

entries from the access ACL. (cnauroth)

HDFS-5739. ACL RPC must allow null name or unspecified permissions in ACL

entries. (cnauroth)

HDFS-5799. Make audit logging consistent across ACL APIs. (cnauroth)

HDFS-5849. Removing ACL from an inode fails if it has only a default ACL.

(cnauroth)

HDFS-5623. NameNode: add tests for skipping ACL enforcement when permission

checks are disabled, user is superuser or user is member of supergroup.

(cnauroth)

HDFS-5908. Change AclFeature to capture list of ACL entries in an

ImmutableList. (cnauroth)

HDFS-6028. Print clearer error message when user attempts to delete required

mask entry from ACL. (cnauroth)

HDFS-6039. Uploading a File under a Dir with default acls throws "Duplicated

ACLFeature". (cnauroth)

HDFS-6063. TestAclCLI fails intermittently when running test 24:

copyFromLocal. (cnauroth)

HDFS-6069. Quash stack traces when ACLs are disabled. (cnauroth)

HDFS-5638. HDFS implementation of FileContext API for ACLs.

(Vinayakumar B via cnauroth)

HDFS-5535 subtasks:

HDFS-5496. Make replication queue initialization asynchronous. (Vinay via

jing9)

HDFS-5645. Support upgrade marker in editlog streams. (szetszwo)

HDFS-5752. Add a new DFSAdmin command to query, start and finalize rolling

upgrade. (szetszwo)

HDFS-5786. Support QUERY and FINALIZE actions of rolling upgrade. (szetszwo)

HDFS-5753. Add new Namenode startup options for downgrade and rollback using

upgrade marker. (szetszwo)

HDFS-5835. Add a new option for starting Namenode when rolling upgrade is

in progress. (szetszwo)

HDFS-5754. Split LayoutVerion into NameNodeLayoutVersion and

DataNodeLayoutVersion. (Brandon Li via szetszwo)

HDFS-5848. Add rolling upgrade status to heartbeat response. (szetszwo)

HDFS-5890. Avoid NPE in Datanode heartbeat. (Vinay via brandonli)

HDFS-5869. When starting rolling upgrade or NN restarts, NN should create

a checkpoint right before the upgrade marker. (szetszwo)

HDFS-5874. Should not compare DataNode current layout version with that of

NameNode in DataStrorage. (brandonli)

HDFS-5889. When starting rolling upgrade, create a fs image for rollback

so that the standby namenode can create checkpoints during upgrade.

(szetszwo & jing9)

HDFS-5907. Add BlockPoolSliceStorage 'trash' to handle block deletions

during rolling upgrades. (Arpit Agarwal)

HDFS-5494. Merge Protobuf-based-FSImage code from trunk - fix build

break after the merge. (Jing Zhao via Arpit Agarwal)

HDFS-5585. Provide admin commands for data node upgrade (kihwal)

HDFS-5920. Support rollback of rolling upgrade in NameNode and JournalNodes.

(jing9)

HDFS-5945. Add rolling upgrade information to fsimage; and disallow upgrade

and rolling upgrade to be started simultaneously. (szetszwo & jing9)

HDFS-5966. Fix rollback of rolling upgrade in NameNode HA setup. (jing9

via szetszwo)

HDFS-5974. Fix compilation error, NameNodeLayoutVersion and

DataNodeLayoutVersion after merge from trunk. (szetszwo)

HDFS-5963. TestRollingUpgrade#testSecondaryNameNode causes subsequent

tests to fail. (szetszwo via Arpit Agarwal)

HDFS-5976. Create unit tests for downgrade and finalize rolling upgrade.

(Haohui Mai via Arpit Agarwal)

HDFS-5980. Rollback does not need to load edits. (jing9 via szetszwo)

HDFS-5984. Fix TestEditLog and TestStandbyCheckpoints. (jing9 via szetszwo)

HDFS-5985. SimulatedFSDataset#disableAndPurgeTrashStorage should not throw

UnsupportedOperationException. (jing9 via kihwal)

HDFS-5987. Fix findbugs warnings in Rolling Upgrade branch. (seztszwo via

Arpit Agarwal)

HDFS-5992. Fix NPE in MD5FileUtils and update editsStored for

TestOfflineEditsViewer. (szetszwo)

HDFS-5994. Fix TestDataNodeRollingUpgrade. (Arpit Agarwal via szetszwo)

HDFS-5999. Do not create rollback fsimage when it already exists. (jing9)

HDFS-6005. Simplify Datanode rollback and downgrade. (Suresh Srinivas via

Arpit Agarwal)

HDFS-6004. Change DFSAdmin for rolling upgrade commands. (szetszwo via

Arpit Agarwal)

HDFS-5583. Make DN send an OOB Ack on shutdown before restarting. (kihwal)

HDFS-5778. Add rolling upgrade user document. (szetszwo)

HDFS-6003. Add the new -rollingUpgrade startup option to the namenode

usage message. (Vinayakumar B via szetszwo)

HDFS-6014. Fix findbug warnings introduced by HDFS-5583. (kihwal)

HDFS-6015. Fix TestBlockRecovery

#testRaceBetweenReplicaRecoveryAndFinalizeBlock. (kihwal)

HDFS-5924. Utilize OOB upgrade message processing for writes. (kihwal)

HDFS-5498. Improve datanode startup time. (kihwal)

HDFS-6000. Avoid saving namespace when starting rolling upgrade. (jing9)

HDFS-6017. Query the status of rolling upgrade in the preparation stage in

TestRollingUpgrade and TestRollingUpgradeRollback. (Haohui Mai via

Arpit Agarwal)

HDFS-6020. Fix the five findbugs warnings. (kihwal)

HDFS-6019. Standby NN might not checkpoint when processing the rolling

upgrade marker. (Haohui Mai via jing9)

HDFS-6023. Test whether the standby NN continues to checkpoint after the

prepare stage. (Haohui Mai via jing9)

HDFS-6024. Test whether the NN will reject the downgrade if it has a

fsimage from a newer release. (Haohui Mai via jing9)

HDFS-6026. Fix TestDFSUpgrade and TestDataNodeRollingUpgrade.

(jing9 via szetszwo)

HDFS-6029. Secondary NN fails to checkpoint after -rollingUpgrade prepare.

(jing9)

HDFS-6032. -rollingUpgrade query hits NPE after the NN restarts. (Haohui Mai

via jing9)

HDFS-6031. Add back the "-rollingUpgrade started" namenode startup option;

otherwise, namenode cannot start when the layout version is changed.

(szetszwo)

HDFS-6034. Use DataNodeLayoutVersion for DN registration check and do not

verify layout version if there is a rolling upgrade in progress. (szetszwo)

HDFS-6013. add rollingUpgrade information to latest UI.

(Vinayakumar B via wheat9)

HDFS-6042. Fix rolling upgrade documentation and error messages. (szetszwo

via Arpit Agarwal)

HDFS-6041. Downgrade/Finalize should rename the rollback image instead of

purging it. (jing9)

HDFS-6060. NameNode should not check DataNode layout version (brandonli)

HDFS-6076. DataNode with SimulatedDataSet should not create

DatanodeRegistration with namenode layout version and namenode node type.

(szetszwo)

HDFS-6038. Allow JournalNode to handle editlog produced by new release with

future layoutversion. (jing9)

HDFS-4564. Ensure webhdfs returns correct HTTP response codes for denied

operations. (daryn via acmurthy)

Release 2.3.1 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.3.0 - 2014-02-18

INCOMPATIBLE CHANGES

NEW FEATURES

HDFS-5122. Support failover and retry in WebHdfsFileSystem for NN HA.

(Haohui Mai via jing9)

HDFS-4953. Enable HDFS local reads via mmap.

(Colin Patrick McCabe via wang).

HDFS-5342. Provide more information in the FSNamesystem JMX interfaces.

(Haohui Mai via jing9)

HDFS-5334. Implement dfshealth.jsp in HTML pages. (Haohui Mai via jing9)

HDFS-5379. Update links to datanode information in dfshealth.html. (Haohui

Mai via jing9)

HDFS-5382. Implement the UI of browsing filesystems in HTML 5 page. (Haohui

Mai via jing9)

HDFS-3987. Support webhdfs over HTTPS. (Haohui Mai via jing9)

HDFS-5444. Choose default web UI based on browser capabilities. (Haohui Mai

via jing9)

HDFS-5514. FSNamesystem's fsLock should allow custom implementation (daryn)

HDFS-2832. Heterogeneous Storages support in HDFS phase 1 - treat DataNode

as a collection of storages (see breakdown of tasks below for features and

contributors).

HDFS-5703. Add support for HTTPS and swebhdfs to HttpFS. (tucu)

HDFS-4949. Centralized cache management in HDFS (wang and cmccabe)

IMPROVEMENTS

HDFS-5360. Improvement of usage message of renameSnapshot and

deleteSnapshot. (Shinichi Yamashita via wang)

HDFS-5331. make SnapshotDiff.java to a o.a.h.util.Tool interface implementation.

(Vinayakumar B via umamahesh)

HDFS-4657. Limit the number of blocks logged by the NN after a block

report to a configurable value. (Aaron T. Myers via Colin Patrick

McCabe)

HDFS-5344. Make LsSnapshottableDir as Tool interface implementation. (Sathish via umamahesh)

HDFS-5544. Adding Test case For Checking dfs.checksum type as NULL value. (Sathish via umamahesh)

HDFS-5568. Support includeSnapshots option with Fsck command. (Vinayakumar B via umamahesh)

HDFS-4983. Numeric usernames do not work with WebHDFS FS. (Yongjun Zhang via

jing9)

HDFS-5592. statechangeLog of completeFile should be logged only in case of success.

(Vinayakumar via umamahesh)

HDFS-5662. Can't decommission a DataNode due to file's replication factor

larger than the rest of the cluster size. (brandonli)

HDFS-5068. Convert NNThroughputBenchmark to a Tool to allow generic options.

(shv)

HDFS-5675. Add Mkdirs operation to NNThroughputBenchmark.

(Plamen Jeliazkov via shv)

HDFS-5677. Need error checking for HA cluster configuration.

(Vincent Sheffer via cos)

HDFS-5825. Use FileUtils.copyFile() to implement DFSTestUtils.copyFile().

(Haohui Mai via Arpit Agarwal)

HDFS-5267. Remove volatile from LightWeightHashSet. (Junping Du via llu)

HDFS-4278. Log an ERROR when DFS\_BLOCK\_ACCESS\_TOKEN\_ENABLE config is

disabled but security is turned on. (Kousuke Saruta via harsh)

HDFS-5004. Add additional JMX bean for NameNode status data. Contributed

by Trevor Lorimer.

HDFS-4994. Audit log getContentSummary() calls. (Robert Parker via kihwal)

HDFS-5144. Document time unit to NameNodeMetrics. (Akira Ajisaka via

suresh)

HDFS-4491. Parallel testing HDFS. (Andrey Klochkov via cnauroth)

HDFS-4879. Add "blocked ArrayList" collection to avoid CMS full GCs

(Todd Lipcon via Colin Patrick McCabe)

HDFS-4096. Add snapshot information to namenode WebUI. (Haohui Mai via

jing9)

HDFS-5188. In BlockPlacementPolicy, reduce the number of chooseTarget(..)

methods; replace HashMap with Map in parameter declarations and cleanup

some related code. (szetszwo)

HDFS-5207. In BlockPlacementPolicy.chooseTarget(..), change the writer

and the excludedNodes parameter types respectively to Node and Set.

(Junping Du via szetszwo)

HDFS-5240. Separate formatting from logging in the audit logger API (daryn)

HDFS-5191. Revisit zero-copy API in FSDataInputStream to make it more

intuitive. (Contributed by Colin Patrick McCabe)

HDFS-5260. Merge zero-copy memory-mapped HDFS client reads to trunk and

branch-2. (cnauroth)

HDFS-4517. Cover class RemoteBlockReader with unit tests. (Vadim Bondarev

and Dennis Y via kihwal)

HDFS-4512. Cover package org.apache.hadoop.hdfs.server.common with tests.

(Vadim Bondarev via kihwal)

HDFS-4510. Cover classes ClusterJspHelper/NamenodeJspHelper with unit

tests. (Andrey Klochkov via kihwal)

HDFS-5323. Remove some deadcode in BlockManager. (Colin Patrick McCabe)

HDFS-5338. Add a conf to disable hostname check in datanode registration.

(szetszwo)

HDFS-5130. Add test for snapshot related FsShell and DFSAdmin commands.

(Binglin Chang via jing9)

HDFS-5374. Remove deadcode in DFSOutputStream. (suresh)

HDFS-4511. Cover package org.apache.hadoop.hdfs.tools with unit test

(Andrey Klochkov via jeagles)

HDFS-4885. Improve the verifyBlockPlacement() API in BlockPlacementPolicy.

(Junping Du via szetszwo)

HDFS-5363. Refactor WebHdfsFileSystem: move SPENGO-authenticated connection

creation to URLConnectionFactory. (Haohui Mai via jing9)

HDFS-5436. Move HsFtpFileSystem and HFtpFileSystem into org.apache.hdfs.web

(Haohui Mai via Arpit Agarwal)

HDFS-5371. Let client retry the same NN when

"dfs.client.test.drop.namenode.response.number" is enabled. (jing9)

HDFS-5467. Remove tab characters in hdfs-default.xml.

(Shinichi Yamashita via Andrew Wang)

HDFS-5495. Remove further JUnit3 usages from HDFS.

(Jarek Jarcec Cecho via Andrew Wang)

HDFS-5325. Remove WebHdfsFileSystem#ConnRunner. (Haohui Mai via jing9)

HDFS-5488. Clean up TestHftpURLTimeout. (Haohui Mai via jing9)

HDFS-5440. Extract the logic of handling delegation tokens in HftpFileSystem

to the TokenAspect class. (Haohui Mai via jing9)

HDFS-5487. Introduce unit test for TokenAspect. (Haohui Mai via jing9)

HDFS-4995. Make getContentSummary less expensive. (kihwal)

HDFS-5506. Use URLConnectionFactory in DelegationTokenFetcher. (Haohui Mai

via jing9)

HDFS-5489. Use TokenAspect in WebHDFSFileSystem. (Haohui Mai via jing9)

HDFS-5393. Serve bootstrap and jQuery locally. (Haohui Mai via jing9)

HDFS-5073. TestListCorruptFileBlocks fails intermittently. (Arpit Agarwal)

HDFS-1386. TestJMXGet fails in jdk7 (jeagles)

HDFS-5532. Enable the webhdfs by default to support new HDFS web UI. (Vinay

via jing9)

HDFS-5525. Inline dust templates for new Web UI. (Haohui Mai via jing9)

HDFS-5561. FSNameSystem#getNameJournalStatus() in JMX should return plain

text instead of HTML. (Haohui Mai via jing9)

HDFS-5581. NameNodeFsck should use only one instance of

BlockPlacementPolicy. (vinay via cmccabe)

HDFS-5633. Improve OfflineImageViewer to use less memory. (jing9)

HDFS-5023. TestSnapshotPathINodes.testAllowSnapshot is failing with jdk7

(Mit Desai via jeagles)

HDFS-5637. Try to refeatchToken while local read InvalidToken occurred.

(Liang Xie via junping\_du)

HDFS-5652. Refactor invalid block token exception handling in DFSInputStream.

(Liang Xie via junping\_du)

HDFS-5350. Name Node should report fsimage transfer time as a metric.

(Jimmy Xiang via wang)

HDFS-5538. URLConnectionFactory should pick up the SSL related configuration

by default. (Haohui Mai via jing9)

HDFS-5545. Allow specifying endpoints for listeners in HttpServer. (Haohui

Mai via jing9)

HDFS-5536. Implement HTTP policy for Namenode and DataNode. (Haohui Mai via

jing9)

HDFS-5312. Generate HTTP / HTTPS URL in DFSUtil#getInfoServer() based on the

configured http policy. (Haohui Mai via jing9)

HDFS-5629. Support HTTPS in JournalNode and SecondaryNameNode.

(Haohui Mai via jing9)

HDFS-5674. Editlog code cleanup: remove @SuppressWarnings("deprecation") in

FSEditLogOp; change FSEditLogOpCodes.fromByte(..) to be more efficient; and

change Some fields in FSEditLog to final. (szetszwo)

HDFS-5634. Allow BlockReaderLocal to switch between checksumming and not

(cmccabe)

HDFS-5663 make the retry time and interval value configurable in openInfo()

(Liang Xie via stack)

HDFS-5540. Fix intermittent failure in TestBlocksWithNotEnoughRacks.

(Binglin Chang via junping\_du)

HDFS-5695. Clean up TestOfflineEditsViewer and OfflineEditsViewerHelper.

(Haohui Mai via jing9)

HDFS-5220. Expose group resolution time as metric (jxiang via cmccabe)

HDFS-5762. BlockReaderLocal doesn't return -1 on EOF when doing zero-length

reads (Colin Patrick McCabe)

HDFS-5766. In DFSInputStream, do not add datanode to deadNodes after

InvalidEncryptionKeyException in fetchBlockByteRange (Liang Xie via Colin

Patrick McCabe)

HDFS-5704. Change OP\_UPDATE\_BLOCKS with a new OP\_ADD\_BLOCK. (jing9)

HDFS-5784. Reserve space in edit log header and fsimage header for feature

flag section. (Colin Patrick McCabe)

HDFS-5434. Change block placement policy constructors from package private

to protected. (Buddy Taylor via Arpit Agarwal)

HDFS-5788. listLocatedStatus response can be very large. (Nathan Roberts

via kihwal)

HDFS-5841. Update HDFS caching documentation with new changes. (wang)

OPTIMIZATIONS

HDFS-5239. Allow FSNamesystem lock fairness to be configurable (daryn)

HDFS-5341. Reduce fsdataset lock duration during directory scanning.

(Qus-Jiawei via kihwal)

HDFS-5681. renewLease should not hold fsn write lock. (daryn via Kihwal)

HDFS-5241. Provide alternate queuing audit logger to reduce logging

contention (daryn)

BUG FIXES

HDFS-5307. Support both HTTP and HTTPS in jsp pages (Haohui Mai via

brandonli)

HDFS-5291. Standby namenode after transition to active goes into safemode.

(jing9)

HDFS-5317. Go back to DFS Home link does not work on datanode webUI

(Haohui Mai via brandonli)

HDFS-5316. Namenode ignores the default https port (Haohui Mai via

brandonli)

HDFS-5281. COMMIT request should not block. (brandonli)

HDFS-5337. should do hsync for a commit request even there is no pending

writes (brandonli)

HDFS-5335. Hive query failed with possible race in dfs output stream.

(Haohui Mai via suresh)

HDFS-5322. HDFS delegation token not found in cache errors seen on secure HA

clusters. (jing9)

HDFS-5329. Update FSNamesystem#getListing() to handle inode path in startAfter

token. (brandonli)

HDFS-5330. fix readdir and readdirplus for large directories (brandonli)

HDFS-5370. Typo in Error Message: different between range in condition

and range in error message. (Kousuke Saruta via suresh)

HDFS-5365. Fix libhdfs compile error on FreeBSD9. (Radim Kolar via cnauroth)

HDFS-5347. Add HDFS NFS user guide. (brandonli)

HDFS-5403. WebHdfs client cannot communicate with older WebHdfs servers

post HDFS-5306. (atm)

HDFS-5171. NFS should create input stream for a file and try to share it

with multiple read requests. (Haohui Mai via brandonli)

HDFS-5413. hdfs.cmd does not support passthrough to any arbitrary class.

(cnauroth)

HDFS-5433. When reloading fsimage during checkpointing, we should clear

existing snapshottable directories. (Aaron T. Myers via wang)

HDFS-5432. TestDatanodeJsp fails on Windows due to assumption that loopback

address resolves to host name localhost. (cnauroth)

HDFS-5065. TestSymlinkHdfsDisable fails on Windows. (ivanmi)

HDFS-4633 TestDFSClientExcludedNodes fails sporadically if excluded nodes

cache expires too quickly (Chris Nauroth via Sanjay)

HDFS-5037. Active NN should trigger its own edit log rolls. (wang)

HDFS-5035. getFileLinkStatus and rename do not correctly check permissions

of symlinks. (Andrew Wang via Colin Patrick McCabe)

HDFS-5456. NameNode startup progress creates new steps if caller attempts to

create a counter for a step that doesn't already exist. (cnauroth)

HDFS-5458. Datanode failed volume threshold ignored if exception is thrown

in getDataDirsFromURIs. (Mike Mellenthin via wang)

HDFS-5252. Stable write is not handled correctly in someplace. (brandonli)

HDFS-5364. Add OpenFileCtx cache. (brandonli)

HDFS-5469. Add configuration property for the sub-directroy export path

(brandonli)

HDFS-5519. COMMIT handler should update the commit status after sync

(brandonli)

HDFS-5372. In FSNamesystem, hasReadLock() returns false if the current

thread holds the write lock (Vinaykumar B via umamahesh)

HDFS-4516. Client crash after block allocation and NN switch before lease recovery for

the same file can cause readers to fail forever (VinaayKumar B via umamahesh)

HDFS-5014. Process register commands with out holding BPOfferService lock.

(Vinaykumar B via umamahesh)

HDFS-5288. Close idle connections in portmap (Haohui Mai via brandonli)

HDFS-5407. Fix typos in DFSClientCache (Haohui Mai via brandonli)

HDFS-5548. Use ConcurrentHashMap in portmap (Haohui Mai via brandonli)

HDFS-5577. NFS user guide update (brandonli)

HDFS-5563. NFS gateway should commit the buffered data when read request comes

after write to the same file (brandonli)

HDFS-4997. libhdfs doesn't return correct error codes in most cases (cmccabe)

HDFS-5587. add debug information when NFS fails to start with duplicate user

or group names (brandonli)

HDFS-5590. Block ID and generation stamp may be reused when persistBlocks is

set to false. (jing9)

HDFS-5353. Short circuit reads fail when dfs.encrypt.data.transfer is

enabled. (Colin Patrick McCabe via jing9)

HDFS-5283. Under construction blocks only inside snapshots should not be

counted in safemode threshhold. (Vinay via szetszwo)

HDFS-5257. addBlock() retry should return LocatedBlock with locations else client

will get AIOBE. (Vinay via jing9)

HDFS-5427. Not able to read deleted files from snapshot directly under

snapshottable dir after checkpoint and NN restart. (Vinay via jing9)

HDFS-5443. Delete 0-sized block when deleting an under-construction file that

is included in snapshot. (jing9)

HDFS-5476. Snapshot: clean the blocks/files/directories under a renamed

file/directory while deletion. (jing9)

HDFS-5425. Renaming underconstruction file with snapshots can make NN failure on

restart. (jing9 and Vinay)

HDFS-5474. Deletesnapshot can make Namenode in safemode on NN restarts.

(Sathish via jing9)

HDFS-5504. In HA mode, OP\_DELETE\_SNAPSHOT is not decrementing the safemode threshold,

leads to NN safemode. (Vinay via jing9)

HDFS-5428. Under construction files deletion after snapshot+checkpoint+nn restart

leads nn safemode. (jing9)

HDFS-5074. Allow starting up from an fsimage checkpoint in the middle of a

segment. (Todd Lipcon via atm)

HDFS-4201. NPE in BPServiceActor#sendHeartBeat. (jxiang via cmccabe)

HDFS-5666. Fix inconsistent synchronization in BPOfferService (jxiang via cmccabe)

HDFS-5657. race condition causes writeback state error in NFS gateway (brandonli)

HDFS-5661. Browsing FileSystem via web ui, should use datanode's fqdn instead of ip

address. (Benoy Antony via jing9)

HDFS-5582. hdfs getconf -excludeFile or -includeFile always failed (sathish

via cmccabe)

HDFS-5671. Fix socket leak in DFSInputStream#getBlockReader. (JamesLi via umamahesh)

HDFS-5649. Unregister NFS and Mount service when NFS gateway is shutting down.

(brandonli)

HDFS-5789. Some of snapshot APIs missing checkOperation double check in fsn. (umamahesh)

HDFS-5343. When cat command is issued on snapshot files getting unexpected result.

(Sathish via umamahesh)

HDFS-5297. Fix dead links in HDFS site documents. (Akira Ajisaka via

Arpit Agarwal)

HDFS-5830. WebHdfsFileSystem.getFileBlockLocations throws

IllegalArgumentException when accessing another cluster. (Yongjun Zhang via

Colin Patrick McCabe)

HDFS-5833. Fix SecondaryNameNode javadoc. (Bangtao Zhou via Arpit Agarwal)

HDFS-5844. Fix broken link in WebHDFS.apt.vm. (Akira Ajisaka via

Arpit Agarwal)

HDFS-5034. Remove debug prints from GetFileLinkInfo (Andrew Wang via Colin

Patrick McCabe)

HDFS-4816. transitionToActive blocks if the SBN is doing checkpoint image

transfer. (Andrew Wang)

HDFS-5164. deleteSnapshot should check if OperationCategory.WRITE is

possible before taking write lock. (Colin Patrick McCabe)

HDFS-5170. BlockPlacementPolicyDefault uses the wrong classname when

alerting to enable debug logging. (Andrew Wang)

HDFS-5266. ElasticByteBufferPool#Key does not implement equals. (cnauroth)

HDFS-5352. Server#initLog() doesn't close InputStream in httpfs. (Ted Yu via

jing9)

HDFS-4376. Fix race conditions in Balancer. (Junping Du via szetszwo)

HDFS-5375. hdfs.cmd does not expose several snapshot commands. (cnauroth)

HDFS-5336. DataNode should not output 'StartupProgress' metrics.

(Akira Ajisaka via cnauroth)

HDFS-5400. DFS\_CLIENT\_MMAP\_CACHE\_THREAD\_RUNS\_PER\_TIMEOUT constant is set

to the wrong value. (Colin Patrick McCabe)

HDFS-5075. httpfs-config.sh calls out incorrect env script name

(Timothy St. Clair via stevel)

HDFS-5438. Flaws in block report processing can cause data loss. (kihwal)

HDFS-5502. Fix HTTPS support in HsftpFileSystem. (Haohui Mai via jing9)

HDFS-5552. Fix wrong information of "Cluster summay" in dfshealth.html.

(Haohui Mai via jing9)

HDFS-5533. Symlink delete/create should be treated as DELETE/CREATE in snapshot diff

report. (Binglin Chang via jing9)

HDFS-5580. Fix infinite loop in Balancer.waitForMoveCompletion.

(Binglin Chang via junping\_du)

HDFS-5676. fix inconsistent synchronization of CachingStrategy (cmccabe)

HDFS-5691. Fix typo in ShortCircuitLocalRead document.

(Akira Ajisaka via suresh)

HDFS-5690. DataNode fails to start in secure mode when dfs.http.policy equals to

HTTP\_ONLY. (Haohui Mai via jing9)

HDFS-5449. WebHdfs compatibility broken between 2.2 and 1.x / 23.x (kihwal)

HDFS-5756. hadoopRzOptionsSetByteBufferPool does not accept NULL argument,

contrary to docs. (cmccabe via wang)

HDFS-5747. Fix NPEs in BlockManager. (Arpit Agarwal)

HDFS-5710. FSDirectory#getFullPathName should check inodes against null.

(Uma Maheswara Rao G via jing9)

HDFS-5579. Under construction files make DataNode decommission take very long

hours. (zhaoyunjiong via jing9)

HDFS-5777. Update LayoutVersion for the new editlog op OP\_ADD\_BLOCK. (jing9)

HDFS-5800. Fix a typo in DFSClient.renewLease(). (Kousuke Saruta

via szetszwo)

HDFS-5748. Too much information shown in the dfs health page.

(Haohui Mai via brandonli)

HDFS-5806. Balancer should set SoTimeout to avoid indefinite hangs.

(Nathan Roberts via Andrew Wang)

HDFS-5728. Block recovery will fail if the metafile does not have crc

for all chunks of the block (Vinay via kihwal)

HDFS-5719. FSImage#doRollback() should close prevState before return

(Ted Yu via todd)

HDFS-5721. sharedEditsImage in Namenode#initializeSharedEdits() should be

closed before method returns (Ted Yu via todd)

HDFS-5845. SecondaryNameNode dies when checkpointing with cache pools.

(wang)

HDFS-5842. Cannot create hftp filesystem when using a proxy user ugi and a doAs

on a secure cluster. (jing9)

HDFS-5399. Revisit SafeModeException and corresponding retry policies.

(Jing Zhao via todd)

HDFS-5876. SecureDataNodeStarter does not pick up configuration in

hdfs-site.xml. (Haohui Mai via jing9)

HDFS-5873. dfs.http.policy should have higher precedence over dfs.https.enable.

(Haohui Mai via jing9)

HDFS-5837. dfs.namenode.replication.considerLoad should consider

decommissioned nodes. (Tao Luo via shv)

HDFS-5921. Cannot browse file system via NN web UI if any directory has

the sticky bit set. (atm)

BREAKDOWN OF HDFS-2832 SUBTASKS AND RELATED JIRAS

HDFS-4985. Add storage type to the protocol and expose it in block report

and block locations. (Arpit Agarwal)

HDFS-5115. Make StorageID a UUID. (Arpit Agarwal)

HDFS-5000. DataNode configuration should allow specifying storage type.

(Arpit Agarwal)

HDFS-4987. Namenode changes to track multiple storages per datanode.

(szetszwo)

HDFS-5154. Fix TestBlockManager and TestDatanodeDescriptor after HDFS-4987.

(Junping Du via szetszwo)

HDFS-5009. Include storage information in the LocatedBlock. (szetszwo)

HDFS-5134. Move blockContentsStale, heartbeatedSinceFailover and

firstBlockReport from DatanodeDescriptor to DatanodeStorageInfo; and

fix a synchronization problem in DatanodeStorageInfo. (szetszwo)

HDFS-5157. Add StorageType to FsVolume. (Junping Du via szetszwo)

HDFS-4990. Change BlockPlacementPolicy to choose storages instead of

datanodes. (szetszwo)

HDFS-5232. Protocol changes to transmit StorageUuid. (Arpit Agarwal)

HDFS-5233. Use Datanode UUID to identify Datanodes. (Arpit Agarwal)

HDFS-5222. Move block schedule information from DatanodeDescriptor to

DatanodeStorageInfo. (szetszwo)

HDFS-4988. Datanode must support all the volumes as individual storages.

(Arpit Agarwal)

HDFS-5377. Heartbeats from Datandode should include one storage report

per storage directory. (Arpit Agarwal)

HDFS-5398. NameNode changes to process storage reports per storage

directory. (Arpit Agarwal)

HDFS-5390. Send one incremental block report per storage directory.

(Arpit Agarwal)

HDFS-5401. Fix NPE in Directory Scanner. (Arpit Agarwal)

HDFS-5417. Fix storage IDs in PBHelper and UpgradeUtilities. (szetszwo)

HDFS-5214. Fix NPEs in BlockManager and DirectoryScanner. (Arpit Agarwal)

HDFS-5435. File append fails to initialize storageIDs. (Junping Du via

Arpit Agarwal)

HDFS-5437. Fix TestBlockReport and TestBPOfferService failures. (Arpit

Agarwal)

HDFS-5447. Fix TestJspHelper. (Arpit Agarwal)

HDFS-5452. Fix TestReplicationPolicy and TestBlocksScheduledCounter.

HDFS-5448. Datanode should generate its ID on first registration. (Arpit

Agarwal)

HDFS-5448. Fix break caused by previous checkin for HDFS-5448. (Arpit

Agarwal)

HDFS-5455. NN should update storageMap on first heartbeat. (Arpit Agarwal)

HDFS-5457. Fix TestDatanodeRegistration, TestFsck and TestAddBlockRetry.

(Contributed by szetszwo)

HDFS-5466. Update storage IDs when the pipeline is updated. (Contributed

by szetszwo)

HDFS-5439. Fix TestPendingReplication. (Contributed by Junping Du, Arpit

Agarwal)

HDFS-5470. Add back trunk's reportDiff algorithm to the branch.

(Contributed by szetszwo)

HDFS-5472. Fix TestDatanodeManager, TestSafeMode and

TestNNThroughputBenchmark (Contributed by szetszwo)

HDFS-5475. NN incorrectly tracks more than one replica per DN. (Arpit

Agarwal)

HDFS-5481. Fix TestDataNodeVolumeFailure in branch HDFS-2832. (Contributed

by Junping Du)

HDFS-5480. Update Balancer for HDFS-2832. (Contributed by szetszwo)

HDFS-5486. Fix TestNameNodeMetrics for HDFS-2832. (Arpit Agarwal)

HDFS-5491. Update editsStored for HDFS-2832. (Arpit Agarwal)

HDFS-5494. Fix findbugs warnings for HDFS-2832. (Arpit Agarwal)

HDFS-5508. Fix compilation error after merge. (Contributed by szetszwo)

HDFS-5501. Fix pendingReceivedRequests tracking in BPServiceActor. (Arpit

Agarwal)

HDFS-5510. Fix a findbug warning in DataStorage.java on HDFS-2832 branch.

(Junping Du via Arpit Agarwal)

HDFS-5515. Fix TestDFSStartupVersions for HDFS-2832. (Arpit Agarwal)

HDFS-5527. Fix TestUnderReplicatedBlocks on branch HDFS-2832. (Arpit

Agarwal)

HDFS-5547. Fix build break after merge from trunk to HDFS-2832. (Arpit

Agarwal)

HDFS-5542. Fix TODO and clean up the code in HDFS-2832. (Contributed by

szetszwo)

HDFS-5559. Fix TestDatanodeConfig in HDFS-2832. (Contributed by szetszwo)

HDFS-5484. StorageType and State in DatanodeStorageInfo in NameNode is

not accurate. (Eric Sirianni via Arpit Agarwal)

HDFS-5648. Get rid of FsDatasetImpl#perVolumeReplicaMap. (Arpit Agarwal)

HDFS-5454. DataNode UUID should be assigned prior to FsDataset

initialization. (Arpit Agarwal)

HDFS-5406. Send incremental block reports for all storages in a

single call. (Arpit Agarwal)

HDFS-5667. Include DatanodeStorage in StorageReport. (Arpit Agarwal)

BREAKDOWN OF HDFS-4949 SUBTASKS AND RELATED JIRAS

HDFS-5049. Add JNI mlock support. (Andrew Wang via Colin Patrick McCabe)

HDFS-5051. Propagate cache status information from the DataNode to the

NameNode (Andrew Wang via Colin Patrick McCabe)

HDFS-5052. Add cacheRequest/uncacheRequest support to NameNode.

(Contributed by Colin Patrick McCabe.)

HDFS-5050. Add DataNode support for mlock and munlock (contributed by

Andrew Wang)

HDFS-5141. Add cache status information to datanode heartbeat. (Contributed

by Andrew Wang)

HDFS-5121. Add RPCs for creating and manipulating cache pools.

(Contributed by Colin Patrick McCabe)

HDFS-5163. Miscellaneous cache pool RPC fixes (Contributed by Colin Patrick

McCabe)

HDFS-5169. hdfs.c: translateZCRException: null pointer deref when

translating some exceptions (Contributed by Colin Patrick McCabe)

HDFS-5120. Add command-line support for manipulating cache pools. (cmccabe)

HDFS-5158. Add command-line support for manipulating cache directives.

(cmccabe)

HDFS-5198. NameNodeRpcServer must not send back DNA\_FINALIZE in reply to a

cache report. (cmccabe)

HDFS-5195. Prevent passing null pointer to mlock and munlock. Contributed

by Chris Nauroth.

HDFS-5053. NameNode should invoke DataNode APIs to coordinate caching.

(Andrew Wang)

HDFS-5201. NativeIO: consolidate getrlimit into NativeIO#getMemlockLimit.

(Contributed by Colin Patrick McCabe)

HDFS-5197. Document dfs.cachereport.intervalMsec in hdfs-default.xml.

Contributed by Chris Nauroth.

HDFS-5210. Fix some failing unit tests on HDFS-4949 branch. (Contributed by

Andrew Wang)

HDFS-5213. Separate PathBasedCacheEntry and PathBasedCacheDirectiveWithId.

Contributed by Colin Patrick McCabe.

HDFS-5236. Change PathBasedCacheDirective APIs to be a single value rather

than batch. (Contributed by Andrew Wang)

HDFS-5119. Persist CacheManager state in the edit log. (Contributed by

Andrew Wang)

HDFS-5190. Move cache pool related CLI commands to CacheAdmin. (Contributed

by Andrew Wang)

HDFS-5309. Fix failing caching unit tests. (Andrew Wang)

HDFS-5314. Do not expose CachePool type in AddCachePoolOp (Colin Patrick

McCabe)

HDFS-5304. Expose if a block replica is cached in getFileBlockLocations.

(Contributed by Andrew Wang)

HDFS-5224. Refactor PathBasedCache\* methods to use a Path rather than a

String. Contributed by Chris Nauroth.

HDFS-5348. Fix error message when dfs.datanode.max.locked.memory is

improperly configured. (Contributed by Colin Patrick McCabe)

HDFS-5349. DNA\_CACHE and DNA\_UNCACHE should be by blockId only (cmccabe)

HDFS-5358. Add replication field to PathBasedCacheDirective. (Contributed

by Colin Patrick McCabe)

HDFS-5359. Allow LightWeightGSet#Iterator to remove elements. (Contributed

by Colin Patrick McCabe)

HDFS-5373. hdfs cacheadmin -addDirective short usage does not mention

-replication parameter. Contributed by Chris Nauroth.

HDFS-5096. Automatically cache new data added to a cached path (contributed

by Colin Patrick McCabe)

HDFS-5383. fix broken caching unit tests (Andrew Wang)

HDFS-5388. Loading fsimage fails to find cache pools during namenode

startup (Chris Nauroth via Colin Patrick McCabe)

HDFS-5203. Concurrent clients that add a cache directive on the same path

may prematurely uncache each other. (Chris Nauroth via Colin Patrick McCabe)

HDFS-5378. In CacheReport, don't send genstamp and length on the wire

(Contributed by Colin Patrick McCabe)

HDFS-5385. Caching RPCs are AtMostOnce, but do not persist client ID and

call ID to edit log. (Chris Nauroth via Colin Patrick McCabe)

HDFS-5404 Resolve regressions in Windows compatibility on HDFS-4949 branch.

Contributed by Chris Nauroth.

HDFS-5405. Fix possible RetryCache hang for caching RPC handlers in

FSNamesystem. (Contributed by Andrew Wang)

HDFS-5419. Fixup test-patch.sh warnings on HDFS-4949 branch. (wang)

HDFS-5386. Add feature documentation for datanode caching. Contributed by

Colin Patrick McCabe.

HDFS-5468. CacheAdmin help command does not recognize commands (Stephen

Chu via Colin Patrick McCabe)

HDFS-5326. add modifyDirective to cacheAdmin (cmccabe)

HDFS-5394: Fix race conditions in DN caching and uncaching (cmccabe)

HDFS-5320. Add datanode caching metrics. Contributed by Andrew Wang.

HDFS-5482. DistributedFileSystem#listPathBasedCacheDirectives must support

relative paths. Contributed by Colin Patrick McCabe.

HDFS-5471. CacheAdmin -listPools fails when user lacks permissions to view

all pools (Andrew Wang via Colin Patrick McCabe)

HDFS-5450. better API for getting the cached blocks locations. Contributed

by Andrew Wang.

HDFS-5485. add command-line support for modifyDirective (cmccabe)

HDFS-5366. recaching improvements (cmccabe)

HDFS-5520. loading cache path directives from edit log doesnt update

nextEntryId (cmccabe)

HDFS-5512. CacheAdmin -listPools fails with NPE when user lacks permissions

to view all pools (awang via cmccabe)

HDFS-5513. CacheAdmin commands fail when using . as the path. Contributed

by Andrew Wang.

HDFS-5511. improve CacheManipulator interface to allow better unit testing

(cmccabe)

HDFS-5451. Add byte and file statistics to PathBasedCacheEntry. Contributed

by Colin Patrick McCabe.

HDFS-5473. Consistent naming of user-visible caching classes and methods

(cmccabe)

HDFS-5543. Fix narrow race condition in TestPathBasedCacheRequests

(cmccabe)

HDFS-5565. CacheAdmin help should match against non-dashed commands (wang

via cmccabe)

HDFS-5556. Add some more NameNode cache statistics, cache pool stats

(cmccabe)

HDFS-5562. TestCacheDirectives and TestFsDatasetCache should stub out

native mlock. Contributed by Colin Patrick McCabe and Akira Ajisaka.

HDFS-5430. Support TTL on CacheDirectives. Contributed by Andrew Wang.

HDFS-5555. CacheAdmin commands fail when first listed NameNode is in

Standby (jxiang via cmccabe)

HDFS-5626. dfsadmin report shows incorrect values (cmccabe)

HDFS-5630. Hook up cache directive and pool usage statistics. (wang)

HDFS-5665. Remove the unnecessary writeLock while initializing CacheManager

in FsNameSystem Ctor. (Uma Maheswara Rao G via Andrew Wang)

HDFS-5431. Support cachepool-based limit management in path-based caching.

(awang via cmccabe)

HDFS-5679. TestCacheDirectives should handle the case where native code is

not available. (wang)

HDFS-5636. Enforce a max TTL per cache pool (awang via cmccabe)

HDFS-5701. Fix the CacheAdmin -addPool -maxTtl option name. Contributed by

Stephen Chu.

HDFS-5708. The CacheManager throws a NPE in the DataNode logs when

processing cache reports that refer to a block not known to the BlockManager.

Contributed by Colin Patrick McCabe.

HDFS-5659. dfsadmin -report doesn't output cache information properly.

Contributed by Andrew Wang.

HDFS-5651. Remove dfs.namenode.caching.enabled and improve CRM locking.

Contributed by Colin Patrick McCabe.

HDFS-5589. Namenode loops caching and uncaching when data should be

uncached. (awang via cmccabe)

HDFS-5724. modifyCacheDirective logging audit log command wrongly as

addCacheDirective (Uma Maheswara Rao G via Colin Patrick McCabe)

Release 2.2.0 - 2013-10-13

INCOMPATIBLE CHANGES

NEW FEATURES

HDFS-4817. Make HDFS advisory caching configurable on a per-file basis.

(Colin Patrick McCabe)

HDFS-5230. Introduce RpcInfo to decouple XDR classes from the RPC API.

(Haohui Mai via brandonli)

IMPROVEMENTS

HDFS-5246. Make Hadoop nfs server port and mount daemon port

configurable. (Jinghui Wang via brandonli)

HDFS-5256. Use guava LoadingCache to implement DFSClientCache. (Haohui Mai

via brandonli)

HDFS-5308. Replace HttpConfig#getSchemePrefix with implicit schemes in HDFS

JSP. (Haohui Mai via jing9)

OPTIMIZATIONS

BUG FIXES

HDFS-5139. Remove redundant -R option from setrep.

HDFS-5251. Race between the initialization of NameNode and the http

server. (Haohui Mai via suresh)

HDFS-5258. Skip tests in TestHDFSCLI that are not applicable on Windows.

(Chuan Liu via cnauroth)

HDFS-5186. TestFileJournalManager fails on Windows due to file handle leaks.

(Chuan Liu via cnauroth)

HDFS-5031. BlockScanner scans the block multiple times. (Vinay via Arpit

Agarwal)

HDFS-5268. NFS write commit verifier is not set in a few places (brandonli)

HDFS-5265. Namenode fails to start when dfs.https.port is unspecified.

(Haohui Mai via jing9)

HDFS-5255. Distcp job fails with hsftp when https is enabled in insecure

cluster. (Arpit Agarwal)

HDFS-5279. Guard against NullPointerException in NameNode JSP pages before

initialization of FSNamesystem. (cnauroth)

HDFS-5289. Race condition in TestRetryCacheWithHA#testCreateSymlink causes

spurious test failure. (atm)

HDFS-5300. FSNameSystem#deleteSnapshot() should not check owner in case of

permissions disabled. (Vinay via jing9)

HDFS-5306. Datanode https port is not available at the namenode. (Suresh

Srinivas via brandonli)

HDFS-5299. DFS client hangs in updatePipeline RPC when failover happened.

(Vinay via jing9)

HDFS-5259. Support client which combines appended data with old data

before sends it to NFS server. (brandonli)

Release 2.1.1-beta - 2013-09-23

INCOMPATIBLE CHANGES

NEW FEATURES

HDFS-4962 Use enum for nfs constants (Nicholas SZE via jing9)

HDFS-5071 Change hdfs-nfs parent project to hadoop-project (brandonli)

HDFS-4763 Add script changes/utility for starting NFS gateway (brandonli)

HDFS-5076 Add MXBean methods to query NN's transaction information and

JournalNode's journal status. (jing9)

HDFS-5104 Support dotdot name in NFS LOOKUP operation (brandonli)

HDFS-5107 Fix array copy error in Readdir and Readdirplus responses

(brandonli)

HDFS-5110 Change FSDataOutputStream to HdfsDataOutputStream for opened

streams to fix type cast error. (brandonli)

HDFS-5069 Include hadoop-nfs and hadoop-hdfs-nfs into hadoop dist for

NFS deployment (brandonli)

HDFS-4947 Add NFS server export table to control export by hostname or

IP range (Jing Zhao via brandonli)

HDFS-5078 Support file append in NFSv3 gateway to enable data streaming

to HDFS (brandonli)

HDFS-5136 MNT EXPORT should give the full group list which can mount the

exports (brandonli)

HDFS-5118. Provide testing support for DFSClient to drop RPC responses.

(jing9)

HDFS-5085. Refactor o.a.h.nfs to support different types of

authentications. (jing9)

HDFS-5067 Support symlink operations in NFS gateway. (brandonli)

HDFS-5199 Add more debug trace for NFS READ and WRITE. (brandonli)

HDFS-5234 Move RpcFrameDecoder out of the public API.

(Haohui Mai via brandonli)

IMPROVEMENTS

HDFS-4513. Clarify in the WebHDFS REST API that all JSON respsonses may

contain additional properties. (szetszwo)

HDFS-5061. Make FSNameSystem#auditLoggers an unmodifiable list.

(Arpit Agarwal via suresh)

HDFS-4905. Add appendToFile command to "hdfs dfs". (Arpit Agarwal via

cnauroth)

HDFS-4926. Namenode webserver's page has a tooltip that is inconsistent

with the datanode HTML link. (Vivek Ganesan via jing9)

HDFS-5047. Supress logging of full stack trace of quota and lease

exceptions. (Robert Parker via kihwal)

HDFS-2933. Improve DataNode Web UI Index Page. (Vivek Ganesan via

Arpit Agarwal)

HDFS-5111. Remove duplicated error message for snapshot commands when

processing invalid arguments. (jing9)

HDFS-5045. Add more unit tests for retry cache to cover all AtMostOnce

methods. (jing9)

HDFS-3245. Add metrics and web UI for cluster version summary. (Ravi

Prakash via kihwal)

HDFS-5128. Allow multiple net interfaces to be used with HA namenode RPC

server. (kihwal)

HDFS-5150. Allow per NN SPN for internal SPNEGO. (kihwal)

HDFS-4680. Audit logging of delegation tokens for MR tracing. (Andrew Wang)

HDFS-5212. Refactor RpcMessage and NFS3Response to support different

types of authentication information. (jing9)

HDFS-4971. Move IO operations out of locking in OpenFileCtx. (brandonli and

jing9)

OPTIMIZATIONS

BUG FIXES

HDFS-5028. LeaseRenewer throws ConcurrentModificationException when timeout.

(zhaoyunjiong via szetszwo)

HDFS-5043. For HdfsFileStatus, set default value of childrenNum to -1

instead of 0 to avoid confusing applications. (brandonli)

HDFS-4993. Fsck can fail if a file is renamed or deleted. (Robert Parker

via kihwal)

HDFS-5091. Support for spnego keytab separate from the JournalNode keytab

for secure HA. (jing9)

HDFS-5055. nn fails to download checkpointed image from snn in some

setups. (Vinay and suresh via suresh)

HDFS-4898. BlockPlacementPolicyWithNodeGroup.chooseRemoteRack() fails to

properly fallback to local rack. (szetszwo)

HDFS-4632. globStatus using backslash for escaping does not work on Windows.

(Chuan Liu via cnauroth)

HDFS-5093. TestGlobPaths should re-use the MiniDFSCluster to avoid failure

on Windows. (Chuan Liu via cnauroth)

HDFS-5080. BootstrapStandby not working with QJM when the existing NN is

active. (jing9)

HDFS-5099. Namenode#copyEditLogSegmentsToSharedDir should close

EditLogInputStreams upon finishing. (Chuan Liu via cnauroth)

HDFS-2994. If lease soft limit is recovered successfully

the append can fail. (Tao Luo via shv)

HDFS-5100. TestNamenodeRetryCache fails on Windows due to incorrect cleanup.

(Chuan Liu via cnauroth)

HDFS-5103. TestDirectoryScanner fails on Windows. (Chuan Liu via cnauroth)

HDFS-5102. Snapshot names should not be allowed to contain slash characters.

(jing9)

HDFS-5105. TestFsck fails on Windows. (Chuan Liu via arp)

HDFS-5106. TestDatanodeBlockScanner fails on Windows due to incorrect path

format. (Chuan Liu via cnauroth)

HDFS-4594. WebHDFS open sets Content-Length header to what is specified by

length parameter rather than how much data is actually returned. (cnauroth)

HDFS-5124. DelegationTokenSecretManager#retrievePassword can cause deadlock

in NameNode. (Daryn Sharp via jing9)

HDFS-5132. Deadlock in NameNode between SafeModeMonitor#run and

DatanodeManager#handleHeartbeat. (kihwal)

HDFS-5077. NPE in FSNamesystem.commitBlockSynchronization().

(Plamen Jeliazkov via shv)

HDFS-5140. Too many safemode monitor threads being created in the standby

namenode causing it to fail with out of memory error. (jing9)

HDFS-5159. Secondary NameNode fails to checkpoint if error occurs

downloading edits on first checkpoint. (atm)

HDFS-5192. NameNode may fail to start when

dfs.client.test.drop.namenode.response.number is set. (jing9)

HDFS-5219. Add configuration keys for retry policy in WebHDFSFileSystem.

(Haohui Mai via jing9)

HDFS-5231. Fix broken links in the document of HDFS Federation. (Haohui Mai

via jing9)

HDFS-5249. Fix dumper thread which may die silently. (brandonli)

Release 2.1.0-beta - 2013-08-22

INCOMPATIBLE CHANGES

HDFS-4053. Increase the default block size. (eli)

HDFS-4305. Add a configurable limit on number of blocks per file, and min

block size. (Andrew Wang via atm)

HDFS-4434. Provide a mapping from INodeId to INode. (suresh)

HDFS-2802. Add HDFS Snapshot feature. (See breakdown of tasks below for

subtasks and contributors)

HDFS-4866. Protocol buffer support cannot compile under C. (Arpit Agarwal via

cnauroth)

HDFS-5083. Update the HDFS compatibility version range. (kihwal)

NEW FEATURES

HDFS-1804. Add a new block-volume device choosing policy that looks at

free space. (atm)

HDFS-4296. Reserve layout version for release 1.2.0. (suresh)

HDFS-4334. Add a unique id to INode. (Brandon Li via szetszwo)

HDFS-4339. Persist inode id in fsimage and editlog. (Brandon Li via

suresh)

HDFS-4340. Update addBlock() to inculde inode id as additional argument.

(Brandon Li via suresh)

HDFS-4502. JsonUtil.toFileStatus(..) should check if the fileId property

exists. (Brandon Li via suresh)

HDFS-2576. Enhances the DistributedFileSystem's create API so that clients

can specify favored datanodes for a file's blocks. (ddas)

HDFS-347. DFS read performance suboptimal when client co-located on nodes

with data. (Colin Patrick McCabe via todd and atm)

HADOOP-8562. Enhancements to support Hadoop on Windows Server and Windows

Azure environments. (See breakdown of tasks below for subtasks and

contributors)

HDFS-3601. Add BlockPlacementPolicyWithNodeGroup to support block placement

with 4-layer network topology. (Junping Du via szetszwo)

HDFS-3495. Update Balancer to support new NetworkTopology with NodeGroup.

(Junping Du via szetszwo)

HDFS-4659 Support setting execution bit for regular files (Brandon Li via sanjay)

HDFS-4762 Provide HDFS based NFSv3 and Mountd implementation (brandonli)

HDFS-4372. Track NameNode startup progress. (cnauroth)

HDFS-4373. Add HTTP API for querying NameNode startup progress. (cnauroth)

HDFS-4374. Display NameNode startup progress in UI. (cnauroth)

HDFS-4974. Add Idempotent and AtMostOnce annotations to namenode

protocol methods. (suresh)

HDFS-4979. Implement retry cache on Namenode. (suresh)

HDFS-5025. Record ClientId and CallId in EditLog to enable rebuilding

retry cache in case of HA failover. (Jing Zhao via suresh)

IMPROVEMENTS

HDFS-4461. DirectoryScanner: volume path prefix takes up memory for every

block that is scanned (Colin Patrick McCabe)

HDFS-4222. NN is unresponsive and loses heartbeats from DNs when

configured to use LDAP and LDAP has issues. (Xiaobo Peng, suresh)

HDFS-4304. Make FSEditLogOp.MAX\_OP\_SIZE configurable. (Colin Patrick

McCabe via atm)

HDFS-4518. Finer grained metrics for HDFS capacity.

(Arpit Agarwal via suresh)

HDFS-4519. Support overriding jsvc binary and log file locations

when launching secure datanode. (Chris Nauroth via suresh)

HDFS-4569. Small image transfer related cleanups.

(Andrew Wang via suresh)

HDFS-4521. Invalid network toploogies should not be cached. (Colin Patrick

McCabe via atm)

HDFS-4246. The exclude node list should be more forgiving, for each output

stream. (harsh via atm)

HDFS-4635. Move BlockManager#computeCapacity to LightWeightGSet. (suresh)

HDFS-4621. Additional logging to help diagnose slow QJM syncs. (todd)

HDFS-4618. Default transaction interval for checkpoints is too low. (todd)

HDFS-4525. Provide an API for knowing that whether file is closed or not.

(SreeHari via umamahesh)

HDFS-3940. Add Gset#clear method and clear the block map when namenode is

shutdown. (suresh)

HDFS-4679. Namenode operation checks should be done in a consistent

manner. (suresh)

HDFS-4693. Some test cases in TestCheckpoint do not clean up after

themselves. (Arpit Agarwal, suresh via suresh)

HDFS-3817. Avoid printing SafeModeException stack trace.

(Brandon Li via suresh)

HDFS-4124. Refactor INodeDirectory#getExistingPathINodes() to enable

returning more than INode array. (Jing Zhao via suresh)

HDFS-4151. Change the methods in FSDirectory to pass INodesInPath instead

of INode[] as a parameter. (szetszwo)

HDFS-4129. Add utility methods to dump NameNode in memory tree for

testing. (szetszwo via suresh)

HDFS-4152. Add a new class BlocksMapUpdateInfo for the parameter in

INode.collectSubtreeBlocksAndClear(..). (Jing Zhao via szetszwo)

HDFS-4206. Change the fields in INode and its subclasses to private.

(szetszwo)

HDFS-4215. Remove locking from addToParent(..) since it is used in image

loading, and add INode.isFile(). (szetszwo)

HDFS-4243. When replacing an INodeDirectory, the parent pointers of the

children of the child have to be updated to the new child. (Jing Zhao

via szetszwo)

HDFS-4209. Clean up the addNode/addChild/addChildNoQuotaCheck methods in

FSDirectory and INodeDirectory. (szetszwo)

HDFS-4346. Add SequentialNumber as a base class for INodeId and

GenerationStamp. (szetszwo)

HDFS-4721. Speed up lease recovery by avoiding stale datanodes and choosing

the datanode with the most recent heartbeat as the primary. (Varun Sharma

via szetszwo)

HDFS-4804. WARN when users set the block balanced preference percent below

0.5 or above 1.0. (Stephen Chu via atm)

HDFS-4698. Provide client-side metrics for remote reads, local reads, and

short-circuit reads. (Colin Patrick McCabe via atm)

HDFS-3498. Support replica removal in BlockPlacementPolicy and make

BlockPlacementPolicyDefault extensible for reusing code in subclasses.

(Junping Du via szetszwo)

HDFS-4234. Use generic code for choosing datanode in Balancer. (szetszwo)

HDFS-4880. Print the image and edits file loaded by the namenode in the

logs. (Arpit Agarwal via suresh)

HDFS-2572. Remove unnecessary double-check in DN#getHostName. (harsh)

HDFS-2857. Cleanup BlockInfo class. (suresh)

HDFS-3009. Remove duplicate code in DFSClient#isLocalAddress by using

NetUtils. (Hari Mankude via suresh)

HDFS-4914. Use DFSClient.Conf instead of Configuration. (szetszwo)

HDFS-4883. complete() should verify fileId. (Tao Luo via shv)

HDFS-4772. Add number of children in HdfsFileStatus. (brandonli)

HDFS-4932. Avoid a wide line on the name node webUI if we have more Journal

nodes. (Fengdong Yu via cnauroth)

HDFS-4908. Reduce snapshot inode memory usage. (szetszwo)

HDFS-4645. Move from randomly generated block ID to sequentially generated

block ID. (Arpit Agarwal via szetszwo)

HDFS-4912. Cleanup FSNamesystem#startFileInternal. (suresh)

HDFS-4903. Print trash configuration and trash emptier state in

namenode log. (Arpit Agarwal via suresh)

HDFS-4992. Make balancer's mover thread count and dispatcher thread count

configurable. (Max Lapan via szetszwo)

HDFS-4996. ClientProtocol#metaSave can be made idempotent by overwriting the

output file instead of appending to it. (cnauroth)

HADOOP-9418. Add symlink support to DistributedFileSystem (Andrew Wang via

Colin Patrick McCabe)

HDFS-5007. Replace hard-coded property keys with DFSConfigKeys fields.

(Kousuke Saruta via jing9)

HDFS-5008. Make ClientProtocol#abandonBlock() idempotent. (jing9)

HADOOP-9760. Move GSet and related classes to common from HDFS.

(suresh)

HDFS-5020. Make DatanodeProtocol#blockReceivedAndDeleted idempotent.

(jing9)

HDFS-5024. Make DatanodeProtocol#commitBlockSynchronization idempotent.

(Arpit Agarwal via jing9)

HDFS-3880. Use Builder to build RPC server in HDFS.

(Brandon Li and Junping Du via szetszwo)

OPTIMIZATIONS

HDFS-4465. Optimize datanode ReplicasMap and ReplicaInfo. (atm)

HDFS-5027. On startup, DN should scan volumes in parallel. (atm)

BUG FIXES

HDFS-4626. ClientProtocol#getLinkTarget should throw an exception for

non-symlink and non-existent paths. (Andrew Wang via cmccabe)

HDFS-3934. duplicative dfs\_hosts entries handled wrong. (Colin Patrick

McCabe)

HDFS-4470. Several HDFS tests attempt file operations on invalid HDFS

paths when running on Windows. (Chris Nauroth via suresh)

HDFS-4471. Namenode WebUI file browsing does not work with wildcard

addresses configured. (Andrew Wang via atm)

HDFS-4342. Directories configured in dfs.namenode.edits.dir.required

but not in dfs.namenode.edits.dir are silently ignored. (Arpit Agarwal

via szetszwo)

HDFS-4482. ReplicationMonitor thread can exit with NPE due to the race

between delete and replication of same file. (umamahesh)

HDFS-4269. Datanode rejects all datanode registrations from localhost

in single-node developer setup on Windows. (Chris Nauroth via suresh)

HDFS-4235. When outputting XML, OfflineEditsViewer can't handle some edits

containing non-ASCII strings. (Colin Patrick McCabe via atm)

HDFS-4541. Set hadoop.log.dir and hadoop.id.str when starting secure

datanode to write the logs to right dir by default. (Arpit Gupta via

suresh)

HDFS-4540. Namenode http server should use the web authentication

keytab for spnego principal. (Arpit Gupta via suresh)

HDFS-4544. Error in deleting blocks should not do check disk, for

all types of errors. (Arpit Agarwal via suresh)

HDFS-4565. Use DFSUtil.getSpnegoKeytabKey() to get the spnego keytab key

in secondary namenode and namenode http server. (Arpit Gupta via suresh)

HDFS-4571. WebHDFS should not set the service hostname on the server side.

(tucu)

HDFS-4013. TestHftpURLTimeouts throws NPE. (Chao Shi via suresh)

HDFS-4592. Default values for access time precision are out of sync between

hdfs-default.xml and the code. (atm)

HDFS-4522. LightWeightGSet expects incrementing a volatile to be atomic.

(Colin Patrick McCabe via atm)

HDFS-4484. libwebhdfs compilation broken with gcc 4.6.2. (Colin Patrick

McCabe via atm)

HDFS-4595. When short circuit read is fails, DFSClient does not fallback

to regular reads. (suresh)

HDFS-4583. TestNodeCount fails. (Ivan Mitic via suresh)

HDFS-4591. HA clients can fail to fail over while Standby NN is performing

long checkpoint. (atm)

HDFS-3277. fail over to loading a different FSImage if the first one we

try to load is corrupt. (Colin Patrick McCabe and Andrew Wang via atm)

HDFS-4596. Shutting down namenode during checkpointing can lead to md5sum

error. (Andrew Wang via atm)

HDFS-4614. FSNamesystem#getContentSummary should use getPermissionChecker

helper method. (atm)

HDFS-4620. Documentation for dfs.namenode.rpc-address specifies wrong

format. (Sandy Ryza via atm)

HDFS-4609. TestAuditLogs should release log handles between tests.

(Ivan Mitic via szetszwo)

HDFS-4598. Fix the default value of ConcatSourcesParam and the WebHDFS doc.

(szetszwo)

HDFS-4655. DNA\_FINALIZE is logged as being an unknown command by the DN

when received from the standby NN. (atm)

HDFS-4656. DN heartbeat loop can be briefly tight. (atm)

HDFS-4658. Standby NN will log that it has received a block report "after

becoming active" (atm)

HDFS-4646. createNNProxyWithClientProtocol ignores configured timeout

value (Jagane Sundar via cos)

HDFS-3981. Fix handling of FSN lock in getBlockLocations. (Xiaobo Peng

and todd via todd)

HDFS-4676. TestHDFSFileSystemContract should set MiniDFSCluster variable

to null to free up memory. (suresh)

HDFS-4669. TestBlockPoolManager fails using IBM java. (Tian Hong Wang via

suresh)

HDFS-4643. Fix flakiness in TestQuorumJournalManager. (todd)

HDFS-4639. startFileInternal() should not increment generation stamp.

(Plamen Jeliazkov via shv)

HDFS-4695. TestEditLog leaks open file handles between tests.

(Ivan Mitic via suresh)

HDFS-4737. JVM path embedded in fuse binaries. (Sean Mackrory via atm)

HDFS-4739. NN can miscalculate the number of extra edit log segments to

retain. (atm)

HDFS-4745. TestDataTransferKeepalive#testSlowReader has race condition that

causes sporadic failure. (Chris Nauroth via suresh)

HDFS-4768. File handle leak in datanode when a block pool is removed.

(Chris Nauroth via suresh)

HDFS-4748. MiniJournalCluster#restartJournalNode leaks resources, which

causes sporadic test failures. (Chris Nauroth via suresh)

HDFS-4733. Make HttpFS username pattern configurable. (tucu via atm)

HDFS-4778. Fixes some issues that the first patch on HDFS-2576 missed.

(ddas)

HDFS-4785. Concat operation does not remove concatenated files from

InodeMap. (suresh)

HDFS-4784. NPE in FSDirectory.resolvePath(). (Brandon Li via suresh)

HDFS-4810. several HDFS HA tests have timeouts that are too short. (Chris

Nauroth via atm)

HDFS-4799. Corrupt replica can be prematurely removed from

corruptReplicas map. (todd via kihwal)

HDFS-4751. TestLeaseRenewer#testThreadName flakes. (Andrew Wang via atm)

HDFS-4533. start-dfs.sh ignores additional parameters besides -upgrade.

(Fengdong Yu via suresh)

HDFS-4765. Permission check of symlink deletion incorrectly throws

UnresolvedLinkException. (Andrew Wang via atm)

HDFS-4300. TransferFsImage.downloadEditsToStorage should use a tmp file for

destination. (Andrew Wang via atm)

HDFS-4813. Add volatile to BlocksMap.blocks so that the replication thread

can see the updated value. (Jing Zhao via szetszwo)

HDFS-3180. Add socket timeouts to WebHdfsFileSystem. (Chris Nauroth via

szetszwo)

HDFS-4787. Create a new HdfsConfiguration before each TestDFSClientRetries

testcases. (Tian Hong Wang via atm)

HDFS-4830. Typo in config settings for AvailableSpaceVolumeChoosingPolicy

in hdfs-default.xml. (atm)

HDFS-4824. FileInputStreamCache.close leaves dangling reference to

FileInputStreamCache.cacheCleaner. (Colin Patrick McCabe via todd)

HDFS-4298. StorageRetentionManager spews warnings when used with QJM. (atm)

HDFS-4725. Fix HDFS file handle leaks in FSEditLog, NameNode,

OfflineEditsBinaryLoader and some tests. (Chris Nauroth via szetszwo)

HDFS-4825. webhdfs / httpfs tests broken because of min block size change.

(Andrew Wang via suresh)

HDFS-4780. Use the correct relogin method for services. (Robert Parker via

kihwal)

HDFS-4827. Slight update to the implementation of API for handling favored

nodes in DFSClient (ddas)

HDFS-4865. Remove sub resource warning from httpfs log at startup time.

(ywskycn via tucu)

HDFS-4240. For nodegroup-aware block placement, when a node is excluded,

the nodes in the same nodegroup should also be excluded. (Junping Du

via szetszwo)

HDFS-4261. Fix bugs in Balaner causing infinite loop and

TestBalancerWithNodeGroup timeing out. (Junping Du via szetszwo)

HDFS-4382. Fix typo MAX\_NOT\_CHANGED\_INTERATIONS. (Ted Yu via suresh)

HDFS-4840. ReplicationMonitor gets NPE during shutdown. (kihwal)

HDFS-4815. TestRBWBlockInvalidation: Double call countReplicas() to fetch

corruptReplicas and liveReplicas is not needed. (Tian Hong Wang via atm)

HADOOP-8957 HDFS tests for AbstractFileSystem#IsValidName should be overridden for

embedded file systems like ViewFs (Chris Nauroth via Sanjay Radia)

HDFS-4586. TestDataDirs.testGetDataDirsFromURIs fails with all directories

in dfs.datanode.data.dir are invalid. (Ivan Mitic via atm)

HDFS-3792. Fix two findbugs introduced by HDFS-3695 (todd)

HADOOP-9635 Fix potential Stack Overflow in DomainSocket.c (V. Karthik Kumar

via cmccabe)

HDFS-3163. TestHDFSCLI.testAll fails if the user name is not all lowercase.

(Brandon Li via atm)

HDFS-4845. FSNamesystem.deleteInternal should acquire write-lock before

changing the inode map. (Arpit Agarwal via szetszwo)

HDFS-4910. TestPermission failed in branch-2. (Chuan Liu via cnauroth)

HDFS-4906. HDFS Output streams should not accept writes after being

closed. (atm)

HDFS-4917. Start-dfs.sh cannot pass the parameters correctly.

(Fengdong Yu via suresh)

HDFS-4205. fsck fails with symlinks. (jlowe)

HDFS-4927. CreateEditsLog creates inodes with an invalid inode ID, which then

cannot be loaded by a namenode. (cnauroth)

HDFS-4944. WebHDFS cannot create a file path containing characters that must

be URI-encoded, such as space. (cnauroth)

HDFS-4888. Refactor and fix FSNamesystem.getTurnOffTip. (Ravi Prakash via

kihwal)

HDFS-4943. WebHdfsFileSystem does not work when original file path has

encoded chars. (Jerry He via szetszwo)

HDFS-4954. In nfs, OpenFileCtx.getFlushedOffset() should handle IOException.

(Brandon Li via szetszwo)

HDFS-4948. mvn site for hadoop-hdfs-nfs fails. (brandonli)

HDFS-4887. TestNNThroughputBenchmark exits abruptly. (kihwal)

HDFS-4980. Incorrect logging.properties file for hadoop-httpfs.

(Mark Grover via suresh)

HDFS-4999. Fix TestShortCircuitLocalRead on branch-2. (cmccabe via kihwal)

HDFS-4687. TestDelegationTokenForProxyUser#testWebHdfsDoAs is flaky with

JDK7. (Andrew Wang via atm)

HDFS-5003. TestNNThroughputBenchmark failed caused by existing directories.

(Xi Fang via cnauroth)

HDFS-5018. Misspelled DFSConfigKeys#DFS\_NAMENODE\_STALE\_DATANODE\_INTERVAL\_DEFAULT

in javadoc of DatanodeInfo#isStale(). (Ted Yu via jing9)

HDFS-4602. TestBookKeeperHACheckpoints fails. (umamahesh)

HDFS-5016. Deadlock in pipeline recovery causes Datanode to be marked dead.

(suresh)

HDFS-5228. The RemoteIterator returned by DistributedFileSystem.listFiles

may throw NullPointerException. (szetszwo and cnauroth via szetszwo)

BREAKDOWN OF HDFS-347 SUBTASKS AND RELATED JIRAS

HDFS-4353. Encapsulate connections to peers in Peer and PeerServer classes.

(Colin Patrick McCabe via todd)

HDFS-4354. Create DomainSocket and DomainPeer and associated unit tests.

(Colin Patrick McCabe via todd)

HDFS-4356. BlockReaderLocal should use passed file descriptors rather than paths.

(Colin Patrick McCabe via todd)

HDFS-4388. DomainSocket should throw AsynchronousCloseException when appropriate.

(Colin Patrick McCabe via todd)

HDFS-4390. Bypass UNIX domain socket unit tests when they cannot be run.

(Colin Patrick McCabe via todd)

HDFS-4400. DFSInputStream#getBlockReader: last retries should ignore the cache

(Colin Patrick McCabe via todd)

HDFS-4401. Fix bug in DomainSocket path validation

(Colin Patrick McCabe via todd)

HDFS-4402. Some small DomainSocket fixes: avoid findbugs warning, change

log level, etc. (Colin Patrick McCabe via todd)

HDFS-4418. increase default FileInputStreamCache size (todd)

HDFS-4416. Rename dfs.datanode.domain.socket.path to dfs.domain.socket.path

(Colin Patrick McCabe via todd)

HDFS-4417. Fix case where local reads get disabled incorrectly

(Colin Patrick McCabe and todd via todd)

HDFS-4433. Make TestPeerCache not flaky (Colin Patrick McCabe via todd)

HDFS-4438. TestDomainSocket fails when system umask is set to 0002. (Colin

Patrick McCabe via atm)

HDFS-4440. Avoid annoying log message when dfs.domain.socket.path is not

set. (Colin Patrick McCabe via atm)

HDFS-4473. Don't create domain socket unless we need it. (Colin Patrick McCabe via atm)

HDFS-4485. DN should chmod socket path a+w. (Colin Patrick McCabe via atm)

HDFS-4453. Make a simple doc to describe the usage and design of the

shortcircuit read feature. (Colin Patrick McCabe via atm)

HDFS-4496. DFSClient: don't create a domain socket unless we need it (Colin

Patrick McCabe via todd)

HDFS-347: style cleanups (Colin Patrick McCabe via atm)

HDFS-4538. Allow use of legacy blockreader (Colin Patrick McCabe via todd)

HDFS-4661. A few little code cleanups of some HDFS-347-related code. (Colin

Patrick McCabe via atm)

BREAKDOWN OF HADOOP-8562 and HDFS-3602 SUBTASKS AND RELATED JIRAS

HDFS-4145. Merge hdfs cmd line scripts from branch-1-win. (David Lao,

Bikas Saha, Lauren Yang, Chuan Liu, Thejas M Nair and Ivan Mitic via suresh)

HDFS-4163. HDFS distribution build fails on Windows. (Chris Nauroth via

suresh)

HDFS-4316. branch-trunk-win contains test code accidentally added during

work on fixing tests on Windows. (Chris Nauroth via suresh)

HDFS-4297. Fix issues related to datanode concurrent reading and writing on

Windows. (Arpit Agarwal, Chuan Liu via suresh)

HDFS-4573. Fix TestINodeFile on Windows. (Arpit Agarwal via suresh)

HDFS-4572. Fix TestJournal failures on Windows. (Arpit Agarwal via suresh)

HDFS-4287. HTTPFS tests fail on Windows. (Chris Nauroth via suresh)

HDFS-4593. TestSaveNamespace fails on Windows. (Arpit Agarwal via suresh)

HDFS-4582. TestHostsFiles fails on Windows. (Ivan Mitic via suresh)

HDFS-4603. TestMiniDFSCluster fails on Windows. (Ivan Mitic via suresh)

HDFS-4604. TestJournalNode fails on Windows. (Ivan Mitic via suresh)

HDFS-4607. In TestGetConf.testGetSpecificKey(), use a platform-specific

line separator; otherwise, it fails on Windows. (Ivan Mitic via szetszwo)

HDFS-4625. Make TestNNWithQJM#testNewNamenodeTakesOverWriter work on

Windows. (Ivan Mitic via suresh)

HDFS-4674. TestBPOfferService fails on Windows due to failure parsing

datanode data directory as URI. (Chris Nauroth via suresh)

HDFS-4615. Fix TestDFSShell failures on Windows. (Arpit Agarwal

via szetszwo)

HDFS-4584. Skip TestNNWithQJM.testNewNamenodeTakesOverWriter() on Windows.

(Arpit Agarwal via szetszwo)

HDFS-4732. Fix TestDFSUpgradeFromImage which fails on Windows due to

failure to unpack old image tarball that contains hard links.

(Chris Nauroth via szetszwo)

HDFS-4741. TestStorageRestore#testStorageRestoreFailure fails on Windows.

(Arpit Agarwal via suresh)

HDFS-4743. TestNNStorageRetentionManager fails on Windows.

(Chris Nauroth via suresh)

HDFS-4740. Fixes for a few test failures on Windows.

(Arpit Agarwal via suresh)

HDFS-4722. TestGetConf#testFederation times out on Windows.

(Ivan Mitic via suresh)

HDFS-4705. Address HDFS test failures on Windows because of invalid

dfs.namenode.name.dir. (Ivan Mitic via suresh)

HDFS-4734. HDFS Tests that use ShellCommandFencer are broken on Windows.

(Arpit Agarwal via suresh)

HDFS-4610. Use common utils FileUtil#setReadable/Writable/Executable and

FileUtil#canRead/Write/Execute. (Ivan Mitic via suresh)

HDFS-4677. Editlog should support synchronous writes. (ivanmi)

HDFS-4752. TestRBWBlockInvalidation fails on Windows due to file locking.

(Chris Nauroth via suresh)

HDFS-4783. TestDelegationTokensWithHA#testHAUtilClonesDelegationTokens fails

on Windows. (cnauroth)

HDFS-4818. Several HDFS tests that attempt to make directories unusable do

not work correctly on Windows. (cnauroth)

BREAKDOWN OF HDFS-2802 HDFS SNAPSHOT SUBTASKS AND RELATED JIRAS

HDFS-4076. Support snapshot of single files. (szetszwo)

HDFS-4082. Add editlog opcodes for snapshot create and delete operations.

(suresh via szetszwo)

HDFS-4086. Add editlog opcodes to allow and disallow snapshots on a

directory. (Brandon Li via suresh)

HDFS-4083. Protocol changes for snapshots. (suresh)

HDFS-4077. Add support for Snapshottable Directory. (szetszwo via suresh)

HDFS-4087. Protocol changes for listSnapshots functionality.

(Brandon Li via suresh)

HDFS-4079. Add SnapshotManager which maintains a list for all the

snapshottable directories and supports snapshot methods such as setting a

directory to snapshottable and creating a snapshot. (szetszwo)

HDFS-4078. Handle replication in snapshots. (szetszwo)

HDFS-4084. Provide CLI support to allow and disallow snapshot

on a directory. (Brondon Li via suresh)

HDFS-4091. Add snapshot quota to limit the number of snapshots allowed.

(szetszwo)

HDFS-4097. Provide CLI support for createSnapshot. (Brandon Li via suresh)

HDFS-4092. Update file deletion logic for snapshot so that the current inode

is removed from the circular linked list; and if some blocks at the end of

the block list no longer belong to any other inode, collect them and update

the block list. (szetszwo)

HDFS-4111. Support snapshot of subtrees. (szetszwo via suresh)

HDFS-4119. Complete the allowSnapshot code and add a test for it. (szetszwo)

HDFS-4133. Add testcases for testing basic snapshot functionalities.

(Jing Zhao via suresh)

HDFS-4116. Add auditlog for some snapshot operations. (Jing Zhao via suresh)

HDFS-4095. Add some snapshot related metrics. (Jing Zhao via suresh)

HDFS-4141. Support directory diff - the difference between the current state

and a previous snapshot of an INodeDirectory. (szetszwo)

HDFS-4146. Use getter and setter in INodeFileWithLink to access blocks and

initialize root directory as snapshottable. (szetszwo)

HDFS-4149. Implement the disallowSnapshot(..) in FSNamesystem and add

resetSnapshottable(..) to SnapshotManager. (szetszwo)

HDFS-4147. When there is a snapshot in a subtree, deletion of the subtree

should fail. (Jing Zhao via szetszwo)

HDFS-4150. Update the inode in the block map when a snapshotted file or a

snapshot file is deleted. (Jing Zhao via szetszwo)

HDFS-4159. Rename should fail when the destination directory is

snapshottable and has snapshots. (Jing Zhao via szetszwo)

HDFS-4170. Add snapshot information to INodesInPath. (szetszwo)

HDFS-4177. Add a snapshot parameter to INodeDirectory.getChildrenList() for

selecting particular snapshot children list views. (szetszwo)

HDFS-4148. Disallow write/modify operations on files and directories in a

snapshot. (Brandon Li via suresh)

HDFS-4188. Add Snapshot.ID\_COMPARATOR for comparing IDs and fix a bug in

ReadOnlyList.Util.binarySearch(..). (szetszwo)

HDFS-4187. Add tests for replication handling in snapshots. (Jing Zhao via

szetszwo)

HDFS-4196. Support renaming of snapshots. (Jing Zhao via szetszwo)

HDFS-4175. Additional snapshot tests for more complicated directory

structure and modifications. (Jing Zhao via suresh)

HDFS-4293. Fix TestSnapshot failure. (Jing Zhao via suresh)

HDFS-4317. Change INode and its subclasses to support HDFS-4103. (szetszwo)

HDFS-4103. Support O(1) snapshot creation. (szetszwo)

HDFS-4330. Support snapshots up to the snapshot limit. (szetszwo)

HDFS-4357. Fix a bug that if an inode is replaced, further INode operations

should apply to the new inode. (Jing Zhao via szetszwo)

HDFS-4230. Support listing of all the snapshottable directories. (Jing Zhao

via szetszwo)

HDFS-4244. Support snapshot deletion. (Jing Zhao via szetszwo)

HDFS-4245. Include snapshot related operations in TestOfflineEditsViewer.

(Jing Zhao via szetszwo)

HDFS-4395. In INodeDirectorySnapshottable's constructor, the passed-in dir

could be an INodeDirectoryWithSnapshot. (Jing Zhao via szetszwo)

HDFS-4397. Fix a bug in INodeDirectoryWithSnapshot.Diff.combinePostDiff(..)

that it may put the wrong node into the deleted list. (szetszwo)

HDFS-4407. Change INodeDirectoryWithSnapshot.Diff.combinePostDiff(..) to

merge-sort like and keep the postDiff parameter unmodified. (szetszwo)

HDFS-4098. Add FileWithSnapshot, INodeFileUnderConstructionWithSnapshot and

INodeFileUnderConstructionSnapshot for supporting append to snapshotted

files. (szetszwo)

HDFS-4126. Add reading/writing snapshot information to FSImage.

(Jing Zhao via suresh)

HDFS-4436. Change INode.recordModification(..) to return only the current

inode and remove the updateCircularList parameter from some methods in

INodeDirectoryWithSnapshot.Diff. (szetszwo)

HDFS-4429. When the latest snapshot exists, INodeFileUnderConstruction

should be replaced with INodeFileWithSnapshot but not INodeFile.

(Jing Zhao via szetszwo)

HDFS-4441. Move INodeDirectoryWithSnapshot.Diff and the related classes to a

package. (szetszwo)

HDFS-4432. Support INodeFileUnderConstructionWithSnapshot in FSImage

saving/loading. (Jing Zhao via suresh)

HDFS-4131. Add capability to namenode to get snapshot diff. (Jing Zhao via

suresh)

HDFS-4447. Refactor INodeDirectoryWithSnapshot for supporting general INode

diff lists. (szetszwo)

HDFS-4189. Renames the getMutableXxx methods to getXxx4Write and fix a bug

that some getExistingPathINodes calls should be getINodesInPath4Write.

(szetszwo)

HDFS-4361. When listing snapshottable directories, only return those

where the user has permission to take snapshots. (Jing Zhao via szetszwo)

HDFS-4464. Combine collectSubtreeBlocksAndClear with deleteDiffsForSnapshot

and rename it to destroySubtreeAndCollectBlocks. (szetszwo)

HDFS-4414. Add support for getting snapshot diff from DistributedFileSystem.

(Jing Zhao via suresh)

HDFS-4446. Support file snapshots with diff lists. (szetszwo)

HDFS-4480. Eliminate the file snapshot circular linked list. (szetszwo)

HDFS-4481. Change fsimage to support snapshot file diffs. (szetszwo)

HDFS-4500. Refactor snapshot INode methods. (szetszwo)

HDFS-4487. Fix snapshot diff report for HDFS-4446. (Jing Zhao via szetszwo)

HDFS-4431. Support snapshot in OfflineImageViewer. (Jing Zhao via szetszwo)

HDFS-4503. Update computeContentSummary(..), spaceConsumedInTree(..) and

diskspaceConsumed(..) in INode for snapshot. (szetszwo)

HDFS-4499. Fix file/directory/snapshot deletion for file diff. (Jing Zhao

via szetszwo)

HDFS-4524. Update SnapshotManager#snapshottables when loading fsimage.

(Jing Zhao via szetszwo)

HDFS-4520. Support listing snapshots under a snapshottable directory using

ls. (Jing Zhao via szetszwo)

HDFS-4514. Add CLI for supporting snapshot rename, diff report, and

snapshottable directory listing. (Jing Zhao via szetszwo)

HDFS-4523. Fix INodeFile replacement, TestQuota and javac errors from trunk

merge. (szetszwo)

HDFS-4507. Update quota verification for snapshots. (szetszwo)

HDFS-4545. With snapshots, FSDirectory.unprotectedSetReplication(..) always

changes file replication but it may or may not changes block replication.

(szetszwo)

HDFS-4557. Fix FSDirectory#delete when INode#cleanSubtree returns 0.

(Jing Zhao via szetszwo)

HDFS-4579. Annotate snapshot tests. (Arpit Agarwal via suresh)

HDFS-4574. Move Diff to the util package. (szetszwo)

HDFS-4563. Update namespace/diskspace usage after deleting snapshots.

(Jing Zhao via szetszwo)

HDFS-4144. Create test for all snapshot-related metrics.

(Jing Zhao via suresh)

HDFS-4556. Add snapshotdiff and LsSnapshottableDir tools to hdfs script.

(Arpit Agarwal via szetszwo)

HDFS-4534. Add INodeReference in order to support rename with snapshots.

(szetszwo)

HDFS-4616. Update the FilesDeleted metric while deleting file/dir in the

current tree. (Jing Zhao via szetszwo)

HDFS-4627. Fix FSImageFormat#Loader NPE and synchronization issues.

(Jing Zhao via suresh)

HDFS-4612. Not to use INode.getParent() when generating snapshot diff

report. (Jing Zhao via szetszwo)

HDFS-4636. Update quota usage when deleting files/dirs that were created

after taking the latest snapshot. (Jing Zhao via szetszwo)

HDFS-4648. For snapshot deletion, when merging the diff from to-delete

snapshot to the prior snapshot, make sure files/directories created after

the prior snapshot get deleted. (Jing Zhao via szetszwo)

HDFS-4637. INodeDirectory#replaceSelf4Quota may incorrectly convert a newly

created directory to an INodeDirectoryWithSnapshot. (Jing Zhao via szetszwo)

HDFS-4611. Update FSImage for INodeReference. (szetszwo)

HDFS-4647. Rename should call setLocalName after an inode is removed from

snapshots. (Arpit Agarwal via szetszwo)

HDFS-4684. Use INode id for image serialization when writing INodeReference.

(szetszwo)

HDFS-4675. Fix rename across snapshottable directories. (Jing Zhao via

szetszwo)

HDFS-4692. Use timestamp as default snapshot names. (szetszwo)

HDFS-4666. Define ".snapshot" as a reserved inode name so that users cannot

create a file/directory with ".snapshot" as the name. If ".snapshot" is

used in a previous version of HDFS, it must be renamed before upgrade;

otherwise, upgrade will fail. (szetszwo)

HDFS-4700. Fix the undo section of rename with snapshots. (Jing Zhao via

szetszwo)

HDFS-4529. Disallow concat when one of the src files is in some snapshot.

(szetszwo)

HDFS-4550. Refactor INodeDirectory.INodesInPath to a standalone class.

(szetszwo)

HDFS-4707. Add snapshot methods to FilterFileSystem and fix findbugs

warnings. (szetszwo)

HDFS-4706. Do not replace root inode for disallowSnapshot. (szetszwo)

HDFS-4717. Change the path parameter type of the snapshot methods in

HdfsAdmin from String to Path. (szetszwo)

HDFS-4708. Add snapshot user documentation. (szetszwo)

HDFS-4726. Fix test failures after merging the INodeId-INode mapping

from trunk. (Jing Zhao via szetszwo)

HDFS-4727. Update inodeMap after deleting files/directories/snapshots.

(Jing Zhao via szetszwo)

HDFS-4719. Remove AbstractINodeDiff.Factory and move its methods to

AbstractINodeDiffList. (Arpit Agarwal via szetszwo)

HDFS-4735. DisallowSnapshot throws IllegalStateException for nested

snapshottable directories. (Jing Zhao via szetszwo)

HDFS-4738. Changes AbstractINodeDiff to implement Comparable<Integer>, and

fix javadoc and other warnings. (szetszwo)

HDFS-4686. Update quota computation for rename and INodeReference.

(Jing Zhao via szetszwo)

HDFS-4729. Fix OfflineImageViewer and permission checking for snapshot

operations. (Jing Zhao via szetszwo)

HDFS-4749. Use INodeId to identify the corresponding directory node in

FSImage saving/loading. (Jing Zhao via szetszwo)

HDFS-4742. Fix appending to a renamed file with snapshot. (Jing Zhao via

szetszwo)

HDFS-4755. Fix AccessControlException message and moves "implements

LinkedElement" from INode to INodeWithAdditionalFields. (szetszwo)

HDFS-4650. Fix a bug in FSDirectory and add more unit tests for rename with

existence of snapshottable directories and snapshots. (Jing Zhao via

szetszwo)

HDFS-4650. When passing two non-existing snapshot names to snapshotDiff, it

returns success if the names are the same. (Jing Zhao via szetszwo)

HDFS-4767. If a directory is snapshottable, do not replace it when clearing

quota. (Jing Zhao via szetszwo)

HDFS-4578. Restrict snapshot IDs to 24-bit wide. (Arpit Agarwal via

szetszwo)

HDFS-4773. Fix bugs in quota usage computation and OfflineImageViewer.

(Jing Zhao via szetszwo)

HDFS-4760. Update inodeMap after node replacement. (Jing Zhao via szetszwo)

HDFS-4758. Disallow nested snapshottable directories and unwrap

RemoteException. (szetszwo)

HDFS-4781. Fix a NullPointerException when listing .snapshot under

a non-existing directory. (szetszwo)

HDFS-4791. Update and fix deletion of reference inode. (Jing Zhao via

szetszwo)

HDFS-4798. Update computeContentSummary() for the reference nodes in

snapshots. (szetszwo)

HDFS-4800. Fix INodeDirectoryWithSnapshot#cleanDeletedINode. (Jing Zhao via

szetszwo)

HDFS-4801. lsSnapshottableDir throws IllegalArgumentException when root is

snapshottable. (Jing Zhao via szetszwo)

HDFS-4802. Disallowing snapshot on / twice should throw SnapshotException

but not IllegalStateException. (Jing Zhao via szetszwo)

HDFS-4806. In INodeDirectoryWithSnapshot, use isInLatestSnapshot() to

determine if an added/removed child should be recorded in the snapshot diff.

(Jing Zhao via szetszwo)

HDFS-4809. When a QuotaExceededException is thrown during rename, the quota

usage should be subtracted back. (Jing Zhao via szetszwo)

HDFS-4842. Identify the correct prior snapshot when deleting a

snapshot under a renamed subtree. (jing9)

HDFS-4846. Clean up snapshot CLI commands output stacktrace for invalid

arguments. (Jing Zhao via brandonli)

HDFS-4857. Snapshot.Root and AbstractINodeDiff#snapshotINode should not be

put into INodeMap when loading FSImage. (jing9)

HDFS-4863. The root directory should be added to the snapshottable

directory list while loading fsimage. (jing9)

HDFS-4848. copyFromLocal and renaming a file to ".snapshot" should output

that ".snapshot" is a reserved name. (Jing Zhao via brandonli)

HDFS-4826. TestNestedSnapshots times out due to repeated slow edit log

flushes when running on virtualized disk. (Chris Nauroth via szetszwo)

HDFS-4876. Fix the javadoc of FileWithSnapshot and move FileDiffList to

FileWithSnapshot. (szetszwo)

HDFS-4850. Fix OfflineImageViewer to work on fsimages with empty files or

snapshots. (jing9)

HDFS-4877. Snapshot: fix the scenario where a directory is renamed under

its prior descendant. (jing9)

HDFS-4873. callGetBlockLocations returns incorrect number of blocks for

snapshotted files. (jing9)

HDFS-4819. Update Snapshot doc to clarify that nested snapshots are not

allowed. (szetszwo)

HDFS-4902. DFSClient.getSnapshotDiffReport should use string path rather

than o.a.h.fs.Path. (Binglin Chang via jing9)

HDFS-4875. Add a test for testing snapshot file length.

(Arpit Agarwal via jing9)

HDFS-4841. FsShell commands using secure webhfds fail ClientFinalizer

shutdown hook. (rkanter via tucu)

HDFS-4951. FsShell commands using secure httpfs throw exceptions due

to missing TokenRenewer. (rknater via tucu)

HDFS-4969. WebhdfsFileSystem expects non-standard WEBHDFS Json element.

(rkanter via tucu)

HDFS-4797. BlockScanInfo does not override equals(..) and hashCode()

consistently. (szetszwo)

HDFS-4978. Make disallowSnapshot idempotent. (jing9)

HDFS-5005. Move SnapshotException and SnapshotAccessControlException

to o.a.h.hdfs.protocol. (jing9)

HDFS-4982. JournalNode should relogin from keytab before fetching logs

from other JNs (todd)

Release 2.0.6-alpha - 08/22/2013

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

Release 2.0.5-alpha - 06/06/2013

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.0.4-alpha - 2013-04-25

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

Release 2.0.3-alpha - 2013-02-06

INCOMPATIBLE CHANGES

HDFS-4122. Cleanup HDFS logs and reduce the size of logged messages.

(suresh)

HDFS-4362. GetDelegationTokenResponseProto does not handle null token.

(suresh)

HDFS-4367. GetDataEncryptionKeyResponseProto does not handle null

response. (suresh)

HDFS-4364. GetLinkTargetResponseProto does not handle null path. (suresh)

HDFS-4369. GetBlockKeysResponseProto does not handle null response.

(suresh)

HDFS-4451. hdfs balancer command returns exit code 1 on success instead

of 0. (Joshua Blatt via suresh)

HDFS-4350. Make enabling of stale marking on read and write paths

independent. (Andrew Wang via suresh)

NEW FEATURES

HDFS-2656. Add libwebhdfs, a pure C client based on WebHDFS.

(Jaimin D Jetly and Jing Zhao via szetszwo)

HDFS-3912. Detect and avoid stale datanodes for writes.

(Jing Zhao via suresh)

HDFS-4059. Add number of stale DataNodes to metrics. (Jing Zhao via suresh)

HDFS-4155. libhdfs implementation of hsync API (Liang Xie via todd)

HDFS-4213. Add an API to hsync for updating the last block length at the

namenode. (Jing Zhao via szetszwo)

HDFS-3077. Implement QuorumJournalManager, a distributed mechanism for

reliably storing HDFS edit logs. See dedicated section below for breakdown

of subtasks.

IMPROVEMENTS

HDFS-3925. Prettify PipelineAck#toString() for printing to a log

(Andrew Wang via todd)

HDFS-3939. NN RPC address cleanup. (eli)

HDFS-3373. Change DFSClient input stream socket cache to global static and

add a thread to cleanup expired cache entries. (John George via szetszwo)

HDFS-3896. Add descriptions for dfs.namenode.rpc-address and

dfs.namenode.servicerpc-address to hdfs-default.xml. (Jeff Lord via atm)

HDFS-3996. Add debug log removed in HDFS-3873 back. (eli)

HDFS-3916. libwebhdfs (C client) code cleanups.

(Colin Patrick McCabe via eli)

HDFS-3813. Log error message if security and WebHDFS are enabled but

principal/keytab are not configured. (Stephen Chu via atm)

HDFS-3483. Better error message when hdfs fsck is run against a ViewFS

config. (Stephen Fritz via atm)

HDFS-3682. MiniDFSCluster#init should provide more info when it fails.

(todd via eli)

HDFS-4008. TestBalancerWithEncryptedTransfer needs a timeout. (eli)

HDFS-4007. Rehabilitate bit-rotted unit tests under

hadoop-hdfs-project/hadoop-hdfs/src/test/unit/

(Colin Patrick McCabe via todd)

HDFS-4041. Hadoop HDFS Maven protoc calls must not depend on external

sh script. (Chris Nauroth via suresh)

HADOOP-8911. CRLF characters in source and text files.

(Raja Aluri via suresh)

HDFS-4037. Rename the getReplication() method in BlockCollection to

getBlockReplication(). (szetszwo)

HDFS-4036. Remove "throws UnresolvedLinkException" from

FSDirectory.unprotectedAddFile(..). (Jing Zhao via szetszwo)

HDFS-2946. HA: Put a cap on the number of completed edits files retained

by the NN. (atm)

HDFS-4029. GenerationStamp should use an AtomicLong. (eli)

HDFS-4068. DatanodeID and DatanodeInfo member should be private. (eli)

HDFS-4073. Two minor improvements to FSDirectory. (Jing Zhao via szetszwo)

HDFS-4074. Remove the unused default constructor from INode. (Brandon Li

via szetszwo)

HDFS-4088. Remove "throws QuotaExceededException" from an

INodeDirectoryWithQuota constructor. (szetszwo)

HDFS-4099. Clean up replication code and add more javadoc. (szetszwo)

HDFS-4107. Add utility methods for casting INode to INodeFile and

INodeFileUnderConstruction. (szetszwo)

HDFS-4112. A few improvements on INodeDirectory include adding a utility

method for casting; avoiding creation of new empty lists; cleaning up

some code and rewriting some javadoc. (szetszwo)

HDFS-4121. Add namespace declarations in hdfs .proto files for languages

other than java. (Binglin Chang via suresh)

HDFS-3573. Supply NamespaceInfo when instantiating JournalManagers.

(todd and ivank via umamahesh)

HDFS-3695. Genericize format() to non-file JournalManagers.

(todd via umamahesh)

HDFS-3789. JournalManager#format() should be able to throw IOException.

(Ivan Kelly via umamahesh)

HDFS-3809. Make BKJM use protobufs for all serialization with ZK.

(Ivan Kelly via umamhesh)

HDFS-3916. libwebhdfs testing code cleanup. (Jing Zhao via suresh)

HDFS-4143. Change blocks to private in INodeFile and renames isLink() to

isSymlink() in INode. (szetszwo)

HDFS-4046. Rename ChecksumTypeProto enum NULL since it is illegal in

C/C++. (Binglin Chang via suresh)

HDFS-4048. Use ERROR instead of INFO for volume failure logs.

(Stephen Chu via eli)

HDFS-1322. Document umask in DistributedFileSystem#mkdirs javadocs.

(Colin Patrick McCabe via eli)

HDFS-4038. Override toString() for BookKeeperEditLogInputStream.

(Vinay via umamahesh)

HDFS-4214. OfflineEditsViewer should print out the offset at which it

encountered an error. (Colin Patrick McCabe via atm)

HDFS-4199. Provide test for HdfsVolumeId. (Ivan A. Veselovsky via atm)

HDFS-3049. During the normal NN startup process, fall back on a different

edit log if we see one that is corrupt (Colin Patrick McCabe via todd)

HDFS-3571. Allow EditLogFileInputStream to read from a remote URL (todd)

HDFS-4110. Refine a log printed in JNStorage. (Liang Xie via suresh)

HDFS-4153. Add START\_MSG/SHUTDOWN\_MSG for JournalNode. (liang xie via atm)

HDFS-3935. Add JournalNode to the start/stop scripts (Andy Isaacson via todd)

HDFS-4268. Remove redundant enum NNHAStatusHeartbeat.State. (shv)

HDFS-3680. Allow customized audit logging in HDFS FSNamesystem. (Marcelo

Vanzin via atm)

HDFS-4130. BKJM: The reading for editlog at NN starting using bkjm is not efficient.

(Han Xiao via umamahesh)

HDFS-4326. bump up Tomcat version for HttpFS to 6.0.36. (tucu via acmurthy)

HDFS-4270. Introduce soft and hard limits for max replication so that

replications of the highest priority are allowed to choose a source datanode

that has reached its soft limit but not the hard limit. (Derek Dagit via

szetszwo)

HADOOP-9173. Add security token protobuf definition to common and

use it in hdfs. (suresh)

HDFS-4030. BlockManager excessBlocksCount and

postponedMisreplicatedBlocksCount should be AtomicLongs. (eli)

HDFS-4031. Update findbugsExcludeFile.xml to include findbugs 2

exclusions. (eli)

HDFS-4033. Miscellaneous findbugs 2 fixes. (eli)

HDFS-4034. Remove redundant null checks. (eli)

HDFS-4035. LightWeightGSet and LightWeightHashSet increment a

volatile without synchronization. (eli)

HDFS-4032. Specify the charset explicitly rather than rely on the

default. (eli)

HDFS-4363. Combine PBHelper and HdfsProtoUtil and remove redundant

methods. (suresh)

HDFS-4377. Some trivial DN comment cleanup. (eli)

HDFS-4381. Document fsimage format details in FSImageFormat class javadoc.

(Jing Zhao via suresh)

HDFS-4375. Use token request messages defined in hadoop common.

(suresh)

HDFS-4392. Use NetUtils#getFreeSocketPort in MiniDFSCluster.

(Andrew Purtell via suresh)

HDFS-4393. Make empty request and responses in protocol translators can be

static final members. (Brandon Li via suresh)

HDFS-4403. DFSClient can infer checksum type when not provided by reading

first byte (todd)

HDFS-4259. Improve pipeline DN replacement failure message (harsh)

HDFS-3598. WebHDFS support for file concat. (Plamen Jeliazkov via shv)

HDFS-4456. Add concat to HttpFS and WebHDFS REST API docs. (plamenj2003 via tucu)

HDFS-3131. Improve TestStorageRestore. (Brandon Li via atm)

OPTIMIZATIONS

HDFS-3429. DataNode reads checksums even if client does not need them (todd)

BUG FIXES

HDFS-3919. MiniDFSCluster:waitClusterUp can hang forever.

(Andy Isaacson via eli)

HDFS-3924. Multi-byte id in HdfsVolumeId. (Andrew Wang via atm)

HDFS-3936. MiniDFSCluster shutdown races with BlocksMap usage. (eli)

HDFS-3951. datanode web ui does not work over HTTPS when datanode is started in secure mode. (tucu)

HDFS-3949. NameNodeRpcServer#join should join on both client and

server RPC servers. (eli)

HDFS-3932. NameNode Web UI broken if the rpc-address is set to the wildcard.

(Colin Patrick McCabe via eli)

HDFS-3931. TestDatanodeBlockScanner#testBlockCorruptionPolicy2 is broken.

(Andy Isaacson via eli)

HDFS-3964. Make NN log of fs.defaultFS debug rather than info. (eli)

HDFS-3992. Method org.apache.hadoop.hdfs.TestHftpFileSystem.tearDown()

sometimes throws NPEs. (Ivan A. Veselovsky via atm)

HDFS-3753. Tests don't run with native libraries.

(Colin Patrick McCabe via eli)

HDFS-4000. TestParallelLocalRead fails with "input ByteBuffers

must be direct buffers". (Colin Patrick McCabe via eli)

HDFS-3999. HttpFS OPEN operation expects len parameter, it should be length. (tucu)

HDFS-4006. TestCheckpoint#testSecondaryHasVeryOutOfDateImage

occasionally fails due to unexpected exit. (todd via eli)

HDFS-4018. testMiniDFSClusterWithMultipleNN is missing some

cluster cleanup. (eli)

HDFS-4020. TestRBWBlockInvalidation may time out. (eli)

HDFS-4021. Misleading error message when resources are low on the NameNode.

(Christopher Conner via atm)

HDFS-4044. Duplicate ChecksumType definition in HDFS .proto files.

(Binglin Chang via suresh)

HDFS-4049. Fix hflush performance regression due to nagling delays

(todd)

HDFS-3678. Edit log files are never being purged from 2NN. (atm)

HDFS-4058. DirectoryScanner may fail with IOOB if the directory

scanning threads return out of volume order. (eli)

HDFS-3985. Add timeouts to TestMulitipleNNDataBlockScanner. (todd via eli)

HDFS-4061. TestBalancer and TestUnderReplicatedBlocks need timeouts. (eli)

HDFS-3997. OfflineImageViewer incorrectly passes value of imageVersion when

visiting IS\_COMPRESSED element. (Mithun Radhakrishnan via atm)

HDFS-4055. TestAuditLogs is flaky. (Binglin Chang via eli)

HDFS-4072. On file deletion remove corresponding blocks pending

replications. (Jing Zhao via suresh)

HDFS-4022. Replication not happening for appended block.

(Vinay via umamahesh)

HDFS-3948. Do not use hflush in TestWebHDFS.testNamenodeRestart() since the

out stream returned by WebHdfsFileSystem does not support it. (Jing Zhao

via szetszwo)

HDFS-3616. Fix a ConcurrentModificationException bug that BP actor threads

may not be shutdown properly in DataNode. (Jing Zhao via szetszwo)

HDFS-4127. Log message is not correct in case of short of replica.

(Junping Du via suresh)

HADOOP-8994. TestDFSShell creates file named "noFileHere", making further

tests hard to understand (Andy Isaacson via daryn)

HDFS-3804. TestHftpFileSystem fails intermittently with JDK7

(Trevor Robinson via daryn)

HDFS-4132. When libwebhdfs is not enabled, nativeMiniDfsClient frees

uninitialized memory (Colin Patrick McCabe via todd)

HDFS-1331. dfs -test should work like /bin/test (Andy Isaacson via daryn)

HDFS-3979. For hsync, datanode should wait for the local sync to complete

before sending ack. (Lars Hofhansl via szetszwo)

HDFS-3810. Implement format() for BKJM (Ivan Kelly via umamahesh)

HDFS-3625. Fix TestBackupNode by properly initializing edit log during

startup. (Junping Du via todd)

HDFS-4138. BackupNode startup fails due to uninitialized edit log.

(Kihwal Lee via shv)

HDFS-4162. Some malformed and unquoted HTML strings are returned from

datanode web ui. (Darek Dagit via suresh)

HDFS-4164. fuse\_dfs: add -lrt to the compiler command line on Linux.

(Colin Patrick McCabe via eli)

HDFS-3921. NN will prematurely consider blocks missing when entering active

state while still in safe mode. (atm)

HDFS-4106. BPServiceActor#lastHeartbeat, lastBlockReport and

lastDeletedReport should be volatile. (Jing Zhao via suresh)

HDFS-4139. fuse-dfs RO mode still allows file truncation.

(Colin Patrick McCabe via eli)

HDFS-4104. dfs -test -d prints inappropriate error on nonexistent directory

(Andy Isaacson via daryn)

HDFS-3623. BKJM: zkLatchWaitTimeout hard coded to 6000. Make use of ZKSessionTimeout instead.

(umamahesh)

HDFS-4100. Fix all findbug security warings. (Liang Xie via eli)

HDFS-3507. DFS#isInSafeMode needs to execute only on Active NameNode.

(Vinay via atm)

HDFS-4105. The SPNEGO user for secondary namenode should use the web

keytab. (Arpit Gupta via jitendra)

HDFS-4156. Seeking to a negative position should throw an IOE.

(Eli Reisman via eli)

HDFS-4171. WebHDFS and HttpFs should accept only valid Unix user

names. (tucu)

HDFS-4178. Shell scripts should not close stderr (Andy Isaacson via daryn)

HDFS-4179. BackupNode: allow reads, fix checkpointing, safeMode. (shv)

HDFS-4216. Do not ignore QuotaExceededException when adding symlinks.

(szetszwo)

HDFS-4242. Map.Entry is incorrectly used in LeaseManager since the behavior

of it is undefined after the iteration or modifications of the map.

(szetszwo)

HDFS-4231. BackupNode: Introduce BackupState. (shv)

HDFS-4238. Standby namenode should not do purging of shared

storage edits. (todd)

HDFS-4282. TestEditLog.testFuzzSequences FAILED in all pre-commit test

(todd)

HDFS-4236. Remove artificial limit on username length introduced in

HDFS-4171. (tucu via suresh)

HDFS-4279. NameNode does not initialize generic conf keys when started

with -recover. (Colin Patrick McCabe via atm)

HDFS-4291. edit log unit tests leave stray test\_edit\_log\_file around

(Colin Patrick McCabe via todd)

HDFS-4292. Sanity check not correct in RemoteBlockReader2.newBlockReader

(Binglin Chang via todd)

HDFS-4295. Using port 1023 should be valid when starting Secure DataNode

(Stephen Chu via todd)

HDFS-4294. Backwards compatibility is not maintained for TestVolumeId.

(Ivan A. Veselovsky and Robert Parker via atm)

HDFS-2264. NamenodeProtocol has the wrong value for clientPrincipal in

KerberosInfo annotation. (atm)

HDFS-4307. SocketCache should use monotonic time. (Colin Patrick McCabe

via atm)

HDFS-4315. DNs with multiple BPs can have BPOfferServices fail to start

due to unsynchronized map access. (atm)

HDFS-4140. fuse-dfs handles open(O\_TRUNC) poorly. (Colin Patrick McCabe

via atm)

HDFS-4308. addBlock() should persist file blocks once.

(Plamen Jeliazkov via shv)

HDFS-4347. Avoid infinite waiting checkpoint to complete in TestBackupNode.

(Plamen Jeliazkov via shv)

HDFS-4349. Add test for reading files from BackupNode. (shv)

HDFS-4302. Fix fatal exception when starting NameNode with DEBUG logs

(Eugene Koontz via todd)

HDFS-3970. Fix bug causing rollback of HDFS upgrade to result in bad

VERSION file. (Vinay and Andrew Wang via atm)

HDFS-4306. PBHelper.convertLocatedBlock miss convert BlockToken. (Binglin

Chang via atm)

HDFS-4384. test\_libhdfs\_threaded gets SEGV if JNIEnv cannot be

initialized. (Colin Patrick McCabe via eli)

HDFS-4328. TestLargeBlock#testLargeBlockSize is timing out. (Chris Nauroth

via atm)

HDFS-4274. BlockPoolSliceScanner does not close verification log during

shutdown. (Chris Nauroth via suresh)

HDFS-1245. Pluggable block id generation. (shv)

HDFS-4415. HostnameFilter should handle hostname resolution failures and

continue processing. (Robert Kanter via atm)

HDFS-4359. Slow RPC responses from NN can prevent metrics collection on

DNs. (liang xie via atm)

HDFS-4444. Add space between total transaction time and number of

transactions in FSEditLog#printStatistics. (Stephen Chu via suresh)

HDFS-4428. FsDatasetImpl should disclose what the error is when a rename

fails. (Colin Patrick McCabe via atm)

HDFS-4452. getAdditionalBlock() can create multiple blocks if the client

times out and retries. (shv)

HDFS-4445. All BKJM ledgers are not checked while tailing, So failover will fail.

(Vinay via umamahesh)

HDFS-4462. 2NN will fail to checkpoint after an HDFS upgrade from a

pre-federation version of HDFS. (atm)

HDFS-4404. Create file failure when the machine of first attempted NameNode

is down. (Todd Lipcon via atm)

HDFS-4344. dfshealth.jsp throws NumberFormatException when

dfs.hosts/dfs.hosts.exclude includes port number. (Andy Isaacson via atm)

HDFS-4468. Use the new StringUtils methods added by HADOOP-9252 and fix

TestHDFSCLI and TestQuota. (szetszwo)

HDFS-4458. In DFSUtil.getNameServiceUris(..), convert default fs URI using

NetUtils.createSocketAddr(..) for being consistent with other addresses.

(Binglin Chang via szetszwo)

BREAKDOWN OF HDFS-3077 SUBTASKS

HDFS-3077. Quorum-based protocol for reading and writing edit logs.

(todd, Brandon Li, and Hari Mankude via todd)

HDFS-3694. Fix getEditLogManifest to fetch httpPort if necessary (todd)

HDFS-3692. Support purgeEditLogs() call to remotely purge logs on JNs

(todd)

HDFS-3693. JNStorage should read its storage info even before a writer

becomes active (todd)

HDFS-3725. Fix QJM startup when individual JNs have gaps (todd)

HDFS-3741. Exhaustive failure injection test for skipped RPCs (todd)

HDFS-3773. TestNNWithQJM fails after HDFS-3741. (atm)

HDFS-3793. Implement genericized format() in QJM (todd)

HDFS-3795. QJM: validate journal dir at startup (todd)

HDFS-3798. Avoid throwing NPE when finalizeSegment() is called on invalid

segment (todd)

HDFS-3799. QJM: handle empty log segments during recovery (todd)

HDFS-3797. QJM: add segment txid as a parameter to journal() RPC (todd)

HDFS-3800. improvements to QJM fault testing (todd)

HDFS-3823. QJM: TestQJMWithFaults fails occasionally because of missed

setting of HTTP port. (todd and atm)

HDFS-3826. QJM: Some trivial logging / exception text improvements. (todd

and atm)

HDFS-3839. QJM: hadoop-daemon.sh should be updated to accept "journalnode"

(eli)

HDFS-3845. Fixes for edge cases in QJM recovery protocol (todd)

HDFS-3877. QJM: Provide defaults for dfs.journalnode.\*address (eli)

HDFS-3863. Track last "committed" txid in QJM (todd)

HDFS-3869. Expose non-file journal manager details in web UI (todd)

HDFS-3884. Journal format() should reset cached values (todd)

HDFS-3870. Add metrics to JournalNode (todd)

HDFS-3891. Make selectInputStreams throw IOE instead of RTE (todd)

HDFS-3726. If a logger misses an RPC, don't retry that logger until next

segment (todd)

HDFS-3893. QJM: Make QJM work with security enabled. (atm)

HDFS-3897. QJM: TestBlockToken fails after HDFS-3893. (atm)

HDFS-3898. QJM: enable TCP\_NODELAY for IPC (todd)

HDFS-3885. QJM: optimize log sync when JN is lagging behind (todd)

HDFS-3900. QJM: avoid validating log segments on log rolls (todd)

HDFS-3901. QJM: send 'heartbeat' messages to JNs even when they are

out-of-sync (todd)

HDFS-3899. QJM: Add client-side metrics (todd)

HDFS-3914. QJM: acceptRecovery should abort current segment (todd)

HDFS-3915. QJM: Failover fails with auth error in secure cluster (todd)

HDFS-3906. QJM: quorum timeout on failover with large log segment (todd)

HDFS-3840. JournalNodes log JournalNotFormattedException backtrace error

before being formatted (todd)

HDFS-3894. QJM: testRecoverAfterDoubleFailures can be flaky due to IPC

client caching (todd)

HDFS-3926. QJM: Add user documentation for QJM. (atm)

HDFS-3943. QJM: remove currently-unused md5sum field (todd)

HDFS-3950. QJM: misc TODO cleanup, improved log messages, etc. (todd)

HDFS-3955. QJM: Make acceptRecovery() atomic. (todd)

HDFS-3956. QJM: purge temporary files when no longer within retention

period (todd)

HDFS-4004. TestJournalNode#testJournal fails because of test case execution

order (Chao Shi via todd)

HDFS-4017. Unclosed FileInputStream in GetJournalEditServlet

(Chao Shi via todd)

HDFS-4351. In BlockPlacementPolicyDefault.chooseTarget(..), numOfReplicas

needs to be updated when avoiding stale nodes. (Andrew Wang via szetszwo)

HDFS-2908. Add apache license header for StorageReport.java. (Brandon Li

via tgraves)

HDFS-4399. Fix RAT warnings by excluding images sub-dir in docs. (Thomas

Graves via acmurthy)

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INCOMPATIBLE CHANGES

HDFS-3446. HostsFileReader silently ignores bad includes/excludes

(Matthew Jacobs via todd)

HDFS-3755. Creating an already-open-for-write file with overwrite=true fails

(todd)

NEW FEATURES

HDFS-744. Support hsync in HDFS. (Lars Hofhansl via szetszwo)

HDFS-3042. Automatic failover support for NameNode HA (todd)

(see dedicated section below for breakdown of subtasks)

HDFS-3518. Add a utility method HdfsUtils.isHealthy(uri) for checking if

the given HDFS is healthy. (szetszwo)

HDFS-3113. httpfs does not support delegation tokens. (tucu)

HDFS-3513. HttpFS should cache filesystems. (tucu)

HDFS-3637. Add support for encrypting the DataTransferProtocol. (atm)

HDFS-3150. Add option for clients to contact DNs via hostname. (eli)

HDFS-2793. Add an admin command to trigger an edit log roll. (todd)

HDFS-3703. Datanodes are marked stale if heartbeat is not received in

configured timeout and are selected as the last location to read from.

(Jing Zhao via suresh)

IMPROVEMENTS

HDFS-3040. TestMulitipleNNDataBlockScanner is misspelled. (Madhukara Phatak

via atm)

HDFS-3390. DFSAdmin should print full stack traces of errors when DEBUG

logging is enabled. (atm)

HDFS-3341. Change minimum RPC versions to respective SNAPSHOTs instead of

final releases. (todd)

HDFS-3369. Rename {get|set|add}INode(..) methods in BlockManager and

BlocksMap to {get|set|add}BlockCollection(..). (John George via szetszwo)

HDFS-3134. harden edit log loader against malformed or malicious input.

(Colin Patrick McCabe via eli)

HDFS-3230. Cleanup DatanodeID creation in the tests. (eli)

HDFS-3401. Cleanup DatanodeDescriptor creation in the tests. (eli)

HDFS-3400. DNs should be able start with jsvc even if security is disabled.

(atm via eli)

HDFS-3404. Make putImage in GetImageServlet infer remote address to fetch

from request. (atm)

HDFS-3335. check for edit log corruption at the end of the log

(Colin Patrick McCabe via todd)

HDFS-3417. Rename BalancerDatanode#getName to getDisplayName to be

consistent with Datanode. (eli)

HDFS-3416. Cleanup DatanodeID and DatanodeRegistration

constructors used by testing. (eli)

HDFS-3419. Cleanup LocatedBlock. (eli)

HDFS-3440. More effectively limit stream memory consumption when reading

corrupt edit logs (Colin Patrick McCabe via todd)

HDFS-3438. BootstrapStandby should not require a rollEdits on active node

(todd)

HDFS-2885. Remove "federation" from the nameservice config options.

(Tsz Wo (Nicholas) Sze via eli)

HDFS-3394. Do not use generic in INodeFile.getLastBlock(): the run-time

ClassCastException check is useless since generic type information is only

available in compile-time. (szetszwo)

HDFS-3454. Balancer unconditionally logs InterruptedException at

INFO level on shutdown if security is enabled. (eli)

HDFS-1013. Miscellaneous improvements to HTML markup for web UIs

(Eugene Koontz via todd)

HDFS-3052. Change INodeFile and INodeFileUnderConstruction to package

private. (szetszwo)

HDFS-3520. Add transfer rate logging to TransferFsImage. (eli)

HDFS-3504. Support configurable retry policy in DFSClient for RPC

connections and RPC calls, and add MultipleLinearRandomRetry, a new retry

policy. (szetszwo)

HDFS-3372. offlineEditsViewer should be able to read a binary

edits file with recovery mode. (Colin Patrick McCabe via eli)

HDFS-3516. Check content-type in WebHdfsFileSystem. (szetszwo)

HDFS-3535. Audit logging should log denied accesses. (Andy Isaacson via eli)

HDFS-3481. Refactor HttpFS handling of JAX-RS query string parameters (tucu)

HDFS-3572. Cleanup code which inits SPNEGO in HttpServer (todd)

HDFS-3475. Make the replication monitor multipliers configurable.

(harsh via eli)

HDFS-3343. Improve metrics for DN read latency (Andrew Wang via todd)

HDFS-3170. Add more useful metrics for write latency (Matthew Jacobs via

todd)

HDFS-3604. Add dfs.webhdfs.enabled to hdfs-default.xml. (eli)

HDFS-2988. Improve error message when storage directory lock fails

(Miomir Boljanovic via harsh)

HDFS-2391. Newly set BalancerBandwidth value is not displayed anywhere.

(harsh)

HDFS-3067. NPE in DFSInputStream.readBuffer if read is repeated on

corrupted block. (Henry Robinson via atm)

HDFS-3555. idle client socket triggers DN ERROR log

(should be INFO or DEBUG). (Andy Isaacson via harsh)

HDFS-3568. fuse\_dfs: add support for security. (Colin McCabe via atm)

HDFS-3629. Fix the typo in the error message about inconsistent

storage layout version. (Brandon Li via harsh)

HDFS-3613. GSet prints some INFO level values, which aren't

really very useful to all (Andrew Wang via harsh)

HDFS-3611. NameNode prints unnecessary WARNs about edit log normally skipping

a few bytes. (Colin Patrick McCabe via harsh)

HDFS-3582. Hook daemon process exit for testing. (eli)

HDFS-3641. Move server Util time methods to common and use now

instead of System#currentTimeMillis. (eli)

HDFS-3633. libhdfs: hdfsDelete should pass JNI\_FALSE or JNI\_TRUE.

(Colin Patrick McCabe via eli)

HDFS-799. libhdfs must call DetachCurrentThread when a thread is destroyed.

(Colin Patrick McCabe via eli)

HDFS-3306. fuse\_dfs: don't lock release operations.

(Colin Patrick McCabe via eli)

HDFS-3612. Single namenode image directory config warning can

be improved. (Andy Isaacson via harsh)

HDFS-3606. libhdfs: create self-contained unit test.

(Colin Patrick McCabe via eli)

HDFS-3539. libhdfs code cleanups. (Colin Patrick McCabe via eli)

HDFS-3610. fuse\_dfs: Provide a way to use the default (configured) NN URI.

(Colin Patrick McCabe via eli)

HDFS-3663. MiniDFSCluster should capture the code path that led to

the first ExitException. (eli)

HDFS-3659. Add missing @Override to methods across the hadoop-hdfs

project. (Brandon Li via harsh)

HDFS-3537. Move libhdfs and fuse-dfs source to native subdirectories.

(Colin Patrick McCabe via eli)

HDFS-3665. Add a test for renaming across file systems via a symlink. (eli)

HDFS-3666. Plumb more exception messages to terminate. (eli)

HDFS-3673. libhdfs: fix some compiler warnings. (Colin Patrick McCabe via eli)

HDFS-3675. libhdfs: follow documented return codes. (Colin Patrick McCabe via eli)

HDFS-1249. With fuse-dfs, chown which only has owner (or only group)

argument fails with Input/output error. (Colin Patrick McCabe via eli)

HDFS-3583. Convert remaining tests to Junit4. (Andrew Wang via atm)

HDFS-3711. Manually convert remaining tests to JUnit4. (Andrew Wang via atm)

HDFS-3650. Use MutableQuantiles to provide latency histograms for various

operations. (Andrew Wang via atm)

HDFS-3667. Add retry support to WebHdfsFileSystem. (szetszwo)

HDFS-3291. add test that covers HttpFS working w/ a non-HDFS Hadoop

filesystem (tucu)

HDFS-3634. Add self-contained, mavenized fuse\_dfs test. (Colin Patrick

McCabe via atm)

HDFS-3190. Simple refactors in existing NN code to assist

QuorumJournalManager extension. (todd)

HDFS-3276. initializeSharedEdits should have a -nonInteractive flag (todd)

HDFS-3765. namenode -initializeSharedEdits should be able to initialize

all shared storages. (Vinay and todd via todd)

HDFS-3723. Add support -h, -help to all the commands. (Jing Zhao via

suresh)

HDFS-3803. Change BlockPoolSliceScanner chatty INFO log to DEBUG.

(Andrew Purtell via suresh)

HDFS-3802. StartupOption.name in HdfsServerConstants should be final.

(Jing Zhao via szetszwo)

HDFS-3796. Speed up edit log tests by avoiding fsync() (todd)

HDFS-2963. Console Output is confusing while executing metasave

(dfsadmin command). (Andrew Wang via eli)

HDFS-3672. Expose disk-location information for blocks to enable better

scheduling. (Andrew Wang via atm)

HDFS-2727. libhdfs should get the default block size from the server.

(Colin Patrick McCabe via eli)

HDFS-3832. Remove protocol methods related to DistributedUpgrade. (suresh)

HDFS-3819. Should check whether invalidate work percentage default value is

not greater than 1.0f. (Jing Zhao via jitendra)

HDFS-3177. Update DFSClient and DataXceiver to handle different checkum

types in file checksum computation. (Kihwal Lee via szetszwo)

HDFS-3844. Add @Override and remove {@inheritdoc} and unnecessary

imports. (Jing Zhao via suresh)

HDFS-3853. Port MiniDFSCluster enableManagedDfsDirsRedundancy

option to branch-2. (Colin Patrick McCabe via eli)

HDFS-3871. Change NameNodeProxies to use RetryUtils. (Arun C Murthy

via szetszwo)

HDFS-3887. Remove redundant chooseTarget methods in BlockPlacementPolicy.

(Jing Zhao via szetszwo)

HDFS-3888. Clean up BlockPlacementPolicyDefault. (Jing Zhao via szetszwo)

HDFS-3907. Allow multiple users for local block readers. (eli)

HDFS-3510. Editlog pre-allocation is performed prior to writing edits

to avoid partial edits case disk out of space. (Colin McCabe via todd)

HDFS-3910. DFSTestUtil#waitReplication should timeout. (eli)

HDFS-3920. libwebdhfs string processing and using strerror consistently

to handle all errors. (Jing Zhao via suresh)

OPTIMIZATIONS

HDFS-2982. Startup performance suffers when there are many edit log

segments. (Colin Patrick McCabe via todd)

HDFS-2834. Add a ByteBuffer-based read API to DFSInputStream.

(Henry Robinson via todd)

HDFS-3110. Use directRead API to reduce the number of buffer copies in

libhdfs (Henry Robinson via todd)

HDFS-3697. Enable fadvise readahead by default. (todd)

HDFS-2421. Improve the concurrency of SerialNumberMap in NameNode.

(Jing Zhao and Weiyan Wang via szetszwo)

HDFS-3866. HttpFS POM should have property where to download tomcat from (zero45 via tucu)

BUG FIXES

HDFS-3385. The last block of INodeFileUnderConstruction is not

necessarily a BlockInfoUnderConstruction, so do not cast it in

FSNamesystem.recoverLeaseInternal(..). (szetszwo)

HDFS-3414. Balancer does not find NameNode if rpc-address or

servicerpc-address are not set in client configs. (atm)

HDFS-3031. Fix complete() and getAdditionalBlock() RPCs to be idempotent

(todd)

HDFS-2759. Pre-allocate HDFS edit log files after writing version number.

(atm)

HDFS-3413. TestFailureToReadEdits timing out. (atm)

HDFS-3422. TestStandbyIsHot timeouts too aggressive (todd)

HDFS-3433. GetImageServlet should allow administrative requestors when

security is enabled. (atm)

HDFS-1153. dfsnodelist.jsp should handle invalid input parameters.

(Ravi Phulari via eli)

HDFS-3434. InvalidProtocolBufferException when visiting DN

browseDirectory.jsp (eli)

HDFS-2800. Fix cancellation of checkpoints in the standby node to be more

reliable. (todd)

HDFS-3391. Fix InvalidateBlocks to compare blocks including their

generation stamps. (todd)

HDFS-3444. hdfs groups command doesn't work with security enabled. (atm)

HDFS-2717. BookKeeper Journal output stream doesn't check addComplete rc.

(Ivan Kelly via umamahesh)

HDFS-3415. Make sure all layout versions are the same for all storage

directories in the Namenode. (Brandon Li via szetszwo)

HDFS-3436. In DataNode.transferReplicaForPipelineRecovery(..), it should

use the stored generation stamp to check if the block is valid. (Vinay

via szetszwo)

HDFS-3460. HttpFS proxyuser validation with Kerberos ON uses full

principal name. (tucu)

HDFS-3058. HA: Bring BookKeeperJournalManager up to date with HA changes.

(Ivan Kelly via umamahesh)

HDFS-3368. Missing blocks due to bad DataNodes coming up and down. (shv)

HDFS-3452. BKJM:Switch from standby to active fails and NN gets shut down

due to delay in clearing of lock. (umamahesh)

HDFS-3398. Client will not retry when primaryDN is down once it's just got pipeline.

(Amith D K via umamahesh)

HDFS-3474. Cleanup Exception handling in BookKeeper journal manager.

(Ivan Kelly via umamahesh)

HDFS-3468. Make BKJM-ZK session timeout configurable. (umamahesh)

HDFS-3423. BKJM: NN startup is failing, when tries to recoverUnfinalizedSegments()

a bad inProgress\_ ZNodes. (Ivan Kelly and Uma via umamahesh)

HDFS-3441. Race condition between rolling logs at active NN and purging at standby.

(Rakesh R via umamahesh)

HDFS-3484. hdfs fsck doesn't work if NN HTTP address is set to

0.0.0.0 even if NN RPC address is configured. (atm via eli)

HDFS-3486. offlineimageviewer can't read fsimage files that contain

persistent delegation tokens. (Colin Patrick McCabe via eli)

HDFS-3487. offlineimageviewer should give byte offset information

when it encounters an exception. (Colin Patrick McCabe via eli)

HDFS-3442. Incorrect count for Missing Replicas in FSCK report. (Andrew

Wang via atm)

HDFS-2025. Go Back to File View link is not working in tail.jsp.

(Ashish and Sravan via umamahesh)

HDFS-3501. Checkpointing with security enabled will stop working

after ticket lifetime expires. (atm via eli)

HDFS-3266. DFSTestUtil#waitCorruptReplicas doesn't sleep between checks.

(Madhukara Phatak via atm)

HDFS-3505. DirectoryScanner does not join all threads in shutdown.

(Colin Patrick McCabe via eli)

HDFS-3485. DataTransferThrottler will over-throttle when currentTimeMillis

jumps (Andy Isaacson via todd)

HDFS-2914. HA: Standby should not enter safemode when resources are low.

(Vinay via atm)

HDFS-3235. MiniDFSClusterManager doesn't correctly support -format option.

(Henry Robinson via atm)

HDFS-3514. Add missing TestParallelLocalRead. (Henry Robinson via atm)

HDFS-3243. TestParallelRead timing out on jenkins. (Henry Robinson via todd)

HDFS-3490. DatanodeWebHdfsMethods throws NullPointerException if

NamenodeRpcAddressParam is not set. (szetszwo)

HDFS-2797. Fix misuses of InputStream#skip in the edit log code.

(Colin Patrick McCabe via eli)

HDFS-3517. TestStartup should bind ephemeral ports. (eli)

HDFS-3522. If a namenode is in safemode, it should throw SafeModeException

when getBlockLocations has zero locations. (Brandon Li via szetszwo)

HDFS-3408. BKJM : Namenode format fails, if there is no BK root. (Rakesh R via umamahesh)

HDFS-3389. Document the BKJM usage in Namenode HA. (umamahesh and Ivan Kelly via umamahesh)

HDFS-3531. EditLogFileOutputStream#preallocate should check for

incomplete writes. (Colin Patrick McCabe via eli)

HDFS-766. Error message not clear for set space quota out of boundary

values. (Jon Zuanich via atm)

HDFS-3480. Multiple SLF4J binding warning. (Vinay via eli)

HDFS-3524. Update TestFileLengthOnClusterRestart for HDFS-3522. (Brandon

Li via szetszwo)

HDFS-3559. DFSTestUtil: use Builder class to construct DFSTestUtil

instances. (Colin Patrick McCabe via atm)

HDFS-3551. WebHDFS CREATE should use client location for HTTP redirection.

(szetszwo)

HDFS-3157. Fix a bug in the case that the generation stamps of the stored

block in a namenode and the reported block from a datanode do not match.

(Ashish Singhi via szetszwo)

HDFS-3575. HttpFS does not log Exception Stacktraces (brocknoland via tucu)

HDFS-3574. Fix small race and do some cleanup in GetImageServlet (todd)

HDFS-3581. FSPermissionChecker#checkPermission sticky bit check

missing range check. (eli)

HDFS-3541. Deadlock between recovery, xceiver and packet responder.

(Vinay via umamahesh)

HDFS-3428. Move DelegationTokenRenewer to common (tucu)

HDFS-3491. HttpFs does not set permissions correctly (tucu)

HDFS-3580. incompatible types; no instance(s) of type variable(s) V exist

so that V conforms to boolean compiling HttpFSServer.java with OpenJDK

(adi2 via tucu)

HDFS-3603. Decouple TestHDFSTrash from TestTrash. (Jason Lowe via eli)

HDFS-711. hdfsUtime does not handle atime = 0 or mtime = 0 correctly.

(Colin Patrick McCabe via eli)

HDFS-3548. NamenodeFsck.copyBlock fails to create a Block Reader.

(Colin Patrick McCabe via eli)

HDFS-3615. Two BlockTokenSecretManager findbugs warnings. (atm)

HDFS-470. libhdfs should handle 0-length reads from FSInputStream

correctly. (Colin Patrick McCabe via eli)

HDFS-3492. fix some misuses of InputStream#skip.

(Colin Patrick McCabe via eli)

HDFS-3609. libhdfs: don't force the URI to look like hdfs://hostname:port.

(Colin Patrick McCabe via eli)

HDFS-2966 TestNameNodeMetrics tests can fail under load. (stevel)

HDFS-3605. Block mistakenly marked corrupt during edit log catchup

phase of failover. (todd and Brahma Reddy Battula via todd)

HDFS-3690. BlockPlacementPolicyDefault incorrectly casts LOG. (eli)

HDFS-3597. SNN fails to start after DFS upgrade. (Andy Isaacson via todd)

HDFS-3608. fuse\_dfs: detect changes in UID ticket cache. (Colin Patrick

McCabe via atm)

HDFS-3709. TestStartup tests still binding to the ephemeral port. (eli)

HDFS-3720. hdfs.h must get packaged. (Colin Patrick McCabe via atm)

HDFS-3626. Creating file with invalid path can corrupt edit log (todd)

HDFS-3679. fuse\_dfs notrash option sets usetrash. (Conrad Meyer via suresh)

HDFS-3732. fuse\_dfs: incorrect configuration value checked for connection

expiry timer period. (Colin Patrick McCabe via atm)

HDFS-3738. TestDFSClientRetries#testFailuresArePerOperation sets incorrect

timeout config. (atm)

HDFS-3756. DelegationTokenFetcher creates 2 HTTP connections, the second

one not properly configured. (tucu)

HDFS-3579. libhdfs: fix exception handling. (Colin Patrick McCabe via atm)

HDFS-3754. BlockSender doesn't shutdown ReadaheadPool threads. (eli)

HDFS-3760. primitiveCreate is a write, not a read. (Andy Isaacson via atm)

HDFS-3710. libhdfs misuses O\_RDONLY/WRONLY/RDWR. (Andy Isaacson via atm)

HDFS-3721. hsync support broke wire compatibility. (todd and atm)

HDFS-3758. TestFuseDFS test failing. (Colin Patrick McCabe via eli)

HDFS-2330. In NNStorage.java, IOExceptions of stream closures can mask

root exceptions. (umamahesh via todd)

HDFS-3790. test\_fuse\_dfs.c doesn't compile on centos 5. (Colin Patrick

McCabe via atm)

HDFS-3658. Fix bugs in TestDFSClientRetries and add more tests. (szetszwo)

HDFS-3794. WebHDFS OPEN returns the incorrect Content-Length in the HTTP

header when offset is specified and length is omitted.

(Ravi Prakash via szetszwo)

HDFS-3048. Small race in BlockManager#close. (Andy Isaacson via eli)

HDFS-3194. DataNode block scanner is running too frequently.

(Andy Isaacson via eli)

HDFS-3808. fuse\_dfs: postpone libhdfs intialization until after fork.

(Colin Patrick McCabe via atm)

HDFS-3788. ByteRangeInputStream should not expect HTTP Content-Length header

when chunked transfer-encoding is used. (szetszwo)

HDFS-3816. Invalidate work percentage default value should be 0.32f

instead of 32. (Jing Zhao via suresh)

HDFS-3707. TestFSInputChecker: improper use of skip.

(Colin Patrick McCabe via eli)

HDFS-3830. test\_libhdfs\_threaded: use forceNewInstance.

(Colin Patrick McCabe via eli)

HDFS-3835. Long-lived 2NN cannot perform a checkpoint if security is

enabled and the NN restarts with outstanding delegation tokens. (atm)

HDFS-3715. Fix TestFileCreation#testFileCreationNamenodeRestart.

(Andrew Whang via eli)

HDFS-3683. Edit log replay progress indicator shows >100% complete. (Plamen

Jeliazkov via atm)

HDFS-3731. Release upgrade must handle blocks being written from 1.0.

(Colin Patrick McCabe via eli)

HDFS-3856. TestHDFSServerPorts failure is causing surefire fork failure.

(eli)

HDFS-3860. HeartbeatManager#Monitor may wrongly hold the writelock of

namesystem. (Jing Zhao via atm)

HDFS-3849. When re-loading the FSImage, we should clear the existing

genStamp and leases. (Colin Patrick McCabe via atm)

HDFS-3864. NN does not update internal file mtime for OP\_CLOSE when reading

from the edit log. (atm)

HDFS-3837. Fix DataNode.recoverBlock findbugs warning. (eli)

HDFS-3733. Audit logs should include WebHDFS access. (Andy Isaacson via

eli)

HDFS-2686. Remove DistributedUpgrade related code. (suresh)

HDFS-3833. TestDFSShell fails on windows due to concurrent file

read/write. (Brandon Li via suresh)

HDFS-3466. Get HTTP kerberos principal from the web authentication keytab.

(omalley)

HDFS-3879. Fix findbugs warning in TransferFsImage on branch-2. (eli)

HDFS-3469. start-dfs.sh will start zkfc, but stop-dfs.sh will not stop zkfc similarly.

(Vinay via umamahesh)

HDFS-1490. TransferFSImage should timeout (Dmytro Molkov and Vinay via todd)

HDFS-3828. Block Scanner rescans blocks too frequently.

(Andy Isaacson via eli)

HDFS-3895. hadoop-client must include commons-cli (tucu)

HDFS-2757. Cannot read a local block that's being written to when

using the local read short circuit. (Jean-Daniel Cryans via eli)

HDFS-3664. BlockManager race when stopping active services.

(Colin Patrick McCabe via eli)

HDFS-3928. MiniDFSCluster should reset the first ExitException on shutdown. (eli)

HDFS-3938. remove current limitations from HttpFS docs. (tucu)

HDFS-3944. Httpfs resolveAuthority() is not resolving host correctly. (tucu)

HDFS-3972. Trash emptier fails in secure HA cluster. (todd via eli)

HDFS-4443. Remove a trailing '`' character from the HTML code generated by

NamenodeJspHelper.generateNodeData(..). (Christian Rohling via szetszwo)

BREAKDOWN OF HDFS-3042 SUBTASKS

HDFS-2185. HDFS portion of ZK-based FailoverController (todd)

HDFS-3200. Scope all ZKFC configurations by nameservice (todd)

HDFS-3223. add zkfc to hadoop-daemon.sh script (todd)

HDFS-3261. TestHASafeMode fails on HDFS-3042 branch (todd)

HDFS-3159. Document NN auto-failover setup and configuration (todd)

HDFS-3412. Fix findbugs warnings in auto-HA branch (todd)

HDFS-3432. TestDFSZKFailoverController tries to fail over too early (todd)

HDFS-3902. TestDatanodeBlockScanner#testBlockCorruptionPolicy is broken.

(Andy Isaacson via eli)

Release 2.0.0-alpha - 05-23-2012

INCOMPATIBLE CHANGES

HDFS-2676. Remove Avro RPC. (suresh)

HDFS-2303. Unbundle jsvc. (Roman Shaposhnik and Mingjie Lai via eli)

HDFS-3137. Bump LAST\_UPGRADABLE\_LAYOUT\_VERSION to -16. (eli)

HDFS-3138. Move DatanodeInfo#ipcPort to DatanodeID. (eli)

HDFS-3164. Move DatanodeInfo#hostName to DatanodeID. (eli)

NEW FEATURES

HDFS-2978. The NameNode should expose name dir statuses via JMX. (atm)

HDFS-395. DFS Scalability: Incremental block reports. (Tomasz Nykiel

via hairong)

HDFS-2517. Add protobuf service for JounralProtocol. (suresh)

HDFS-2518. Add protobuf service for NamenodeProtocol. (suresh)

HDFS-2520. Add protobuf service for InterDatanodeProtocol. (suresh)

HDFS-2519. Add protobuf service for DatanodeProtocol. (suresh)

HDFS-2581. Implement protobuf service for JournalProtocol. (suresh)

HDFS-2618. Implement protobuf service for NamenodeProtocol. (suresh)

HDFS-2629. Implement protobuf service for InterDatanodeProtocol. (suresh)

HDFS-2636. Implement protobuf service for ClientDatanodeProtocol. (suresh)

HDFS-2642. Protobuf translators for DatanodeProtocol. (jitendra)

HDFS-2647. Used protobuf based RPC for InterDatanodeProtocol,

ClientDatanodeProtocol, JournalProtocol, NamenodeProtocol. (suresh)

HDFS-2661. Enable protobuf RPC for DatanodeProtocol. (jitendra)

HDFS-2697. Move RefreshAuthPolicy, RefreshUserMappings, GetUserMappings

protocol to protocol buffers. (jitendra)

HDFS-2880. Protobuf changes in DatanodeProtocol to add multiple storages.

(suresh)

HDFS-2899. Service protocol changes in DatanodeProtocol to add multiple

storages. (suresh)

HDFS-2430. The number of failed or low-resource volumes the NN can tolerate

should be configurable. (atm)

HDFS-1623. High Availability Framework for HDFS NN. Contributed by Todd

Lipcon, Aaron T. Myers, Eli Collins, Uma Maheswara Rao G, Bikas Saha,

Suresh Srinivas, Jitendra Nath Pandey, Hari Mankude, Brandon Li, Sanjay

Radia, Mingjie Lai, and Gregory Chanan

HDFS-2941. Add an administrative command to download a copy of the fsimage

from the NN. (atm)

HDFS-2413. Add an API DistributedFileSystem.isInSafeMode() and change

DistributedFileSystem to @InterfaceAudience.LimitedPrivate.

(harsh via szetszwo)

HDFS-3167. CLI-based driver for MiniDFSCluster. (Henry Robinson via atm)

HDFS-3148. The client should be able to use multiple local interfaces

for data transfer. (eli)

HDFS-3000. Add a public API for setting quotas. (atm)

HDFS-3102. Add CLI tool to initialize the shared-edits dir. (atm)

HDFS-3004. Implement Recovery Mode. (Colin Patrick McCabe via eli)

HDFS-3282. Add HdfsDataInputStream as a public API. (umamahesh)

HDFS-3298. Add HdfsDataOutputStream as a public API. (szetszwo)

HDFS-234. Integration with BookKeeper logging system. (Ivan Kelly

via umamahesh)

IMPROVEMENTS

HDFS-2018. Move all journal stream management code into one place.

(Ivan Kelly via jitendra)

HDFS-2223. Untangle depencencies between NN components (todd)

HDFS-2351. Change Namenode and Datanode to register each of their protocols

seperately (sanjay)

HDFS-2337. DFSClient shouldn't keep multiple RPC proxy references (atm)

HDFS-2181. Separate HDFS Client wire protocol data types (sanjay)

HDFS-2459. Separate datatypes for Journal Protocol. (suresh)

HDFS-2480. Separate datatypes for NamenodeProtocol. (suresh)

HDFS-2489. Move Finalize and Register to separate file out of

DatanodeCommand.java. (suresh)

HDFS-2488. Separate datatypes for InterDatanodeProtocol. (suresh)

HDFS-2496. Separate datatypes for DatanodeProtocol. (suresh)

HDFS-2479. HDFS Client Data Types in Protocol Buffers (sanjay)

HADOOP-7862. Hdfs changes to work with HADOOP-7862: Move the support for

multiple protocols to lower layer so that Writable, PB and Avro can all

use it. (sanjay)

HDFS-2597. ClientNameNodeProtocol in Protocol Buffers. (sanjay)

HDFS-2651. ClientNameNodeProtocol Translators for Protocol Buffers. (sanjay)

HDFS-2650. Replace @inheritDoc with @Override. (Hari Mankude via suresh).

HDFS-2669. Enable protobuf rpc for ClientNamenodeProtocol. (sanjay)

HDFS-2801. Provide a method in client side translators to check for a

methods supported in underlying protocol. (jitendra)

HDFS-2895. Remove Writable wire protocol types and translators to

complete transition to protocol buffers. (suresh)

HDFS-2992. Edit log failure trace should include transaction ID of

error. (Colin Patrick McCabe via eli)

HDFS-3030. Remove getProtocolVersion and getProtocolSignature from

translators. (jitendra)

HDFS-2158. Add JournalSet to manage the set of journals. (jitendra)

HDFS-2334. Add Closeable to JournalManager. (Ivan Kelly via jitendra)

HDFS-1580. Add interface for generic Write Ahead Logging mechanisms.

(Ivan Kelly via jitendra)

HDFS-3060. Bump TestDistributedUpgrade#testDistributedUpgrade timeout (eli)

HDFS-2410. Further cleanup of hardcoded configuration keys and values.

(suresh)

HDFS-2878. Fix TestBlockRecovery and move it back into main test directory.

(todd)

HDFS-3003. Remove getHostPortString() from NameNode, replace it with

NetUtils.getHostPortString(). (Brandon Li via atm)

HDFS-3014. FSEditLogOp and its subclasses should have toString() method.

(Sho Shimauchi via atm)

HDFS-3021. Use generic type to declare FSDatasetInterface. (szetszwo)

HDFS-3056. Add a new interface RollingLogs for DataBlockScanner logging.

(szetszwo)

HDFS-2731. Add command to bootstrap the Standby Node's name directories

from the Active NameNode. (todd)

HDFS-3082. Clean up FSDatasetInterface and change DataNode.data to package

private. (szetszwo)

HDFS-3057. httpfs and hdfs launcher scripts should honor CATALINA\_HOME

and HADOOP\_LIBEXEC\_DIR (rvs via tucu)

HDFS-3088. Move FSDatasetInterface inner classes to a package. (szetszwo)

HDFS-3111. Missing license headers in trunk. (umamahesh)

HDFS-3091. Update the usage limitations of ReplaceDatanodeOnFailure policy in

the config description for the smaller clusters. (szetszwo via umamahesh)

HDFS-3105. Add DatanodeStorage information to block recovery. (szetszwo)

HDFS-3086. Change Datanode not to send storage list in registration.

(szetszwo)

HDFS-309. FSEditLog should log progress during replay. (Sho Shimauchi

via todd)

HDFS-3044. fsck move should be non-destructive by default.

(Colin Patrick McCabe via eli)

HDFS-3071. haadmin failover command does not provide enough detail when

target NN is not ready to be active. (todd)

HDFS-3089. Move FSDatasetInterface and the related classes to a package.

(szetszwo)

HDFS-3129. NetworkTopology: add test that getLeaf should check for

invalid topologies. (Colin Patrick McCabe via eli)

HDFS-3155. Clean up FSDataset implemenation related code. (szetszwo)

HDFS-3158. LiveNodes member of NameNodeMXBean should list non-DFS used

space and capacity per DN. (atm)

HDFS-3172. dfs.upgrade.permission is dead code. (eli)

HDFS-3171. The DatanodeID "name" field is overloaded. (eli)

HDFS-3144. Refactor DatanodeID#getName by use. (eli)

HDFS-3130. Move fsdataset implementation to a package. (szetszwo)

HDFS-3120. Enable hsync and hflush by default. (eli)

HDFS-3187. Upgrade guava to 11.0.2 (todd)

HDFS-3168. Remove unnecessary "throw IOException" and change fields to

final in FSNamesystem and BlockManager. (szetszwo)

HDFS-2564. Cleanup unnecessary exceptions thrown and unnecessary casts.

(Hari Mankude via eli)

HDFS-3084. FenceMethod.tryFence() and ShellCommandFencer should pass

namenodeId as well as host:port (todd)

HDFS-3050. rework OEV to share more code with the NameNode.

(Colin Patrick McCabe via eli)

HDFS-3204. Minor modification to JournalProtocol.proto to make

it generic. (suresh)

HDFS-3226. Allow GetConf tool to print arbitrary keys (todd)

HDFS-3240. Drop log level of "heartbeat: ..." in BPServiceActor to DEBUG

(todd)

HDFS-3238. ServerCommand and friends don't need to be writables. (eli)

HDFS-3094. add -nonInteractive and -force option to namenode -format

command (Arpit Gupta via todd)

HDFS-3244. Remove dead writable code from hdfs/protocol. (eli)

HDFS-3247. Improve bootstrapStandby behavior when original NN is not active

(todd)

HDFS-3249. Use ToolRunner.confirmPrompt in NameNode (todd)

HDFS-3179. Improve the exception message thrown by DataStreamer when

it failed to add a datanode. (szetszwo)

HDFS-2983. Relax the build version check to permit rolling upgrades within a release. (atm)

HDFS-3259. NameNode#initializeSharedEdits should populate shared edits dir

with edit log segments. (atm)

HDFS-2708. Stats for the # of blocks per DN. (atm)

HDFS-3279. Move the FSEditLog constructor with @VisibleForTesting to

TestEditLog. (Arpit Gupta via szetszwo)

HDFS-3294. Fix code indentation in NamenodeWebHdfsMethods and

DatanodeWebHdfsMethods. (szetszwo)

HDFS-3263. HttpFS should read HDFS config from Hadoop site.xml files (tucu)

HDFS-3206. Miscellaneous xml cleanups for OEV.

(Colin Patrick McCabe via eli)

HDFS-3169. TestFsck should test multiple -move operations in a row.

(Colin Patrick McCabe via eli)

HDFS-3258. Test for HADOOP-8144 (pseudoSortByDistance in

NetworkTopology for first rack local node). (Junping Du via eli)

HDFS-3322. Use HdfsDataInputStream and HdfsDataOutputStream in Hdfs.

(szetszwo)

HDFS-3339. Change INode to package private. (John George via szetszwo)

HDFS-3303. Remove Writable implementation from RemoteEditLogManifest.

(Brandon Li via szetszwo)

HDFS-2617. Replaced Kerberized SSL for image transfer and fsck

with SPNEGO-based solution. (jghoman, omalley, tucu, and atm via eli)

HDFS-3365. Enable users to disable socket caching in DFS client

configuration (todd)

HDFS-3375. Put client name in DataXceiver thread name for readBlock

and keepalive (todd)

HDFS-3363. Define BlockCollection and MutableBlockCollection interfaces

so that INodeFile and INodeFileUnderConstruction do not have to be used in

block management. (John George via szetszwo)

HDFS-3211. Add fence(..) and replace NamenodeRegistration with JournalInfo

and epoch in JournalProtocol. (suresh via szetszwo)

HADOOP-8285 HDFS changes for Use ProtoBuf for RpcPayLoadHeader (sanjay radia)

HDFS-3418. Rename BlockWithLocationsProto datanodeIDs field to storageIDs.

(eli)

OPTIMIZATIONS

HDFS-2477. Optimize computing the diff between a block report and the

namenode state. (Tomasz Nykiel via hairong)

HDFS-2495. Increase granularity of write operations in ReplicationMonitor

thus reducing contention for write lock. (Tomasz Nykiel via hairong)

HDFS-2476. More CPU efficient data structure for under-replicated,

over-replicated, and invalidated blocks. (Tomasz Nykiel via todd)

HDFS-3036. Remove unused method DFSUtil#isDefaultNamenodeAddress. (atm)

HDFS-3378. Remove DFS\_NAMENODE\_SECONDARY\_HTTPS\_PORT\_KEY and DEFAULT. (eli)

BUG FIXES

HDFS-2481. Unknown protocol: org.apache.hadoop.hdfs.protocol.ClientProtocol.

(sanjay)

HDFS-2497. Fix TestBackupNode failure. (suresh)

HDFS-2499. RPC client is created incorrectly introduced in HDFS-2459.

(suresh)

HDFS-2526. (Client)NamenodeProtocolTranslatorR23 do not need to keep a

reference to rpcProxyWithoutRetry (atm)

HDFS-2532. TestDfsOverAvroRpc timing out in trunk (Uma Maheswara Rao G

via todd)

HDFS-2666. Fix TestBackupNode failure. (suresh)

HDFS-2663. Optional protobuf parameters are not handled correctly. (suresh)

HDFS-2694. Removal of Avro broke non-PB NN services. (atm)

HDFS-2687. Tests failing with ClassCastException post protobuf RPC

changes. (suresh)

HDFS-2700. Fix failing TestDataNodeMultipleRegistrations in trunk

(Uma Maheswara Rao G via todd)

HDFS-2739. SecondaryNameNode doesn't start up. (jitendra)

HDFS-2768. BackupNode stop can not close proxy connections because

it is not a proxy instance. (Uma Maheswara Rao G via eli)

HDFS-2968. Protocol translator for BlockRecoveryCommand broken when

multiple blocks need recovery. (todd)

HDFS-3020. Fix editlog to automatically sync when buffer is full. (todd)

HDFS-3038. Add FSEditLog.metrics to findbugs exclude list. (todd via atm)

HDFS-2188. Make FSEditLog create its journals from a list of URIs rather

than NNStorage. (Ivan Kelly via jitendra)

HDFS-1765. Block Replication should respect under-replication

block priority. (Uma Maheswara Rao G via eli)

HDFS-2285. BackupNode should reject requests to modify namespace.

(shv and Uma Maheswara Rao)

HDFS-2764. TestBackupNode is racy. (atm)

HDFS-3093. Fix bug where namenode -format interpreted the -force flag in

reverse. (todd)

HDFS-3005. FSVolume.decDfsUsed(..) should be synchronized. (szetszwo)

HDFS-3099. SecondaryNameNode does not properly initialize metrics system.

(atm)

HDFS-3062. Fix bug which prevented MR job submission from creating

delegation tokens on an HA cluster. (Mingjie Lai via todd)

HDFS-3083. Cannot run an MR job with HA and security enabled when

second-listed NN active. (atm)

HDFS-3100. In BlockSender, throw an exception when it needs to verify

checksum but the meta data does not exist. (Brandon Li via szetszwo)

HDFS-3132. Fix findbugs warning on HDFS trunk. (todd)

HDFS-3156. TestDFSHAAdmin is failing post HADOOP-8202. (atm)

HDFS-3143. TestGetBlocks.testGetBlocks is failing. (Arpit Gupta via atm)

HDFS-3142. TestHDFSCLI.testAll is failing. (Brandon Li via atm)

HDFS-3070. HDFS balancer doesn't ensure that hdfs-site.xml is loaded. (atm)

HDFS-2995. start-dfs.sh should only start the 2NN for namenodes

with dfs.namenode.secondary.http-address configured. (eli)

HDFS-3174. Fix assert in TestPendingDataNodeMessages. (eli)

HDFS-3199. TestValidateConfigurationSettings is failing. (todd via eli)

HDFS-3202. NamespaceInfo PB translation drops build version. (atm)

HDFS-3109. Remove hsqldf exclusions from pom.xml. (Ravi Prakash

via suresh)

HDFS-3210. JsonUtil#toJsonMap for for a DatanodeInfo should use

"ipAddr" instead of "name". (eli)

HDFS-3208. Bogus entries in hosts files are incorrectly displayed

in the report. (eli)

HDFS-3136. Remove SLF4J dependency as HDFS does not need it to fix

unnecessary warnings. (Jason Lowe via suresh)

HDFS-3214. InterDatanodeProtocolServerSideTranslatorPB doesn't handle

null response from initReplicaRecovery (todd)

HDFS-3119. Overreplicated block is not deleted even after the replication

factor is reduced after sync follwed by closing that file. (Ashish Singhi

via umamahesh)

HDFS-3234. Accidentally left log message in GetConf after HDFS-3226 (todd)

HDFS-3236. NameNode does not initialize generic conf keys when started

with -initializeSharedEditsDir (atm)

HDFS-3248. bootstrapStandby repeated twice in hdfs namenode usage message

(Colin Patrick McCabe via todd)

HDFS-2696. Fix the fuse-fds build. (Bruno Mahé via eli)

HDFS-3254. Branch-2 build broken due to wrong version number in

fuse-dfs' pom.xml. (Anupam Seth via eli)

HDFS-3260. TestDatanodeRegistration should set minimum DN version in

addition to minimum NN version. (atm)

HDFS-3255. HA DFS returns wrong token service (Daryn Sharp via todd)

HDFS-3256. HDFS considers blocks under-replicated if topology script is

configured with only 1 rack. (atm)

HDFS-2799. Trim fs.checkpoint.dir values. (Amith D K via eli)

HDFS-2765. TestNameEditsConfigs is incorrectly swallowing IOE. (atm)

HDFS-3280. DFSOutputStream.sync should not be synchronized (todd)

HDFS-3268. FileContext API mishandles token service and incompatible with

HA (Daryn Sharp via todd)

HDFS-3284. bootstrapStandby fails in secure cluster (todd)

HDFS-3165. HDFS Balancer scripts are refering to wrong path of

hadoop-daemon.sh (Amith D K via eli)

HDFS-891. DataNode no longer needs to check for dfs.network.script.

(harsh via eli)

HDFS-3305. GetImageServlet should consider SBN a valid requestor in a

secure HA setup. (atm)

HDFS-3314. HttpFS operation for getHomeDirectory is incorrect. (tucu)

HDFS-3319. Change DFSOutputStream to not to start a thread in constructors.

(szetszwo)

HDFS-3222. DFSInputStream#openInfo should not silently get the length as 0

when locations length is zero for last partial block. (umamahesh)

HDFS-3181. Fix a test case in TestLeaseRecovery2. (szetszwo)

HDFS-3309. HttpFS (Hoop) chmod not supporting octal and sticky bit

permissions. (tucu)

HDFS-3326. Append enabled log message uses the wrong variable.

(Matthew Jacobs via eli)

HDFS-3275. Skip format for non-file based directories.

(Amith D K via umamahesh)

HDFS-3286. When the threshold value for balancer is zero, unexpected output is displayed.

(Ashish Singhi via umamahesh)

HDFS-3336. hdfs launcher script will be better off not special casing

namenode command with regards to hadoop.security.logger (rvs via tucu)

HDFS-3330. If GetImageServlet throws an Error or RTE, response should not

have HTTP "OK" status. (todd)

HDFS-3351. NameNode#initializeGenericKeys should always set fs.defaultFS

regardless of whether HA or Federation is enabled. (atm)

HDFS-3332. NullPointerException in DN when directoryscanner is trying to

report bad blocks. (Amith D K via umamahesh)

HDFS-3359. DFSClient.close should close cached sockets. (todd)

HDFS-3350. In INode, add final to compareTo(..), equals(..) and hashCode(),

and remove synchronized from updatePermissionStatus(..). (szetszwo)

HDFS-3357. DataXceiver reads from client socket with incorrect/no timeout

(todd)

HDFS-3376. DFSClient fails to make connection to DN if there are many

unusable cached sockets (todd)

HDFS-3328. NPE in DataNode.getIpcPort. (eli)

HDFS-3396. FUSE build fails on Ubuntu 12.04. (Colin Patrick McCabe via eli)

HDFS-3395. NN doesn't start with HA+security enabled and HTTP address set to 0.0.0.0. (atm)

HDFS-3026. HA: Handle failure during HA state transition. (atm)

HDFS-860. fuse-dfs truncate behavior causes issues with scp.

(Brian Bockelman via eli)

BREAKDOWN OF HDFS-1623 SUBTASKS

HDFS-2179. Add fencing framework and mechanisms for NameNode HA. (todd)

HDFS-1974. Introduce active and standy states to the namenode. (suresh)

HDFS-2407. getServerDefaults and getStats don't check operation category (atm)

HDFS-1973. HA: HDFS clients must handle namenode failover and switch over to

the new active namenode. (atm)

HDFS-2301. Start/stop appropriate namenode services when transition to active

and standby states. (suresh)

HDFS-2231. Configuration changes for HA namenode. (suresh)

HDFS-2418. Change ConfiguredFailoverProxyProvider to take advantage of

HDFS-2231. (atm)

HDFS-2393. Mark appropriate methods of ClientProtocol with the idempotent

annotation. (atm)

HDFS-2523. Small NN fixes to include HAServiceProtocol and prevent NPE on

shutdown. (todd)

HDFS-2577. NN fails to start since it tries to start secret manager in

safemode. (todd)

HDFS-2582. Scope dfs.ha.namenodes config by nameservice (todd)

HDFS-2591. MiniDFSCluster support to mix and match federation with HA (todd)

HDFS-1975. Support for sharing the namenode state from active to standby.

(jitendra, atm, todd)

HDFS-1971. Send block report from datanode to both active and standby

namenodes. (sanjay, todd via suresh)

HDFS-2616. Change DatanodeProtocol#sendHeartbeat() to return HeartbeatResponse.

(suresh)

HDFS-2622. Fix TestDFSUpgrade in HA branch. (todd)

HDFS-2612. Handle refreshNameNodes in federated HA clusters (todd)

HDFS-2623. Add test case for hot standby capability (todd)

HDFS-2626. BPOfferService.verifyAndSetNamespaceInfo needs to be synchronized

(todd)

HDFS-2624. ConfiguredFailoverProxyProvider doesn't correctly stop

ProtocolTranslators (todd)

HDFS-2625. TestDfsOverAvroRpc failing after introduction of HeartbeatResponse

type (todd)

HDFS-2627. Determine DN's view of which NN is active based on heartbeat

responses (todd)

HDFS-2634. Standby needs to ingest latest edit logs before transitioning to

active (todd)

HDFS-2671. NN should throw StandbyException in response to RPCs in STANDBY

state (todd)

HDFS-2680. DFSClient should construct failover proxy with exponential backoff

(todd)

HDFS-2683. Authority-based lookup of proxy provider fails if path becomes

canonicalized (todd)

HDFS-2689. HA: BookKeeperEditLogInputStream doesn't implement isInProgress()

(atm)

HDFS-2602. NN should log newly-allocated blocks without losing BlockInfo (atm)

HDFS-2667. Fix transition from active to standby (todd)

HDFS-2684. Fix up some failing unit tests on HA branch (todd)

HDFS-2679. Add interface to query current state to HAServiceProtocol (eli via

todd)

HDFS-2677. Web UI should indicate the NN state. (eli via todd)

HDFS-2678. When a FailoverProxyProvider is used, DFSClient should not retry

connection ten times before failing over (atm via todd)

HDFS-2682. When a FailoverProxyProvider is used, Client should not retry for 45

times if it is timing out to connect to server. (Uma Maheswara Rao G via todd)

HDFS-2693. Fix synchronization issues around state transition (todd)

HDFS-1972. Fencing mechanism for block invalidations and replications (todd)

HDFS-2714. Fix test cases which use standalone FSNamesystems (todd)

HDFS-2692. Fix bugs related to failover from/into safe mode. (todd)

HDFS-2716. Configuration needs to allow different dfs.http.addresses for each

HA NN (todd)

HDFS-2720. Fix MiniDFSCluster HA support to work properly on Windows. (Uma

Maheswara Rao G via todd)

HDFS-2291. Allow the StandbyNode to make checkpoints in an HA setup. (todd)

HDFS-2709. Appropriately handle error conditions in EditLogTailer (atm via

todd)

HDFS-2730. Refactor shared HA-related test code into HATestUtil class (todd)

HDFS-2762. Fix TestCheckpoint timing out on HA branch. (Uma Maheswara Rao G via

todd)

HDFS-2724. NN web UI can throw NPE after startup, before standby state is

entered. (todd)

HDFS-2753. Fix standby getting stuck in safemode when blocks are written while

SBN is down. (Hari Mankude and todd via todd)

HDFS-2773. Reading edit logs from an earlier version should not leave blocks in

under-construction state. (todd)

HDFS-2775. Fix TestStandbyCheckpoints.testBothNodesInStandbyState failing

intermittently. (todd)

HDFS-2766. Test for case where standby partially reads log and then performs

checkpoint. (atm)

HDFS-2738. FSEditLog.selectinputStreams is reading through in-progress streams

even when non-in-progress are requested. (atm)

HDFS-2789. TestHAAdmin.testFailover is failing (eli)

HDFS-2747. Entering safe mode after starting SBN can NPE. (Uma Maheswara Rao G

via todd)

HDFS-2772. On transition to active, standby should not swallow ELIE. (atm)

HDFS-2767. ConfiguredFailoverProxyProvider should support NameNodeProtocol.

(Uma Maheswara Rao G via todd)

HDFS-2795. Standby NN takes a long time to recover from a dead DN starting up.

(todd)

HDFS-2592. Balancer support for HA namenodes. (Uma Maheswara Rao G via todd)

HDFS-2367. Enable the configuration of multiple HA cluster addresses. (atm)

HDFS-2812. When becoming active, the NN should treat all leases as freshly

renewed. (todd)

HDFS-2737. Automatically trigger log rolls periodically on the active NN. (todd

and atm)

HDFS-2820. Add a simple sanity check for HA config (todd)

HDFS-2688. Add tests for quota tracking in an HA cluster. (todd)

HDFS-2804. Should not mark blocks under-replicated when exiting safemode (todd)

HDFS-2807. Service level authorizartion for HAServiceProtocol. (jitendra)

HDFS-2809. Add test to verify that delegation tokens are honored after

failover. (jitendra and atm)

HDFS-2838. NPE in FSNamesystem when in safe mode. (Gregory Chanan via eli)

HDFS-2805. Add a test for a federated cluster with HA NNs. (Brandon Li via

jitendra)

HDFS-2841. HAAdmin does not work if security is enabled. (atm)

HDFS-2691. Fixes for pipeline recovery in an HA cluster: report RBW replicas

immediately upon pipeline creation. (todd)

HDFS-2824. Fix failover when prior NN died just after creating an edit log

segment. (atm via todd)

HDFS-2853. HA: NN fails to start if the shared edits dir is marked required

(atm via eli)

HDFS-2845. SBN should not allow browsing of the file system via web UI. (Bikas

Saha via atm)

HDFS-2742. HA: observed dataloss in replication stress test. (todd via eli)

HDFS-2870. Fix log level for block debug info in processMisReplicatedBlocks

(todd)

HDFS-2859. LOCAL\_ADDRESS\_MATCHER.match has NPE when called from

DFSUtil.getSuffixIDs when the host is incorrect (Bikas Saha via todd)

HDFS-2861. checkpointing should verify that the dfs.http.address has been

configured to a non-loopback for peer NN (todd)

HDFS-2860. TestDFSRollback#testRollback is failing. (atm)

HDFS-2769. HA: When HA is enabled with a shared edits dir, that dir should be

marked required. (atm via eli)

HDFS-2863. Failures observed if dfs.edits.dir and shared.edits.dir have same

directories. (Bikas Saha via atm)

HDFS-2874. Edit log should log to shared dirs before local dirs. (todd)

HDFS-2890. DFSUtil#getSuffixIDs should skip unset configurations. (atm)

HDFS-2792. Make fsck work. (atm)

HDFS-2808. HA: haadmin should use namenode ids. (eli)

HDFS-2819. Document new HA-related configs in hdfs-default.xml. (eli)

HDFS-2752. HA: exit if multiple shared dirs are configured. (eli)

HDFS-2894. HA: automatically determine the nameservice Id if only one

nameservice is configured. (eli)

HDFS-2733. Document HA configuration and CLI. (atm)

HDFS-2794. Active NN may purge edit log files before standby NN has a chance to

read them (todd)

HDFS-2901. Improvements for SBN web UI - not show under-replicated/missing

blocks. (Brandon Li via jitendra)

HDFS-2905. HA: Standby NN NPE when shared edits dir is deleted. (Bikas Saha via

jitendra)

HDFS-2579. Starting delegation token manager during safemode fails. (todd)

HDFS-2510. Add HA-related metrics. (atm)

HDFS-2924. Standby checkpointing fails to authenticate in secure cluster.

(todd)

HDFS-2915. HA: TestFailureOfSharedDir.testFailureOfSharedDir() has race

condition. (Bikas Saha via jitendra)

HDFS-2912. Namenode not shutting down when shared edits dir is inaccessible.

(Bikas Saha via atm)

HDFS-2917. HA: haadmin should not work if run by regular user (eli)

HDFS-2939. TestHAStateTransitions fails on Windows. (Uma Maheswara Rao G via

atm)

HDFS-2947. On startup NN throws an NPE in the metrics system. (atm)

HDFS-2942. TestActiveStandbyElectorRealZK fails if build dir does not exist.

(atm)

HDFS-2948. NN throws NPE during shutdown if it fails to startup (todd)

HDFS-2909. HA: Inaccessible shared edits dir not getting removed from FSImage

storage dirs upon error. (Bikas Saha via jitendra)

HDFS-2934. Allow configs to be scoped to all NNs in the nameservice. (todd)

HDFS-2935. Shared edits dir property should be suffixed with nameservice and

namenodeID (todd)

HDFS-2928. ConfiguredFailoverProxyProvider should not create a NameNode proxy

with an underlying retry proxy. (Uma Maheswara Rao G via atm)

HDFS-2955. IllegalStateException during standby startup in getCurSegmentTxId.

(Hari Mankude via atm)

HDFS-2937. TestDFSHAAdmin needs tests with MiniDFSCluster. (Brandon Li via

suresh)

HDFS-2586. Add protobuf service and implementation for HAServiceProtocol.

(suresh via atm)

HDFS-2952. NN should not start with upgrade option or with a pending an

unfinalized upgrade. (atm)

HDFS-2974. MiniDFSCluster does not delete standby NN name dirs during format.

(atm)

HDFS-2929. Stress test and fixes for block synchronization (todd)

HDFS-2972. Small optimization building incremental block report (todd)

HDFS-2973. Re-enable NO\_ACK optimization for block deletion. (todd)

HDFS-2922. HA: close out operation categories (eli)

HDFS-2993. HA: BackupNode#checkOperation should permit CHECKPOINT operations

(eli)

HDFS-2904. Client support for getting delegation tokens. (todd)

HDFS-3013. HA: NameNode format doesn't pick up

dfs.namenode.name.dir.NameServiceId configuration (Mingjie Lai via todd)

HDFS-3019. Fix silent failure of TestEditLogJournalFailures (todd)

HDFS-2958. Sweep for remaining proxy construction which doesn't go through

failover path. (atm)

HDFS-2920. fix remaining TODO items. (atm and todd)

HDFS-3027. Implement a simple NN health check. (atm)

HDFS-3023. Optimize entries in edits log for persistBlocks call. (todd)

HDFS-2979. Balancer should use logical uri for creating failover proxy with HA

enabled. (atm)

HDFS-3035. Fix failure of TestFileAppendRestart due to OP\_UPDATE\_BLOCKS (todd)

HDFS-3039. Address findbugs and javadoc warnings on branch. (todd via atm)

Release 0.23.10 - UNRELEASED

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HDFS-5010. Reduce the frequency of getCurrentUser() calls from namenode

(kihwal)

HDFS-5346. Avoid unnecessary call to getNumLiveDataNodes() for each block

during IBR processing (Ravi Prakash via kihwal)

OPTIMIZATIONS

BUG FIXES

HDFS-4998. TestUnderReplicatedBlocks fails intermittently (kihwal)

HDFS-4329. DFSShell issues with directories with spaces in name (Cristina

L. Abad via jeagles)

HDFS-5526. Datanode cannot roll back to previous layout version (kihwal)

HDFS-5557. Write pipeline recovery for the last packet in the block may

cause rejection of valid replicas. (kihwal)

HDFS-5558. LeaseManager monitor thread can crash if the last block is

complete but another block is not. (kihwal)

Release 0.23.9 - 2013-07-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HDFS-4867. metaSave NPEs when there are invalid blocks in repl queue.

(Plamen Jeliazkov and Ravi Prakash via shv)

HDFS-4862. SafeModeInfo.isManual() returns true when resources are low even

if it wasn't entered into manually (Ravi Prakash via kihwal)

HDFS-4832. Namenode doesn't change the number of missing blocks in

safemode when DNs rejoin or leave (Ravi Prakash via kihwal)

HDFS-4878. On Remove Block, block is not removed from neededReplications

queue. (Tao Luo via shv)

HDFS-4205. fsck fails with symlinks. (jlowe)

Release 0.23.8 - 2013-06-05

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HDFS-4714. Log short messages in Namenode RPC server for exceptions

meant for clients. (kihwal)

OPTIMIZATIONS

BUG FIXES

HDFS-4477. Secondary namenode may retain old tokens (daryn via kihwal)

HDFS-4699. TestPipelinesFailover#testPipelineRecoveryStress fails

sporadically (Chris Nauroth via kihwal)

HDFS-4805. Webhdfs client is fragile to token renewal errors

(daryn via kihwal)

HDFS-3875. Issue handling checksum errors in write pipeline. (kihwal)

HDFS-4807. createSocketForPipeline() should not include timeout extension

on connect. (Cristina L. Abad via kihwal)

Release 0.23.7 - 2013-04-08

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

HDFS-4532. RPC call queue may fill due to current user lookup (daryn)

BUG FIXES

HDFS-4288. NN accepts incremental BR as IBR in safemode (daryn via kihwal)

HDFS-4495. Allow client-side lease renewal to be retried beyond soft-limit

(kihwal)

HDFS-4128. 2NN gets stuck in inconsistent state if edit log replay fails

in the middle (kihwal via daryn)

HDFS-4542. Webhdfs doesn't support secure proxy users (Daryn Sharp via

kihwal)

HDFS-4560. Webhdfs cannot use tokens obtained by another user (daryn)

HDFS-4566. Webdhfs token cancelation should use authentication (daryn)

HDFS-4567. Webhdfs does not need a token for token operations (daryn via

kihwal)

HDFS-4577. Webhdfs operations should declare if authentication is required

(daryn via kihwal)

HDFS-3344. Unreliable corrupt blocks counting in TestProcessCorruptBlocks

(kihwal)

HDFS-3367. WebHDFS doesn't use the logged in user when opening

connections (daryn)

HDFS-4581. checkDiskError should not be called on network errors (Rohit

Kochar via kihwal)

HDFS-4649. Webhdfs cannot list large directories (daryn via kihwal)

HDFS-4548. Webhdfs doesn't renegotiate SPNEGO token (daryn via kihwal)

Release 0.23.6 - 2013-02-06

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HDFS-4247. saveNamespace should be tolerant of dangling lease (daryn)

HDFS-4248. Renaming directories may incorrectly remove the paths in leases

under the tree. (daryn via szetszwo)

HDFS-4385. Maven RAT plugin is not checking all source files (tgraves)

HDFS-4426. Secondary namenode shuts down immediately after startup.

(Arpit Agarwal via suresh)

Release 0.23.5 - 2012-11-28

INCOMPATIBLE CHANGES

HDFS-4080. Add a separate logger for block state change logs to enable turning

off those logs. (Kihwal Lee via suresh)

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

HDFS-4075. Reduce recommissioning overhead (Kihwal Lee via daryn)

HDFS-3990. NN's health report has severe performance problems (daryn)

HDFS-4181. LeaseManager tries to double remove and prints extra messages

(Kihwal Lee via daryn)

BUG FIXES

HDFS-3829. TestHftpURLTimeouts fails intermittently with JDK7 (Trevor

Robinson via tgraves)

HDFS-3824. TestHftpDelegationToken fails intermittently with JDK7 (Trevor

Robinson via tgraves)

HDFS-3224. Bug in check for DN re-registration with different storage ID

(jlowe)

HDFS-4090. getFileChecksum() result incompatible when called against

zero-byte files. (Kihwal Lee via daryn)

HDFS-4172. namenode does not URI-encode parameters when building URI for

datanode request (Derek Dagit via bobby)

HDFS-4182. SecondaryNameNode leaks NameCache entries (bobby)

HDFS-4186. logSync() is called with the write lock held while releasing

lease (Kihwal Lee via daryn)

Release 0.23.4

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

BUG FIXES

HDFS-3831. Failure to renew tokens due to test-sources left in classpath

(jlowe via bobby)

Release 0.23.3

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

HDFS-2505. Add a test to verify getFileChecksum(..) with ViewFS. (Ravi

Prakash via szetszwo)

OPTIMIZATIONS

BUG FIXES

HDFS-3166. Add timeout to Hftp connections. (Daryn Sharp via szetszwo)

HDFS-3176. Use MD5MD5CRC32FileChecksum.readFields() in JsonUtil . (Kihwal

Lee via szetszwo)

HDFS-2652. Add support for host-based delegation tokens. (Daryn Sharp via

szetszwo)

HDFS-3308. Uses canonical URI to select delegation tokens in HftpFileSystem

and WebHdfsFileSystem. (Daryn Sharp via szetszwo)

HDFS-3312. In HftpFileSystem, the namenode URI is non-secure but the

delegation tokens have to use secure URI. (Daryn Sharp via szetszwo)

HDFS-3318. Use BoundedInputStream in ByteRangeInputStream, otherwise, it

hangs on transfers >2 GB. (Daryn Sharp via szetszwo)

HDFS-3321. Fix safe mode turn off tip message. (Ravi Prakash via szetszwo)

HDFS-3334. Fix ByteRangeInputStream stream leakage. (Daryn Sharp via

szetszwo)

HDFS-3331. In namenode, check superuser privilege for setBalancerBandwidth

and acquire the write lock for finalizeUpgrade. (szetszwo)

HDFS-3037. TestMulitipleNNDataBlockScanner#testBlockScannerAfterRestart is

racy. (atm)

HDFS-3577. In DatanodeWebHdfsMethods, use MessageBodyWriter instead of

StreamingOutput, otherwise, it will fail to transfer large files.

(szetszwo)

HDFS-3646. LeaseRenewer can hold reference to inactive DFSClient

instances forever. (Kihwal Lee via daryn)

HDFS-3696. Set chunked streaming mode in WebHdfsFileSystem write operations

to get around a Java library bug causing OutOfMemoryError. (szetszwo)

HDFS-3553. Hftp proxy tokens are broken (daryn)

HDFS-3718. Datanode won't shutdown because of runaway DataBlockScanner

thread (Kihwal Lee via daryn)

HDFS-3861. Deadlock in DFSClient (Kihwal Lee via daryn)

HDFS-3873. Hftp assumes security is disabled if token fetch fails (daryn)

HDFS-3852. TestHftpDelegationToken is broken after HADOOP-8225 (daryn)

HDFS-3890. filecontext mkdirs doesn't apply umask as expected

(Tom Graves via daryn)

Release 0.23.2 - UNRELEASED

INCOMPATIBLE CHANGES

HDFS-2887. FSVolume, is a part of FSDatasetInterface implementation, should

not be referred outside FSDataset. A new FSVolumeInterface is defined.

The BlockVolumeChoosingPolicy.chooseVolume(..) method signature is also

updated. (szetszwo)

NEW FEATURES

HDFS-2943. Expose last checkpoint time and transaction stats as JMX

metrics. (atm)

IMPROVEMENTS

HDFS-2931. Switch DataNode's BlockVolumeChoosingPolicy to private-audience.

(harsh via szetszwo)

HDFS-2655. BlockReaderLocal#skip performs unnecessary IO. (Brandon Li

via jitendra)

HDFS-2725. hdfs script usage information is missing the information

about "dfs" command (Prashant Sharma via stevel)

HDFS-2907. Add a conf property dfs.datanode.fsdataset.factory to make

FSDataset in Datanode pluggable. (szetszwo)

HDFS-2985. Improve logging when replicas are marked as corrupt. (todd)

HDFS-3098. Update and add tests for HADOOP-8173. (Daryn Sharp via szetszwo)

HDFS-3104. Add tests for HADOOP-8175. (Daryn Sharp via szetszwo)

HDFS-3066. Cap space usage of default log4j rolling policy.

(Patrick Hunt via eli)

OPTIMIZATIONS

HDFS-3024. Improve performance of stringification in addStoredBlock (todd)

BUG FIXES

HDFS-2923. Namenode IPC handler count uses the wrong configuration key

(todd)

HDFS-2764. TestBackupNode is racy. (atm)

HDFS-2869. Fix an error in the webhdfs docs for the mkdir op (harsh)

HDFS-776. Fix exception handling in Balancer. (Uma Maheswara Rao G

via szetszwo)

HDFS-2815. Namenode sometimes oes not come out of safemode during

NN crash + restart. (Uma Maheswara Rao via suresh)

HDFS-2950. Secondary NN HTTPS address should be listed as a

NAMESERVICE\_SPECIFIC\_KEY. (todd)

HDFS-2525. Race between BlockPoolSliceScanner and append. (Brandon Li

via jitendra)

HDFS-2938. Recursive delete of a large directory make namenode

unresponsive. (Hari Mankude via suresh)

HDFS-2969. ExtendedBlock.equals is incorrectly implemented (todd)

HDFS-2944. Typo in hdfs-default.xml causes

dfs.client.block.write.replace-datanode-on-failure.enable to be mistakenly

disabled. (atm)

HDFS-2981. In hdfs-default.xml, the default value of

dfs.client.block.write.replace-datanode-on-failure.enable should be true.

(szetszwo)

HDFS-3008. Negative caching of local addrs doesn't work. (eli)

HDFS-3006. In WebHDFS, when the return body is empty, set the Content-Type

to application/octet-stream instead of application/json. (szetszwo)

HDFS-2991. Fix case where OP\_ADD would not be logged in append(). (todd)

HDFS-3012. Exception while renewing delegation token. (Bobby Evans via

jitendra)

HDFS-3032. Change DFSClient.renewLease() so that it only retries up to the

lease soft-limit. (Kihwal Lee via szetszwo)

HDFS-2038. Update TestHDFSCLI to handle relative paths with globs.

(Kihwal Lee via szetszwo)

HDFS-3101. Cannot read empty file using WebHDFS. (szetszwo)

HDFS-3160. httpfs should exec catalina instead of forking it.

(Roman Shaposhnik via eli)

Release 0.23.1 - 2012-02-17

INCOMPATIBLE CHANGES

NEW FEATURES

HDFS-2316. [umbrella] WebHDFS: a complete FileSystem implementation for

accessing HDFS over HTTP (szetszwo)

HDFS-2594. Support getDelegationTokens and createSymlink in WebHDFS.

(szetszwo)

HDFS-2545. Change WebHDFS to support multiple namenodes in federation.

(szetszwo)

HDFS-2178. Contributing Hoop to HDFS, replacement for HDFS proxy

with read/write capabilities. (tucu)

IMPROVEMENTS

HDFS-2560. Refactor BPOfferService to be a static inner class (todd)

HDFS-2544. Hadoop scripts unconditionally source

"$bin"/../libexec/hadoop-config.sh. (Bruno Mahé via tomwhite)

HDFS-2543. HADOOP\_PREFIX cannot be overridden. (Bruno Mahé via tomwhite)

HDFS-2562. Refactor DN configuration variables out of DataNode class

(todd)

HDFS-2563. Some cleanup in BPOfferService. (todd)

HDFS-2568. Use a set to manage child sockets in XceiverServer.

(harsh via eli)

HDFS-2454. Move maxXceiverCount check to before starting the

thread in dataXceiver. (harsh via eli)

HDFS-2570. Add descriptions for dfs.\*.https.address in hdfs-default.xml.

(eli)

HDFS-2536. Remove unused imports. (harsh via eli)

HDFS-2566. Move BPOfferService to be a non-inner class. (todd)

HDFS-2552. Add Forrest doc for WebHDFS REST API. (szetszwo)

HDFS-2587. Add apt doc for WebHDFS REST API. (szetszwo)

HDFS-2604. Add a log message to show if WebHDFS is enabled and a

configuration section in the forrest doc. (szetszwo)

HDFS-2511. Add dev script to generate HDFS protobufs. (tucu)

HDFS-2654. Make BlockReaderLocal not extend RemoteBlockReader2. (eli)

HDFS-2675. Reduce warning verbosity when double-closing edit logs

(todd)

HDFS-2335. DataNodeCluster and NNStorage always pull fresh entropy.

(Uma Maheswara Rao G via eli)

HDFS-2574. Remove references to some deprecated properties in conf

templates and defaults files. (Joe Crobak via harsh)

HDFS-2722. HttpFs should not be using an int for block size. (harsh)

HDFS-2710. Add HDFS tests related to HADOOP-7933. (Siddarth Seth via

suresh)

HDFS-2349. Corruption detected during block transfers between DNs

should log a WARN instead of INFO. (harsh)

HDFS-2729. Update BlockManager's comments regarding the invalid block

set (harsh)

HDFS-2726. Fix a logging issue under DFSClient's createBlockOutputStream

method (harsh)

HDFS-554. Use System.arraycopy in BlockInfo.ensureCapacity. (harsh)

HDFS-1314. Make dfs.blocksize accept size-indicating prefixes.

(Sho Shimauchi via harsh)

HDFS-69. Improve the 'dfsadmin' commandline help. (harsh)

HDFS-2788. HdfsServerConstants#DN\_KEEPALIVE\_TIMEOUT is dead code. (eli)

HDFS-362. FSEditLog should not writes long and short as UTF8, and should

not use ArrayWritable for writing non-array items. (Uma Maheswara Rao G

via szetszwo)

HDFS-2803. Add logging to LeaseRenewer for better lease expiration debugging.

(Jimmy Xiang via todd)

HDFS-2817. Combine the two TestSafeMode test suites. (todd)

HDFS-2818. Fix a missing space issue in HDFS webapps' title tags. (Devaraj K via harsh)

HDFS-2397. Undeprecate SecondaryNameNode. (eli)

HDFS-2814. NamenodeMXBean does not account for svn revision in the version

information. (Hitesh Shah via jitendra)

HDFS-2784. Update hftp and hdfs for host-based token support.

(Kihwal Lee via jitendra)

HDFS-2785. Update webhdfs and httpfs for host-based token support.

(Robert Joseph Evans via jitendra)

HDFS-2868. Expose xceiver counts via the DataNode MXBean. (harsh)

HDFS-2786. Fix host-based token incompatibilities in DFSUtil. (Kihwal

Lee via jitendra)

HDFS-208. name node should warn if only one dir is listed in dfs.name.dir.

(Uma Maheswara Rao G via eli)

HDFS-3139. Minor Datanode logging improvement. (eli)

OPTIMIZATIONS

HDFS-2130. Switch default checksum to CRC32C. (todd)

HDFS-2533. Remove needless synchronization on some FSDataSet methods.

(todd)

HDFS-2129. Simplify BlockReader to not inherit from FSInputChecker.

(todd)

HDFS-2246. Enable reading a block directly from local file system

for a client on the same node as the block file. (Andrew Purtell,

Suresh Srinivas and Jitendra Nath Pandey via szetszwo)

HDFS-2825. Add test hook to turn off the writer preferring its local

DN. (todd)

HDFS-2826. Add test case for HDFS-1476 (safemode can initialize

replication queues before exiting) (todd)

HDFS-2864. Remove some redundant methods and the constant METADATA\_VERSION

from FSDataset. (szetszwo)

HDFS-2879. Change FSDataset to package private. (szetszwo)

BUG FIXES

HDFS-2541. For a sufficiently large value of blocks, the DN Scanner

may request a random number with a negative seed value. (harsh via eli)

HDFS-2502. hdfs-default.xml should include dfs.name.dir.restore.

(harsh via eli)

HDFS-2567. When 0 DNs are available, show a proper error when

trying to browse DFS via web UI. (harsh via eli)

HDFS-2575. DFSTestUtil may create empty files (todd)

HDFS-2588. hdfs jsp pages missing DOCTYPE. (Dave Vronay via mattf)

HDFS-2590. Fix the missing links in the WebHDFS forrest doc. (szetszwo)

HDFS-2596. TestDirectoryScanner doesn't test parallel scans. (eli)

HDFS-2606. webhdfs client filesystem impl must set the content-type

header for create/append. (tucu)

HDFS-2614. hadoop dist tarball is missing hdfs headers. (tucu)

HDFS-2653. DFSClient should cache whether addrs are non-local when

short-circuiting is enabled. (eli)

HDFS-2649. eclipse:eclipse build fails for hadoop-hdfs-httpfs.

(Jason Lowe via eli)

HDFS-2640. Javadoc generation hangs. (tomwhite)

HDFS-2553. Fix BlockPoolSliceScanner spinning in a tight loop (Uma

Maheswara Rao G via todd)

HDFS-2658. HttpFS introduced 70 javadoc warnings. (tucu)

HDFS-2706. Use configuration for blockInvalidateLimit if it is set.

(szetszwo)

HDFS-2646. Hadoop HttpFS introduced 4 findbug warnings. (tucu)

HDFS-2657. TestHttpFSServer and TestServerWebApp are failing on trunk. (tucu)

HDFS-2705. HttpFS server should check that upload requests have correct

content-type. (tucu)

HDFS-2707. HttpFS should read the hadoop-auth secret from a file instead

inline from the configuration. (tucu)

HDFS-2790. FSNamesystem.setTimes throws exception with wrong

configuration name in the message. (Arpit Gupta via eli)

HDFS-2810. Leases not getting renewed properly by clients (todd)

HDFS-2751. Datanode may incorrectly drop OS cache behind reads

even for short reads. (todd)

HDFS-2816. Fix missing license header in httpfs findbugsExcludeFile.xml.

(hitesh via tucu)

HDFS-2822. processMisReplicatedBlock incorrectly identifies

under-construction blocks as under-replicated. (todd)

HDFS-442. dfsthroughput in test jar throws NPE (harsh)

HDFS-2836. HttpFSServer still has 2 javadoc warnings in trunk.

(revans2 via tucu)

HDFS-2837. mvn javadoc:javadoc not seeing LimitedPrivate class.

(revans2 via tucu)

HDFS-2840. TestHostnameFilter should work with localhost or

localhost.localdomain (tucu)

HDFS-2791. If block report races with closing of file, replica is

incorrectly marked corrupt. (todd)

HDFS-2827. When the parent of a directory is the root, renaming the

directory results in leases updated incorrectly. (Uma Maheswara Rao G

via szetszwo)

HDFS-2835. Fix findbugs and javadoc issue with GetConf.java.

(suresh)

HDFS-2889. getNumCurrentReplicas is package private but should be public on

0.23 (see HDFS-2408). (Gregory Chanan via atm)

HDFS-2893. The start/stop scripts don't start/stop the 2NN when

using the default configuration. (eli)

Release 0.23.0 - 2011-11-01

INCOMPATIBLE CHANGES

HDFS-1526. Dfs client name for a map/reduce task should be unique

among threads. (hairong)

HDFS-1536. Improve HDFS WebUI. (hairong)

HDFS-2210. Remove hdfsproxy. (eli)

HDFS-1073. Redesign the NameNode's storage layout for image checkpoints

and edit logs to introduce transaction IDs and be more robust.

Please see HDFS-1073 section below for breakout of individual patches.

NEW FEATURES

HDFS-1359. Add BlockPoolID to Block. (suresh)

HDFS-1365. Federation: propose ClusterID and BlockPoolID format

(Tanping via boryas)

HDFS-1394. Federation: modify -format option for namenode to generated

new blockpool id and accept newcluster (boryas)

HDFS-1400. Federation: DataTransferProtocol uses ExtendedBlockPool to

include BlockPoolID in the protocol. (suresh)

HDFS-1428. Federation : add cluster ID and block pool ID into

Name node web UI(Tanping via boryas)

HDFS-1450. Federation: Introduce block pool ID into FSDatasetInterface.

(suresh)

HDFS-1632. Federation: data node storage structure changes and

introduce block pool storage. (Tanping via suresh)

HDFS-1634. Federation: Convert single threaded DataNode into

per BlockPool thread model.(boryas)

HDFS-1637. Federation: FSDataset in Datanode should be created after

initial handshake with namenode. (boryas and jitendra)

HDFS-1653. Federation: Block received message from datanode sends invalid

DatanodeRegistration. (Tanping via suresh)

HDFS-1645. Federation: DatanodeCommond.Finalize needs to include

BlockPoolId. (suresh)

HDFS-1638. Federation: DataNode.handleDiskError needs to inform

ALL namenodes if a disk failed (boryas)

HDFS-1647. Federation: Multiple namenode configuration. (jitendra)

HDFS-1639. Federation: Add block pool management to FSDataset. (suresh)

HDFS-1648. Federation: Only DataStorage must be locked using in\_use.lock

and no locks must be associated with BlockPoolStorage. (Tanping via suresh)

HDFS-1641. Federation: Datanode fields that are no longer used should

be removed (boryas)

HDFS-1642. Federation: add Datanode.getDNRegistration(String bpid)

method (boryas)

HDFS-1643. Federation: remove namenode argument from DataNode

constructor (boryas)

HDFS-1657. Federation: Tests that corrupt block files fail due to changed

file path in federation. (suresh)

HDFS-1661. Federation: Remove unnecessary TODO:FEDERATION comments.

(jitendra)

HDFS-1660. Federation: Datanode doesn't start with two namenodes (boryas)

HDFS-1650. Federation: TestReplication fails. (Tanping via suresh)

HDFS-1651. Federation: Tests fail due to null pointer exception in

Datnode#shutdown() method. (Tanping via suresh)

HDFS-1649. Federation: Datanode command to refresh namenode list at

the datanode. (jitendra)

HDFS-1646. Federation: MiniDFSClsuter#waitActive() waits for ever

with the introduction of BPOfferService in datanode. (suresh)

HDFS-1659. Federation: BPOfferService exits after one iteration

incorrectly. (Tanping via suresh)

HDFS-1654. Federation: Fix TestDFSUpgrade and TestDFSRollback failures.

(suresh)

HDFS-1668. Federation: Datanodes sends block pool usage information

to the namenode in heartbeat. (suresh)

HDFS-1669. Federation: Fix TestHftpFileSystem failure. (suresh)

HDFS-1670. Federation: remove dnRegistration from Datanode (boryas)

HDFS-1662. Federation: fix unit test case, TestCheckpoint

and TestDataNodeMXBean (tanping via boryas)

HDFS-1671. Federation: shutdown in DataNode should be able to

shutdown individual BP threads as well as the whole DN (boryas).

HDFS-1663. Federation: Rename getPoolId() everywhere to

getBlockPoolId() (tanping via boryas)

HDFS-1652. FederationL Add support for multiple namenodes in

MiniDFSCluster. (suresh)

HDFS-1672. Federation: refactor stopDatanode(name) to work

with multiple Block Pools (boryas)

HDFS-1687. Federation: DirectoryScanner changes for

federation (Matt Foley via boryas)

HDFS-1626. Make BLOCK\_INVALIDATE\_LIMIT configurable. (szetszwo)

HDFS-1655. Federation: DatablockScanner should scan blocks for

all the block pools. (jitendra)

HDFS-1664. Federation: Add block pool storage usage to Namenode WebUI.

(Tanping via suresh)

HDFS-1674. Federation: Rename BlockPool class to BlockPoolSlice.

(jghoman, Tanping via suresh)

HDFS-1673. Federation: Datanode changes to track block token secret per

namenode. (suresh)

HDFS-1677. Federation: Fix TestFsck and TestListCorruptFileBlocks

failures. (Tanping via suresh)

HDFS-1678. Federation: Remove unnecessary #getBlockpool()

for NameNodeMXBean in FSNameSystem. (Tanping via Suresh)

HDFS-1688. Federation: Fix failures in fault injection tests,

TestDiskError, TestDatanodeRestart and TestDFSTartupVersions. (suresh)

HDFS-1696. Federation: when build version doesn't match -

datanode should wait (keep connecting) untill NN comes up

with the right version (boryas)

HDFS-1681. Balancer: support per pool and per node policies. (szetszwo)

HDFS-1695. Federation: Fix testOIV and TestDatanodeUtils

(jhoman and tanping via boryas)

HDFS-1699. Federation: Fix failure of TestBlockReport.

(Matt Foley via suresh)

HDFS-1698. Federation: TestOverReplicatedBlocks and TestWriteToReplica

failing. (jhoman and jitendra)

HDFS-1701. Federation: Fix TestHeartbeathandling.

(Erik Steffl and Tanping Wang via suresh)

HDFS-1693. Federation: Fix TestDFSStorageStateRecovery failure. (suresh)

HDFS-1694. Federation: SimulatedFSDataset changes to work with

federation and multiple block pools. (suresh)

HDFS-1689. Federation: Configuration for namenodes. (suresh and jitendra)

HDFS-1682. Change Balancer CLI for multiple namenodes and balancing

policy. (szetszwo)

HDFS-1697. Federation: fix TestBlockRecovery (boryas)

HDFS-1702. Federation: fix TestBackupNode and TestRefreshNamendoes

failures. (suresh)

HDFS-1706. Federation: TestFileAppend2, TestFileAppend3 and

TestBlockTokenWithDFS failing. (jitendra)

HDFS-1704. Federation: Add a tool that lists namenodes, secondary and

backup from configuration file. (suresh)

HDFS-1711. Federation: create method for updating machine name in

DataNode.java (boryas)

HDFS-1712. Federation: when looking up datanode we should use machineNmae

(in testOverReplicatedBlocks) (boryas)

HDFS-1709. Federation: Error "nnaddr url param is null" when clicking on a

node from NN Live Node Link. (jitendra)

HDFS-1714. Federation: refactor upgrade object in DataNode (boryas)

HDFS-1715. Federation: warning/error not generated when datanode sees

inconsistent/different Cluster ID between namenodes (boryas)

HDFS-1715. Federation: warning/error not generated when datanode sees

inconsistent/different Cluster ID between namenodes (boryas)

HDFS-1716. Federation: Add decommission tests for federated namenodes.

(suresh)

HDFS-1713. Federation: Prevent DataBlockScanner from running in tight loop.

(jitendra)

HDFS-1721. Federation: Configuration for principal names should not be

namenode specific. (jitendra)

HDFS-1717. Federation: FSDataset volumeMap access is not synchronized

correctly. (suresh)

HDFS-1722. Federation: Add flag to MiniDFSCluser to differentiate between

federation and non-federation modes. (boryas via suresh)

HDFS-1718. Federation: MiniDFSCluster#waitActive() bug causes some tests

to fail. (suresh)

HDFS-1719. Federation: Fix TestDFSRemove that fails intermittently.

(suresh)

HDFS-1720. Federation: FSVolumeSet volumes is not synchronized correctly.

(suresh)

HDFS-1700. Federation: fsck needs to work with federation changes.

(Matt Foley via suresh)

HDFS-1482. Add listCorruptFileBlocks to DistributedFileSystem.

(Patrick Kling via hairong)

HDFS-1448. Add a new tool Offline Edits Viewer (oev). (Erik Steffl

via szetszwo)

HDFS-1735. Federation: merge FSImage change in federation to

FSImage+NNStorage refactoring in trunk. (suresh)

HDFS-1737. Federation: Update the layout version for federation

changes. (suresh)

HDFS-1744. Federation: Add new layout version to offline image viewer

and edits viewer. (suresh)

HDFS-1745. Federation: Fix fault injection test failures. (suresh)

HDFS-1746. Federation: TestFileAppend3 fails intermittently. (jitendra)

HDFS-1703. Improve start/stop scripts and add decommission tool for

federation. (Tanping Wang, Erik Steffl via suresh)

HDFS-1749. Federation: TestListCorruptFileBlocks failing in federation

branch. (jitendra)

HDFS-1754. Federation: testFsck fails. (boryas)

HDFS-1755. Federation: The BPOfferService must always connect to namenode

as the login user. (jitendra)

HDFS-1675. Support transferring RBW between datanodes. (szetszwo)

HDFS-1791. Federation: Add command to delete block pool directories

from a datanode. (jitendra)

HDFS-1761. Add a new DataTransferProtocol operation, Op.TRANSFER\_BLOCK,

for transferring RBW/Finalized with acknowledgement and without using RPC.

(szetszwo)

HDFS-1813. Federation: Authentication using BlockToken in RPC to datanode

fails. (jitendra)

HDFS-1630. Support fsedits checksum. (hairong)

HDFS-1606. Provide a stronger data guarantee in the write pipeline by

adding a new datanode when an existing datanode failed. (szetszwo)

HDFS-1442. Api to get delegation token in Hdfs class. (jitendra)

HDFS-1070. Speedup namenode image loading and saving by storing only

local file names. (hairong)

HDFS-1751. Intrinsic limits for HDFS files, directories (daryn via boryas).

HDFS-1873. Federation: Add cluster management web console.

(Tanping Wang via suresh)

HDFS-1911 HDFS tests for the newly added viewfs

HDFS-1814. Add "hdfs groups" command to query the server-side groups

resolved for a user. (Aaron T. Myers via todd)

HDFS-1914. Federation: namenode storage directories must be configurable

specific to name service. (suresh)

HDFS-1963. Create RPM and Debian packages for HDFS. Changes deployment

layout to be consistent across the binary tgz, rpm, and deb.

(Eric Yang via omalley)

HDFS-2058. Change Data Transfer wire protocol to use protocol buffers.

(todd)

HDFS-2055. Add hflush support to libhdfs. (Travis Crawford via eli)

HDFS-2083. Query JMX statistics over http via JMXJsonServlet. (tanping)

HDFS-2156. Make hdfs and mapreduce rpm only depend on the same major

version for common and hdfs. (eyang via omalley)

HDFS-2202. Add a new DFSAdmin command to set balancer bandwidth of

datanodes without restarting. (Eric Payne via szetszwo)

HDFS-2284. Add a new FileSystem, webhdfs://, for supporting write Http

access to HDFS. (szetszwo)

HDFS-2317. Support read access to HDFS in WebHDFS. (szetszwo)

HDFS-2338. Add configuration option to enable/disable WebHDFS.

(jitendra via szetszwo)

HDFS-2318. Provide authentication to WebHDFS using SPNEGO and delegation

tokens. (szetszwo)

HDFS-2340. Support getFileBlockLocations and getDelegationToken in WebHDFS.

(szetszwo)

HDFS-2348. Support getContentSummary and getFileChecksum in WebHDFS.

(szetszwo)

HDFS-2385. Support renew and cancel delegation tokens in WebHDFS.

(szetszwo)

HDFS-2539. Support doAs and GETHOMEDIRECTORY in WebHDFS.

(szetszwo)

IMPROVEMENTS

HDFS-1875. MiniDFSCluster hard-codes dfs.datanode.address to localhost

(Eric Payne via mattf)

HDFS-2019. Fix all the places where Java method File.list is used with

FileUtil.list API (Bharath Mundlapudi via mattf)

HDFS-1934. Fix NullPointerException when certain File APIs return null

(Bharath Mundlapudi via mattf)

HDFS-1510. Added test-patch.properties required by test-patch.sh (nigel)

HDFS-1628. Display full path in AccessControlException. (John George

via szetszwo)

HDFS-1707. Federation: Failure in browsing data on new namenodes.

(jitendra)

HDFS-1683. Test Balancer with multiple NameNodes. (szetszwo)

HDFS-1547. Improve decommission mechanism. (suresh)

HDFS-2143. Federation: In cluster web console, add link to namenode page

that displays live and dead datanodes. (Ravi Prakash via suresh)

HDFS-1588. Remove hardcoded strings for configuration keys, "dfs.hosts"

and "dfs.hosts.exlude". (Erik Steffl via suresh)

HDFS-1481. NameNode should validate fsimage before rolling. (hairong)

HDFS-1506. Refactor fsimage loading code. (hairong)

HDFS-1533. A more elegant FileSystem#listCorruptFileBlocks API

(HDFS portion) (Patrick Kling via hairong)

HDFS-1476. listCorruptFileBlocks should be functional while the

name node is in safe mode. (Patrick Kling via hairong)

HDFS-1534. Fix some incorrect logs in FSDirectory. (eli)

HDFS-1539. A config option for the datanode to fsycn a block file

when block is completely written. (dhruba)

HDFS-1335. HDFS side change of HADDOP-6904: RPC compatibility. (hairong)

HDFS-1557. Separate Storage from FSImage. (Ivan Kelly via jitendra)

HDFS-560 Enhancements/tuning to hadoop-hdfs/build.xml

HDFS-1629. Add a method to BlockPlacementPolicy for keeping the chosen

nodes in the output array. (szetszwo)

HDFS-1731. Allow using a file to exclude certain tests from build (todd)

HDFS-1736. Remove the dependency from DatanodeJspHelper to FsShell.

(Daryn Sharp via szetszwo)

HDFS-780. Revive TestFuseDFS. (eli)

HDFS-1445. Batch the calls in DataStorage to FileUtil.createHardLink().

(Matt Foley via jghoman)

HDFS-1763. Replace hard-coded option strings with variables from

DFSConfigKeys. (eli)

HDFS-1541. Not marking datanodes dead when namenode in safemode.

(hairong)

HDFS-1120. Make DataNode's block-to-device placement policy pluggable

(Harsh J Chouraria via todd)

HDFS-1785. In BlockReceiver and DataXceiver, clientName.length() is used

multiple times for determining whether the source is a client or a

datanode. (szetszwo)

HDFS-1789. Refactor frequently used codes from DFSOutputStream and

DataXceiver. (szetszwo)

HDFS-1767. Namenode ignores non-initial block report from datanodes

when in safemode during startup. (Matt Foley via suresh)

HDFS-1817. Move pipeline\_Fi\_[39-51] from TestFiDataTransferProtocol

to TestFiPipelineClose. (szetszwo)

HDFS-1760. In FSDirectory.getFullPathName(..), it is better to return "/"

for root directory instead of an empty string. (Daryn Sharp via szetszwo)

HDFS-1833. Reduce repeated string constructions and unnecessary fields,

and fix comments in BlockReceiver.PacketResponder. (szetszwo)

HDFS-1486. Generalize CLITest structure and interfaces to faciliate

upstream adoption (e.g. for web testing). (cos)

HDFS-1844. Move "fs -help" shell command tests from HDFS to COMMOM; see

also HADOOP-7230. (Daryn Sharp via szetszwo)

HDFS-1840. In DFSClient, terminate the lease renewing thread when all files

being written are closed for a grace period, and start a new thread when

new files are opened for write. (szetszwo)

HDFS-1854. make failure message more useful in

DFSTestUtil.waitReplication(). (Matt Foley via eli)

HDFS-1562. Add rack policy tests. (eli)

HDFS-1856. TestDatanodeBlockScanner waits forever, errs without giving

information. (Matt Foley via eli)

HDFS-1295. Improve namenode restart times by short-circuiting the

first block reports from datanodes. (Matt Foley via suresh)

Corrected merge error in DataNode.java. (Matt Foley)

HDFS-1843. Discover file not found early for file append.

(Bharath Mundlapudi via jitendra)

HDFS-1862. Improve test reliability of HDFS-1594. (Aaron T. Myers via eli)

HDFS-1846. Preallocate edit log with OP\_INVALID instead of zero bytes

to ensure blocks are actually allocated. (Aaron T. Myers via todd)

HDFS-1741. Provide a minimal pom file to allow integration of HDFS into Sonar

analysis (cos)

HDFS-1870. Move and rename DFSClient.LeaseChecker to a seperated class

LeaseRenewer. (szetszwo)

HDFS-1866. Document dfs.datanode.max.transfer.threads in hdfs-default.xml

(Harsh J Chouraria via todd)

HDFS-1890. Improve the name, class and value type of the map

LeaseRenewer.pendingCreates. (szetszwo)

HDFS-1865. Share LeaseRenewer among DFSClients so that there is only a

LeaseRenewer thread per namenode per user. (szetszwo)

HDFS-1906. Remove logging exception stack trace in client logs when one of

the datanode targets to read from is not reachable. (suresh)

HDFS-1378. Edit log replay should track and report file offsets in case of

errors. (Aaron T. Myers and Todd Lipcon via todd)

HDFS-1917. Separate hdfs jars from common in ivy configuration. (Eric Yang

via szetszwo)

HDFS-1899. GenericTestUtils.formatNamenode should be moved to DFSTestUtil

(Ted Yu via todd)

HDFS-1117. Metrics 2.0 HDFS instrumentation. (Luke Lu via suresh)

HDFS-1946. HDFS part of HADOOP-7291. (eli)

HDFS-1945. Removed the deprecated fields in DataTransferProtocol.

(szetszwo)

HDFS-1730. Use DaemonFactory from common and delete it from HDFS.

(Tanping via suresh)

HDFS-1573. Add useful tracing information to Lease Renewer thread names

(todd)

HDFS-1939. In ivy.xml, test conf should not extend common conf.

(Eric Yang via szetszwo)

HDFS-1332 Include more information in exceptions and debug messages

when BlockPlacementPolicy cannot be satisfied. (Ted Yu via szetszwo)

HDFS-1958. Confirmation should be more lenient of user input when

formatting the NameNode. (todd)

HDFS-1905. Improve namenode -format command by not making -clusterId

parameter mandatory. (Bharath Mundlapudi via suresh)

HDFS-1877. Add a new test for concurrent read and write. (CW Chung

via szetszwo)

HDFS-1959. Better error message for missing namenode directory. (eli)

HDFS-1996. ivy: hdfs test jar should be independent to common test jar.

(Eric Yang via szetszwo)

HDFS-1812. TestHDFSCLI should clean up cluster in teardown method.

(Uma Maheswara Rao G via todd)

HDFS-1884. Improve TestDFSStorageStateRecovery to properly throw in the

case of errors. (Aaron T. Myers via todd)

HDFS-1727. fsck command should display command usage if user passes any

illegal argument. (Sravan Kumar via todd)

HDFS-1636. If dfs.name.dir points to an empty dir, namenode format

shouldn't require confirmation. (Harsh J Chouraria via todd)

HDFS-1966. Encapsulate individual DataTransferProtocol op headers.

(szetszwo)

HDFS-2024. Format TestWriteRead source codes. (CW Chung via szetszwo)

HDFS-1968. Enhance TestWriteRead to support position/sequential read,

append, truncate and verbose options. (CW Chung via szetszwo)

HDFS-1986. Add option to get http/https address from

DFSUtil#getInfoServer(). (Tanping via suresh)

HDFS-2029. In TestWriteRead, check visible length immediately after

openning the file and fix code style. (John George via szetszwo)

HDFS-2040. Only build libhdfs if a flag is passed. (eli)

HDFS-1586. Add InterfaceAudience and InterfaceStability annotations to

MiniDFSCluster. (suresh)

HDFS-2003. Separate FSEditLog reading logic from edit log memory state

building logic. (Ivan Kelly via todd)

HDFS-2066. Create a package and individual class files for

DataTransferProtocol. (szetszwo)

HADOOP-7106. Reorganize project SVN layout to "unsplit" the projects.

(todd, nigel)

HDFS-2046. Force entropy to come from non-true random for tests. (todd)

HDFS-2073. Add @Override annotation to NameNode. (suresh)

HDFS-420. Fuse-dfs should cache fs handles. (Brian Bockelman and eli)

HDFS-1568. Improve the log messages in DataXceiver. (Joey Echeverria via

szetszwo)

HDFS-2100. Improve TestStorageRestore. (atm)

HDFS-2092. Remove some object references to Configuration in DFSClient.

(Bharath Mundlapudi via szetszwo)

HDFS-2087. Declare methods in DataTransferProtocol interface, and change

Sender and Receiver to implement the interface. (szetszwo)

HDFS-1723. quota errors messages should use the same scale. (Jim Plush via

atm)

HDFS-2110. StreamFile and ByteRangeInputStream cleanup. (eli)

HDFS-2107. Move block management code from o.a.h.h.s.namenode to a new

package o.a.h.h.s.blockmanagement. (szetszwo)

HDFS-2109. Store uMask as member variable to DFSClient.Conf. (Bharath

Mundlapudi via szetszwo)

HDFS-2111. Add tests for ensuring that the DN will start with a few bad

data directories. (Harsh J Chouraria via todd)

HDFS-2134. Move DecommissionManager to the blockmanagement package.

(szetszwo)

HDFS-1977. Stop using StringUtils.stringifyException().

(Bharath Mundlapudi via jitendra)

HDFS-2131. Add new tests for the -overwrite/-f option in put and

copyFromLocal by HADOOP-7361. (Uma Maheswara Rao G via szetszwo)

HDFS-2140. Move Host2NodesMap to the blockmanagement package. (szetszwo)

HDFS-2154. In TestDFSShell, use TEST\_ROOT\_DIR and fix some deprecated

warnings. (szetszwo)

HDFS-2153. Move DFSClientAdapter to test and fix some javac warnings in

OfflineEditsViewerHelper. (szetszwo)

HDFS-2159. Deprecate DistributedFileSystem.getClient() and fixed the

deprecated warnings in DFSAdmin. (szetszwo)

HDFS-2157. Improve header comment in o.a.h.hdfs.server.namenode.NameNode.

(atm via eli)

HDFS-2147. Move cluster network topology to block management and fix some

javac warnings. (szetszwo)

HDFS-2141. Remove NameNode roles Active and Standby (they become

states of the namenode). (suresh)

HDFS-2161. Move createNamenode(..), createClientDatanodeProtocolProxy(..)

and Random object creation to DFSUtil; move DFSClient.stringifyToken(..)

to DelegationTokenIdentifier. (szetszwo)

HDFS-1774. Small optimization to FSDataset. (Uma Maheswara Rao G via eli)

HDFS-2167. Move dnsToSwitchMapping and hostsReader from FSNamesystem to

DatanodeManager. (szetszwo)

HDFS-2116. Use Mokito in TestStreamFile and TestByteRangeInputStream.

(Plamen Jeliazkov via shv)

HDFS-2112. Move ReplicationMonitor to block management. (Uma Maheswara

Rao G via szetszwo)

HDFS-1739. Add available volume size to the error message when datanode

throws DiskOutOfSpaceException. (Uma Maheswara Rao G via szetszwo)

HDFS-2144. If SNN shuts down during initialization it does not log the

cause. (Ravi Prakash via atm)

HDFS-2180. Refactor NameNode HTTP server into new class. (todd)

HDFS-2198. Remove hardcoded configuration keys. (suresh)

HDFS-2149. Move EditLogOp serialization formats into FsEditLogOp

implementations. (Ivan Kelly via todd)

HDFS-2191. Move datanodeMap from FSNamesystem to DatanodeManager.

(szetszwo)

HDFS-2200. Change FSNamesystem.LOG to package private. (szetszwo)

HDFS-2195. Refactor StorageDirectory to not be an non-static inner class.

(todd via eli)

HDFS-2212. Refactor double-buffering code out of EditLogOutputStreams.

(todd via eli)

HDFS-2199. Move blockTokenSecretManager from FSNamesystem to BlockManager.

(Uma Maheswara Rao G via szetszwo)

HDFS-2187. Make EditLogInputStream act like an iterator over FSEditLogOps

(Ivan Kelly and todd via todd)

HDFS-2225. Refactor edit log file management so it's not in classes

which should be generic to the type of edit log storage. (Ivan Kelly

via todd)

HDFS-2108. Move datanode heartbeat handling from namenode package to

blockmanagement package. (szetszwo)

HDFS-2226. Clean up counting of operations in FSEditLogLoader (todd)

HDFS-2228. Move block and datanode code from FSNamesystem to

BlockManager and DatanodeManager. (szetszwo)

HDFS-2238. In NamenodeFsck.toString(), uses StringBuilder.(..) instead of

string concatenation. (Uma Maheswara Rao G via szetszwo)

HDFS-2230. ivy to resolve/retrieve latest common-tests jar published by

hadoop common maven build. (gkesavan)

HDFS-2227. getRemoteEditLogManifest should pull its information from

FileJournalManager during checkpoint process (Ivan Kelly and Todd Lipcon

via todd)

HDFS-2239. Reduce access levels of the fields and methods in FSNamesystem.

(szetszwo)

HDFS-2241. Remove implementing FSConstants interface to just get the

constants from the interface. (suresh)

HDFS-2237. Change UnderReplicatedBlocks from public to package private.

(szetszwo)

HDFS-2233. Add WebUI tests with URI reserved chars. (eli)

HDFS-2265. Remove unnecessary BlockTokenSecretManager fields/methods from

BlockManager. (szetszwo)

HDFS-2260. Refactor BlockReader into an interface and implementation.

(todd)

HDFS-2096. Mavenization of hadoop-hdfs (Alejandro Abdelnur via tomwhite)

HDFS-2273. Refactor BlockManager.recentInvalidateSets to a new class.

(szetszwo)

HDFS-2266. Add Namesystem and SafeMode interfaces to avoid directly

referring to FSNamesystem in BlockManager. (szetszwo)

HDFS-1217. Change some NameNode methods from public to package private.

(Laxman via szetszwo)

HDFS-1620. Rename HdfsConstants -> HdfsServerConstants, FSConstants ->

HdfsConstants. (Harsh J Chouraria via atm)

HDFS-2197. Refactor RPC call implementations out of NameNode class (todd)

HDFS-2332. Add test for HADOOP-7629 (using an immutable FsPermission

object as an RPC parameter fails). (todd)

HDFS-2363. Move datanodes size printing from FSNamesystem.metasave(..)

to BlockManager. (Uma Maheswara Rao G via szetszwo)

HDFS-2209. Make MiniDFS easier to embed in other apps. (stevel)

HDFS-2205. Log message for failed connection to datanode is not

followed by a success message. (Ravi Prakash via stevel)

HDFS-2401. Running a set of methods in a Single Test Class.

(Jonathan Eagles via mahadev)

HDFS-2471. Add federation documentation. (suresh)

HDFS-2485. Improve code layout and constants in UnderReplicatedBlocks

(stevel)

HDFS-2356. Support case insensitive query parameter names in WebHDFS.

(szetszwo)

HDFS-2368. Move SPNEGO conf properties from hdfs-default.xml to

hdfs-site.xml. (szetszwo)

HDFS-2395. Add a root element in the JSON responses of WebHDFS.

(szetszwo)

HDFS-2427. Change the default permission in WebHDFS to 755 and add range

check/validation for all parameters. (szetszwo)

HDFS-2501. Add version prefix and root methods to WebHDFS. (szetszwo)

HDFS-1869. mkdirs should use the supplied permission for all of the created

directories. (Daryn Sharp via szetszwo)

HDFS-2355. Federation: enable using the same configuration file across

all the nodes in the cluster. (suresh)

HDFS-2371. Refactor BlockSender.java for better readability. (suresh)

HDFS-2493. Remove reference to FSNamesystem in blockmanagement classes.

(szetszwo)

HDFS-2294. Download of commons-daemon TAR should not be under target (tucu)

HDFS-2322. the build fails in Windows because commons-daemon TAR cannot be

fetched. (tucu)

HDFS-2436. Change FSNamesystem.setTimes(..) for allowing setting times on

directories. (Uma Maheswara Rao G via szetszwo)

HDFS-2512. Add textual error message to data transfer protocol responses

(todd)

HDFS-2521. Remove custom checksum headers from data transfer protocol

(todd)

HDFS-2308. NamenodeProtocol.endCheckpoint is vestigial and can be removed.

(eli)

HDFS-2507. Allow saveNamespace operations to be canceled. (todd)

OPTIMIZATIONS

HDFS-1458. Improve checkpoint performance by avoiding unnecessary image

downloads and loading. (hairong)

HDFS-1601. Pipeline ACKs are sent as lots of tiny TCP packets (todd)

HDFS-1826. NameNode should save image to name directories in parallel

during upgrade. (Matt Foley via hairong)

HDFS-2030. Improve usability of namenode -upgrade command.

(Bharath Mundlapudi via suresh)

HDFS-2056. Update fetchdt usage. (Tanping Wang via jitendra)

HDFS-2118. Couple dfs data dir improvements. (eli)

HDFS-2500. Avoid file system operations in BPOfferService thread while

processing deletes. (todd)

HDFS-2465. Add HDFS support for fadvise readahead and drop-behind. (todd)

BUG FIXES

HDFS-2344. Fix the TestOfflineEditsViewer test failure in 0.23 branch.

(Uma Maheswara Rao G via mattf)

HDFS-2347. Fix checkpointTxnCount's comment about editlog size.

(Uma Maheswara Rao G via mattf)

HDFS-2011. Removal and restoration of storage directories on checkpointing

failure doesn't work properly. (Ravi Prakash via mattf)

HDFS-1955. FSImage.doUpgrade() was made too fault-tolerant by HDFS-1826.

(mattf)

HDFS-2061. Two minor bugs in BlockManager block report processing. (mattf)

HDFS-1449. Fix test failures - ExtendedBlock must return

block file name in #getBlockName(). (suresh)

HDFS-1680. Fix TestBalancer. (szetszwo)

HDFS-1705. Balancer command throws NullPointerException. (suresh via

szetszwo)

HDFS-1559. Add missing UGM overrides to TestRefreshUserMappings

(Todd Lipcon via eli)

HDFS-1585. Fix build after HDFS-1547 (todd)

HDFS-1684. Balancer cannot start with with multiple namenodes. (szetszwo)

HDFS-1516. mvn-install is broken after 0.22 branch creation. (cos)

HDFS-1360. TestBlockRecovery should bind ephemeral ports.

(Todd Lipcon via hairong)

HDFS-1551. Fix pom templates dependency list (gkesavan)

HDFS-1509. A savenamespace command writes the fsimage and edits into

all configured directories. (dhruba)

HDFS-1540. Make Datanode handle errors from RPC calls to namenode

more elegantly. (dhruba)

HDFS-1463. Accesstime of a file is not updated in safeMode. (dhruba)

HDFS-863. Potential deadlock in TestOverReplicatedBlocks.

(Ken Goodhope via jghoman)

HDFS-1607. Fix referenced to misspelled method name getProtocolSigature

(todd)

HDFS-1610. Fix TestClientProtocolWithDelegationToken and TestBlockToken

on trunk after HADOOP-6904 (todd)

HDFS-1600. Fix release audit warnings on trunk. (todd)

HDFS-1691. Remove a duplicated static initializer for reading default

configurations in DFSck. (Alexey Diomin via szetszwo)

HDFS-1748. Balancer utilization classification is incomplete. (szetszwo)

HDFS-1738. change hdfs jmxget to return an empty string instead of

null when an attribute value is not available (tanping vi boryas)

HDFS-1757. Don't compile fuse-dfs by default. (eli)

HDFS-1770. TestFiRename fails due to invalid block size. (eli)

HDFS-1797. Fix new findbugs warning introduced by HDFS-1120 (todd)

HDFS-1611. Fix up some log messages in DFSClient and MBean registration

(Uma Maheswara Rao G via todd)

HDFS-1543. Reduce dev. cycle time by moving system testing artifacts from

default build and push to maven for HDFS (Luke Lu via cos)

HDFS-1818. TestHDFSCLI is failing on trunk after HADOOP-7202.

(Aaron T. Myers via todd)

HDFS-1828. TestBlocksWithNotEnoughRacks intermittently fails assert.

(Matt Foley via eli)

HDFS-1824. delay instantiation of file system object until it is

needed (linked to HADOOP-7207) (boryas)

HDFS-1831. Fix append bug in FileContext and implement CreateFlag

check (related to HADOOP-7223). (suresh)

HDFS-1594. When the disk becomes full Namenode is getting shutdown and

not able to recover. (Aaron T. Myers via eli)

HDFS-1822. Handle editlog opcode conflict with 0.20.203 during upgrade,

by throwing an error to indicate the editlog needs to be empty.

(suresh)

HDFS-1808. TestBalancer waits forever, errs without giving information.

(Matt Foley via eli)

HDFS-1829. TestNodeCount waits forever, errs without giving information.

(Matt Foley via eli)

HDFS-1860. when renewing/canceling DelegationToken over http we need to

pass exception information back to the caller.(boryas)

HDFS-1871. Mapreduce build fails due to MiniDFSCluster change from

HDFS-1052. (suresh)

HDFS-1876. One MiniDFSCluster constructor ignores numDataNodes parameter

(todd)

HDFS-1773. Do not show decommissioned datanodes, which are not in both

include and exclude lists, on web and JMX interfaces.

(Tanping Wang via szetszwo)

HDFS-1888. MiniDFSCluster#corruptBlockOnDatanodes() access must be

public. (suresh)

HDFS-1889. incorrect path in start/stop dfs script. (John George via eli)

HDFS-1891. Disable IPV6 for junit tests to fix TestBackupNode failure.

(suresh)

HDFS-1898. Tests failing on trunk due to use of NameNode.format.

(todd via eli)

HDFS-1902. Fix setrep path display for TestHDFSCLI. (Daryn Sharp

via szetszwo)

HDFS-1827. Fix timeout problem in TestBlockReplacement. (Matt Foley

via szetszwo)

HDFS-1908. Fix a NullPointerException in fi.DataTransferTestUtil.

(szetszwo)

HDFS-1912. Update tests for FsShell standardized error messages.

(Daryn Sharp via szetszwo)

HDFS-1903. Fix path display for rm/rmr in TestHDFSCLI and TestDFSShell.

(Daryn Sharp via szetszwo)

HDFS-1627. Fix NullPointerException in Secondary NameNode. (hairong)

HDFS-1928. Fix path display for touchz in TestHDFSCLI.

(Daryn Sharp via todd)

HDFS-1938. Fix ivy-retrieve-hdfs dependence in build.xml and aop.xml.

(Eric Yang via szetszwo)

HDFS-1929. TestEditLogFileOutputStream fails if running on same host as NN

(Aaron T. Myers via todd)

HDFS-1933. Update TestDFSShell for improved "test" shell command. (Daryn

Sharp via todd)

HDFS-1931. Update TestDFSShell for improved "du" shell command. (Daryn

Sharp via todd)

HDFS-1439. HDFS Federation: Fix compilation error in TestFiHftp. (suresh)

HDFS-1881. Federation: after taking snapshot the current directory

of datanode is empty. (Tanping Wang via suresh)

HDFS-1927. Fix a bug which causes ip=null in NameNode audit log.

(John George via szetszwo)

HDFS-1953. Federation: Change name node mxbean name in cluster web

console. (Tanping Wang via suresh)

HDFS-1922. Fix recurring failure of TestJMXGet (Luke Lu via todd)

HDFS-1371. One bad node can incorrectly flag many files as corrupt.

(Tanping Wang via jitendra)

HDFS-1943. Fail to start datanode while start-dfs.sh is executed by

root user. (Wei Yongjun via jghoman)

HDFS-1983. Fix path display for copy and rm commands in TestHDFSCLI and

TestDFSShell. (Daryn Sharp via todd)

HDFS-1999. Tests use deprecated configs. (Aaron T. Myers via eli)

HDFS-1592. Datanode startup doesn't honor volumes.tolerated.

(Bharath Mundlapudi via jitendra)

HDFS-1920. libhdfs does not build for ARM processors.

(Trevor Robinson via eli)

HDFS-1936. Layout version change from HDFS-1822 causes upgrade failure.

(suresh)

HDFS-2021. Update numBytesAcked before sending the ack in PacketResponder.

(John George via szetszwo)

HDFS-2020. Fix TestDFSUpgradeFromImage by removing the use of DataNode

as a singleton. (suresh via todd)

HDFS-2022. ant binary should build libhdfs. (Eric Yang via eli)

HDFS-2014. Change HDFS scripts to work in developer enviroment post

RPM packaging changes. (Eric Yang via suresh)

HDFS-1995. Federation: Minor bug fixes and modification cluster web UI.

(Tanping Wang via suresh)

HDFS-1907. Fix position read for reading still-being-written file in

DFSInputStream. (John George via szetszwo)

HDFS-1923. In TestFiDataTransferProtocol2, reduce random sleep time period

and increase the number of datanodes. (szetszwo)

HDFS-1149. Lease reassignment should be persisted to the edit log.

(Aaron T. Myers via todd)

HDFS-1998. Federation: Make refresh-namenodes.sh refresh all the

namenode. (Tanping Wang via suresh)

HDFS-2041. OP\_CONCAT\_DELETE doesn't properly restore modification time

of the concatenated file when edit logs are replayed. (todd)

HDFS-2063. libhdfs test is broken. (Eric Yang via eli)

HDFS-2067. Bump DATA\_TRANSFER\_VERSION constant in trunk after introduction

of protocol buffers in the protocol. (szetszwo via todd)

HDFS-2069. Incorrect default trash interval value in the docs.

(Harsh J Chouraria via eli)

HDFS-1942. Datanode must exist when all the block pool service threads

exit. (Bharath Mundlapudi via suresh)

HDFS-1656. Fixes an issue to do with fetching of delegation tokens in

HftpFileSystem. Contributed by Kan Zhang.

HDFS-1692. In secure mode, Datanode process doesn't exit when disks

fail. (Bharath Mundlapudi via suresh)

HDFS-1734. 'Chunk size to view' option is not working in Name Node UI.

(Uma Maheswara Rao G via jitendra)

HDFS-2086. If the include hosts list contains host names, after restarting

namenode, data nodes registration is denied. Contributed by Tanping Wang.

HDFS-2082. SecondaryNameNode web interface doesn't show the right info. (atm)

HDFS-1321. If service port and main port are the same, there is no clear

log message explaining the issue. (Jim Plush via atm)

HDFS-1381. HDFS javadocs hard-code references to dfs.namenode.name.dir and

dfs.datanode.data.dir parameters (Jim Plush via atm)

HDFS-2053. Bug in INodeDirectory#computeContentSummary warning.

(Michael Noll via eli)

HDFS-1990. Fix resource leaks in BlockReceiver.close(). (Uma Maheswara

Rao G via szetszwo)

HDFS-2034. Length in DFSInputStream.getBlockRange(..) becomes -ve when

reading only from a currently being written block. (John George via

szetszwo)

HDFS-2132. Potential resource leak in EditLogFileOutputStream.close. (atm)

HDFS-2120. on reconnect, DN can connect to NN even with different source

versions. (John George via atm)

HDFS-2152. TestWriteConfigurationToDFS causing the random failures. (Uma

Maheswara Rao G via atm)

HDFS-2114. re-commission of a decommissioned node does not delete

excess replicas. (John George via mattf)

HDFS-1776. Bug in Concat code. (Bharath Mundlapudi via Dmytro Molkov)

HDFS-2196. Make ant build system work with hadoop-common JAR generated

by Maven. (Alejandro Abdelnur via tomwhite)

HDFS-2245. Fix a NullPointerException in BlockManager.chooseTarget(..).

(szetszwo)

HDFS-2229. Fix a deadlock in namenode by enforcing lock acquisition

ordering. (szetszwo)

HDFS-2235. Encode servlet paths. (eli)

HDFS-2186. DN volume failures on startup are not counted. (eli)

HDFS-2240. Fix a deadlock in LeaseRenewer by enforcing lock acquisition

ordering. (szetszwo)

HDFS-73. DFSOutputStream does not close all the sockets.

(Uma Maheswara Rao G via eli)

HDFS-1257. Fix a race condition on BlockManager.recentInvalidateSets.

(Eric Payne via szetszwo)

HDFS-2267. DataXceiver thread name incorrect while waiting on op during

keepalive. (todd)

HDFS-1480. All replicas of a block can end up on the same rack when

some datanodes are decommissioning. (todd)

HDFS-2286. DataXceiverServer logs AsynchronousCloseException at shutdown

(todd)

HDFS-2289. Ensure jsvc is bundled with the HDFS distribution artifact.

(Alejandro Abdelnur via acmurthy)

HDFS-2314. MRV1 test compilation broken after HDFS-2197 (todd)

HDFS-2323. start-dfs.sh script fails for tarball install (tomwhite)

HDFS-2346. TestHost2NodesMap & TestReplicasMap will fail depending upon

execution order of test methods (Laxman via atm)

HDFS-2345. TestLeaseRecovery2 fails on 0.23 branch (Uma Maheswara Rao G

via atm)

HDFS-2412. Add backwards-compatibility layer for renamed FSConstants

class (todd)

HDFS-2414. Fix TestDFSRollback to avoid spurious failures. (todd)

HDFS-2422. The NN should tolerate the same number of low-resource volumes

as failed volumes (atm)

HDFS-2467. HftpFileSystem uses incorrect compare for finding delegation

tokens. (omalley)

HDFS-2331. Fix WebHdfsFileSystem compilation problems for a bug in JDK

version < 1.6.0\_26. (Abhijit Suresh Shingate via szetszwo)

HDFS-2333. Change DFSOutputStream back to package private, otherwise,

there are two SC\_START\_IN\_CTOR findbugs warnings. (szetszwo)

HDFS-2366. Initialize WebHdfsFileSystem.ugi in object construction.

(szetszwo)

HDFS-2361. hftp is broken, fixed username checks in JspHelper. (jitendra)

HDFS-2403. NamenodeWebHdfsMethods.generateDelegationToken(..) does not use

the renewer parameter. (szetszwo)

HDFS-2409. \_HOST in dfs.web.authentication.kerberos.principal. (jitendra)

HDFS-2404. WebHDFS liststatus json response is not correct. (suresh)

HDFS-2441. Remove the Content-Type set by HttpServer.QuotingInputFilter in

WebHDFS responses. (szetszwo)

HDFS-2428. Convert com.sun.jersey.api.ParamException$QueryParamException

to IllegalArgumentException and response it as http BAD\_REQUEST in WebHDFS.

(szetszwo)

HDFS-2424. Added a root element "HdfsFileStatuses" for the response

of WebHDFS listStatus. (szetszwo)

MAPREDUCE-2764. Fix renewal of dfs delegation tokens. (Owen via jitendra)

HDFS-2439. Fix NullPointerException in WebHDFS when opening a non-existing

file or creating a file without specifying the replication parameter.

(szetszwo)

HDFS-2453. Fix http response code for partial content in WebHDFS, added

getDefaultBlockSize() and getDefaultReplication() in WebHdfsFileSystem

and cleared content type in ExceptionHandler. (szetszwo)

HDFS-2411. The the auth to local mappings are not being respected, with

WebHDFS enabled. (jitendra)

HDFS-2494. Close the streams and DFSClient in DatanodeWebHdfsMethods.

(Uma Maheswara Rao G via szetszwo)

HDFS-2298. Fix TestDfsOverAvroRpc by changing ClientProtocol to

not include multiple methods of the same name. (cutting)

HDFS-2432. WebHDFS: response FORBIDDEN when setReplication on non-files;

clear umask before creating a flie; throw IllegalArgumentException if

setOwner with both owner and group empty; throw FileNotFoundException if

getFileStatus on non-existing files; fix bugs in getBlockLocations; and

changed getFileChecksum json response root to "FileChecksum". (szetszwo)

HDFS-2065. Add null checks in DFSClient.getFileChecksum(..). (Uma

Maheswara Rao G via szetszwo)

HDFS-2522. Disable TestDfsOverAvroRpc test. (suresh)

HDFS-2416. distcp with a WebHDFS uri on a secure cluster fails. (jitendra)

HDFS-2527. WebHDFS: remove the use of "Range" header in Open; use ugi

username if renewer parameter is null in GetDelegationToken; response OK

when setting replication for non-files; rename GETFILEBLOCKLOCATIONS to

GET\_BLOCK\_LOCATIONS and state that it is a private unstable API; replace

isDirectory and isSymlink with enum {FILE, DIRECTORY, SYMLINK} in

HdfsFileStatus JSON object. (szetszwo)

HDFS-2528. WebHDFS: set delegation kind to WEBHDFS and add a HDFS token

when http requests are redirected to datanode. (szetszwo)

HDFS-2540. WebHDFS: change "Expect: 100-continue" to two-step write; change

"HdfsFileStatus" and "localName" respectively to "FileStatus" and

"pathSuffix" in JSON response. (szetszwo)

BREAKDOWN OF HDFS-1073 SUBTASKS

HDFS-1521. Persist transaction ID on disk between NN restarts.

(Ivan Kelly and Todd Lipcon via todd)

HDFS-1538. Refactor more startup and image loading code out of FSImage.

(todd)

HDFS-1729. Add code to detect valid length of an edits file. (todd)

HDFS-1793. Add code to inspect a storage directory with txid-based

filenames (todd)

HDFS-1794. Add code to list which edit logs are available on a remote NN

(todd)

HDFS-1858. Add state management variables to FSEditLog (Ivan Kelly and Todd

Lipcon via todd)

HDFS-1859. Add some convenience functions to iterate over edit log streams

(Ivan Kelly and Todd Lipcon via todd)

HDFS-1894. Add constants for LAYOUT\_VERSIONs in edits log branch (todd)

HDFS-1892. Fix EditLogFileInputStream.getValidLength to be aware of

OP\_INVALID filler (todd)

HDFS-1799. Refactor log rolling and filename management out of FSEditLog

(Ivan Kelly and Todd Lipcon via todd)

HDFS-1801. Remove use of timestamps to identify checkpoints and logs (todd)

HDFS-1930. TestDFSUpgrade failing in HDFS-1073 branch (todd)

HDFS-1800. Extend image checksumming to function with multiple fsimage

files per directory. (todd)

HDFS-1725. Set storage directories only at FSImage construction (Ivan Kelly

via todd)

HDFS-1926. Remove references to StorageDirectory from JournalManager

interface (Ivan Kelly via todd)

HDFS-1893. Change edit logs and images to be named based on txid (todd)

HDFS-1985. Clean up image transfer servlet (todd)

HDFS-1984. Enable multiple secondary namenodes to run simultaneously (todd)

HDFS-1987. Re-enable TestCheckpoint.testSecondaryImageDownload which was

not running previously. (todd)

HDFS-1993. TestCheckpoint needs to clean up between cases (todd)

HDFS-1992. Remove vestiges of NNStorageListener. (todd)

HDFS-1991. Some refactoring of Secondary NameNode to be able to share more

code with the BackupNode or CheckpointNode. (todd)

HDFS-1994. Fix race conditions when running two rapidly checkpointing

Secondary NameNodes. (todd)

HDFS-2001. Remove use of previous.checkpoint and lastcheckpoint.tmp

directories (todd)

HDFS-2015. Remove checkpointTxId from VERSION file. (todd)

HDFS-2016. Add infrastructure to remove or archive old and unneeded storage

files within the name directories. (todd)

HDFS-2047. Improve TestNamespace and TestEditLog in HDFS-1073 branch.

(todd)

HDFS-2048. Add upgrade tests and fix upgrade from 0.22 with corrupt image.

(todd)

HDFS-2027. Image inspector should return finalized logs before unfinalized

logs. (todd)

HDFS-2074. Determine edit log validity by truly reading and validating

transactions. (todd)

HDFS-2085. Finalize in-progress edit logs at startup. (todd)

HDFS-2026. SecondaryNameNode should properly handle the case where the

NameNode is reformatted. (todd)

HDFS-2077. Address checkpoint upload when one of the storage dirs is failed

(todd)

HDFS-2078. NameNode should not clear directory when restoring removed

storage. (todd)

HDFS-2088. Move edits log archiving logic into FSEditLog/JournalManager

(todd)

HDFS-2093. Handle case where an entirely empty log is left during NN crash

(todd)

HDFS-2102. Zero-pad edits filename to make them lexically sortable. (Ivan

Kelly via todd)

HDFS-2010. Fix NameNode to exit if all edit streams become inaccessible.

(atm via todd)

HDFS-2123. Checkpoint interval should be based on txn count, not size.

(todd)

HDFS-1979. Fix backupnode for new edits/image layout. (todd)

HDFS-2101. Fix remaining unit tests for new storage filenames. (todd)

HDFS-2133. Address remaining TODOs and pre-merge cleanup on HDFS-1073

branch. (todd)

HDFS-1780. Reduce need to rewrite FSImage on startup. (todd)

HDFS-2104. Add a flag to the 2NN to format its checkpoint dirs on startup.

(todd)

HDFS-2135. Fix regression of HDFS-1955 in HDFS-1073 branch. (todd)

HDFS-2160. Fix CreateEditsLog test tool in HDFS-1073 branch. (todd)

HDFS-2168. Reenable TestEditLog.testFailedOpen and fix exposed bug. (todd)

HDFS-2169. Clean up TestCheckpoint and remove TODOs (todd)

HDFS-2170. Address remaining TODOs in HDFS-1073 branch. (todd)

HDFS-2172. Address findbugs and javadoc warnings in HDFS-1073 branch.

(todd)

HDFS-2445. Ensure failed tests exit with proper error code. (Jonathan

Eagles via acmurthy)

Release 0.22.1 - Unreleased

INCOMPATIBLE CHANGES

NEW FEATURES

IMPROVEMENTS

OPTIMIZATIONS

HDFS-2718. Optimize OP\_ADD in edits loading. (shv)

HDFS-2886. CreateEditLogs should generate a realistic edit log. (shv)

BUG FIXES

HDFS-2877. If locking of a storage dir fails, it will remove the other

NN's lock file on exit. (todd)

Release 0.22.0 - 2011-11-29

INCOMPATIBLE CHANGES

HDFS-1825. Remove thriftfs contrib. (nigel via eli)

NEW FEATURES

HDFS-992. Re-factor block access token implementation to conform to the

generic Token interface in Common (Kan Zhang and Jitendra Pandey via jghoman)

HDFS-599. Allow NameNode to have a seprate port for service requests from

client requests. (Dmytro Molkov via hairong)

HDFS-1004. Update NN to support Kerberized SSL from HADOOP-6584.

(jghoman and Kan Zhang via jghoman)

HDFS-1005. Fsck security. (borya and Kan Zhang via jghoman)

HDFS-1006. getImage/putImage http requests should be https for the case

of security enabled. (borya and jghoman via jghoman)

HDFS-1033. In secure clusters, NN and SNN should verify that the remote

principal during image and edits transfer. (jghoman)

HDFS-1023. Allow http server to start as regular principal if https

principal not defined. (jghoman)

HDFS-1150. Verify datanodes' identities to clients in secure clusters.

(jghoman)

HDFS-1330. Make RPCs to DataNodes timeout. (hairong)

Added additional unit tests per HADOOP-6889. (John George via mattf)

HDFS-202. HDFS support of listLocatedStatus introduced in HADOOP-6870.

HDFS piggyback block locations to each file status when listing a

directory. (hairong)

HDFS-1361. Add -fileStatus operation to NNThroughputBenchmark. (shv)

HDFS-1435. Provide an option to store fsimage compressed. (hairong)

HDFS-903. Support fsimage validation through MD5 checksum. (hairong)

HDFS-1457. Provide an option to throttle image transmission between

pimary and secondary NameNodes. (Yifei Lu and hairong via hairong)

HDFS-1164. TestHdfsProxy is failing. (Todd Lipcon via cos)

HDFS-811. Add metrics, failure reporting and additional tests for HDFS-457.

(eli)

HDFS-895. Allow hflush/sync to occur in parallel with new writes

to the file. (Todd Lipcon via hairong)

HDFS-528. Add ability for safemode to wait for a minimum number of

live datanodes (Todd Lipcon via eli)

HDFS-1753. Resource Leak in StreamFile. (Uma Maheswara Rao G via eli)

IMPROVEMENTS

HDFS-1304. Add a new unit test for HftpFileSystem.open(..). (szetszwo)

HDFS-1096. fix for prev. commit. (boryas)

HDFS-1096. allow dfsadmin/mradmin refresh of superuser proxy group

mappings (boryas)

HDFS-1146. Javadoc for getDelegationTokenSecretManager in FSNamesystem (jnp via boryas)

HDFS-1132. Refactor TestFileStatus (Eli Collins via cos)

HDFS-1163. normalize property names for JT/NN kerberos principal

names in configuration (from HADOOP 6633) (boryas)

HDFS-1003. authorization checks for inter-server protocol

(based on HADOOP-6600) (boryas)

HDFS-1061. Memory footprint optimization for INodeFile object.

(Bharath Mundlapudi via jghoman)

HDFS-1079. Throw exceptions as specified by the AbstractFileSystem

in HDFS implemenation and protocols. (suresh)

HDFS-1112. Edit log buffer should not grow unfoundedly. (hairong)

HDFS-1119. Introduce a GSet interface to BlocksMap. (szetszwo)

HDFS-1184. Replace tabs in code with spaces. (Jeff Ames via jghoman)

HDFS-1185. Remove duplicate now() functions in DataNode, FSNamesysetm.

(Jeff Ames via jghoman)

HDFS-1183. Remove some duplicate code in NamenodeJspHelper.java.

(Jeff Ames via jghoman)

HDFS-1190. Remove unused getNamenode() method from DataNode.

(Jeff Ames via jghoman)

HDFS-1110. Reuses objects for commonly used file names in namenode to

reduce the heap usage. (suresh)

HDFS-752. Add interfaces classification to to HDFS source code. (suresh)

HDFS-947. An Hftp read request is redirected to a datanode that has

the most replicas of the blocks in the file. (Dmytro Molkov via dhruba)

HDFS-1272. Fixes to take care of the changes in HADOOP-6845.

(Jitendra Pandey via ddas)

HDFS-1298 - Add support in HDFS for new statistics added in FileSystem

to track the file system operations. (suresh)

HDFS-1201. The HDFS component for HADOOP-6632.

(Kan Zhang & Jitendra Pandey via ddas)

HDFS-1307 Add start time, end time and total time taken for FSCK to

FSCK report (suresh)

HDFS-1302. The HDFS side of the changes corresponding to HADOOP-6861.

(Jitendra Pandey & Owen O'Malley via ddas)

HDFS-1315. Add fsck event to audit log and remove other audit log events

corresponding to FSCK listStatus and open calls. (suresh)

HDFS-1178. The NameNode servlets should not use RPC to connect to the

NameNode. (Kan Zhang via jghoman)

HDFS-1130. Adds dfs.cluster.administrator ACL configuration that can

be used to control who can view the default hdfs servlets. (ddas)

HDFS-1297. Fix some comments. (Jeff Ames via jghoman)

HDFS-330. Datanode Web UIs should provide robots.txt.

(Allen Wittenauer via jghoman)

HDFS-881. Refactor DataNode Packet header into DataTransferProtocol.

(Todd Lipcon via jghoman)

HDFS-1036. docs for fetchdt

HDFS-1318. Add JMX interface for read access to namenode and datanode

web UI information. (Tanping Wang via suresh).

HDFS-1356. Provide information as to whether or not security is

enabled on web interface for NameNode (boryas)

HDFS-1205. FSDatasetAsyncDiskService should name its threads.

(Todd Lipcon via eli)

HDFS-1111. Introduce getCorruptFileBlocks() for fsck. (Sriram Rao via shv)

HDFS-1395. Add @Override to FSDataset methods that implement

FSDatasetInterface methods. (suresh)

HDFS-1383. Improve the error messages when using hftp://. (szetszwo)

HDFS-1093. Change the FSNamesystem lock to a read/write lock. (dhruba)

HDFS-1407. Change DataTransferProtocol methods to use Block instead

of individual elements of Block. (suresh)

HDFS-1417. Add @Override to SimulatedFSDataset methods that implement

FSDatasetInterface methods. (suresh)

HDFS-1426. Remove unused method BlockInfo#listCount. (hairong)

HDFS-1472. Allow programmatic access to fsck output.

(Ramkumar Vadali via dhruba)

HADOOP-7007. Update the hudson-test-patch ant target to work with the

latest test-patch.sh script (gkesavan)

HDFS-1462. Refactor edit log loading to a separate class from edit log writing.

(Todd Lipcon via eli)

HDFS-1485. Fix typo in BlockPlacementPolicy. (Jingguo Yao via shv)

HDFS-1035. Generate Eclipse's .classpath file from Ivy config. (nigel)

HDFS-1408. Herriot NN and DN clients should vend statistics. (cos)

HDFS-1491 Update Hdfs to match the change of methods from protected to public

in AbstractFileSystem (Hadoop-6903) (sanjay)

HDFS-1160. Improve some FSDataset warnings and comments. (eli)

HDFS-556. Provide info on failed volumes in the web ui. (eli)

HDFS-697. Enable asserts for tests by default. (eli)

HDFS-1187. Modify fetchdt to allow renewing and canceling token.

(Owen O'Malley and Kan Zhang via jghoman)

HDFS-1387. Update HDFS permissions guide for security. (Todd Lipcon via eli)

HDFS-455. Make NN and DN handle in a intuitive way comma-separated

configuration strings. (Michele Catasta via eli)

HDFS-1071. savenamespace should write the fsimage to all configured

fs.name.dir in parallel (Dmytro Molkov via jghoman)

HDFS-1055. Improve thread naming for DataXceivers.

(Todd Lipcon and Ramkumar Vadali via eli).

HDFS-718. Configuration parameter to prevent accidental formatting of

HDFS filesystem. (Andrew Ryan via jghoman)

HDFS-1500. TestOfflineImageViewer failing on trunk. (Todd Lipcon

via hairong)

HDFS-1483. DFSClient.getBlockLocations should indicate if corresponding

blocks are corrupt. (Patrick Kling via hairong)

HDFS-259. Remove intentionally corrupt 0.13 directory layout creation.

(Todd Lipcon via eli)

HDFS-1513. Fix a number of warnings. (eli)

HDFS-1473. Refactor storage management into separate classes than fsimage

file reading/writing. (Todd Lipcon via eli)

HDFS-1582. Remove auto-generated native build files. (rvs via eli)

HDFS-1456. Provide builder for constructing instances of MiniDFSCluster.

(jghoman)

HDFS-1861. Rename dfs.datanode.max.xcievers and bump its default value.

(eli)

HDFS-1052. HDFS Federation - Merge of umbrella jira changes from

HDFS-1052 branch into trunk.

HDFS-1835. DataNode should not depend on SHA1PRNG secure random generator

to generate a storage ID. (John Carrino via todd)

HDFS-1947. DFSClient should use mapreduce.task.attempt.id. (eli)

HDFS-1957. Add documentation for HFTP. (Ari Rabkin via todd)

HDFS-1454. Update the documentation to reflect that clients don't write

blocks to local disk before copying to HDFS. (Harsh J Chouraria via todd)

HDFS-1980. Move build/webapps deeper in the build directory heirarchy

to aid eclipse users. (todd)

HDFS-1619. Remove AC\_TYPE\* from the libhdfs. (Roman Shaposhnik via eli)

HDFS-1948 Forward port 'hdfs-1520 lightweight namenode operation to

trigger lease recovery' (stack)

HDFS-1954. Improved corrupt files warning on NameNode web UI.

(Patrick Hunt via shv)

HDFS-1409. BackupNode registration throwing

UnsupportedActionException("register") instead of "journal".

(Ching-Shen Chen via shv)

HDFS-2054 BlockSender.sendChunk() prints ERROR for connection closures

encountered during transferToFully() (Kihwal Lee via stack)

OPTIMIZATIONS

HDFS-1140. Speedup INode.getPathComponents. (Dmytro Molkov via shv)

HDFS-1081. Performance regression in

DistributedFileSystem::getFileBlockLocations in secure systems (jghoman)

HDFS-1114. Implement LightWeightGSet for BlocksMap in order to reduce

NameNode memory footprint. (szetszwo)

HDFS-1320. Add LOG.isDebugEnabled() guard for each LOG.debug(..).

(Erik Steffl via szetszwo)

HDFS-1368. Add a block counter to DatanodeDescriptor. (hairong)

HDFS-1434. Refactor Datanode#startDataNode method into smaller methods.

(suresh)

HDFS-941. The DFS client should cache and reuse open sockets to datanodes

while performing reads. (bc Wong and Todd Lipcon via todd)

BUG FIXES

HDFS-1039. Adding test for JspHelper.getUGI(jnp via boryas)

HDFS-1019. Incorrect default values for delegation tokens in

hdfs-default.xml (jnp via boryas)

HDFS-1039. Service should be set in the token in JspHelper.getUGI(jnp via boryas)

HDFS-1038. FIX. A test missed in a previous commit for this JIRA. (boryas)

HDFS-1038. In nn\_browsedfscontent.jsp fetch delegation token only

if security is enabled. (jnp via boryas)

HDFS-1044. Cannot submit mapreduce job from secure client to

unsecure sever (boryas)

HDFS-1021. specify correct server principal for RefreshAuthorizationPolicyProtocol

and RefreshUserToGroupMappingsProtocol protocols in DFSAdmin (for HADOOP-6612) (boryas)

HDFS-970. fsync fsimage to disk before closing fsimage file.

(Todd Lipcon via dhruba)

HDFS-1027. Update copyright year to 2010. (Ravi Phulari via jghoman)

HDFS-1080. SecondaryNameNode image transfer should use the defined http

address rather than local ip address. (jghoman)

HDFS-1198. Resolving cross-realm principals. (Jitendra Pandey via jghoman)

HDFS-1118. Fix socketleak on DFSClient. (Zheng Shao via dhruba)

HDFS-1192. refreshSuperUserGroupsConfiguration should use server side

configuration for the refresh (for HADOOP-6815) (boryas)

HDFS-1036. in DelegationTokenFetch dfs.getURI returns no port (boryas)

HDFS-1017. browsedfs jsp should call JspHelper.getUGI rather

than using createRemoteUser() (jnp via boryas)

HDFS-1250. Namenode should reject block reports and block received

requests from dead datanodes (suresh)

HDFS-1145. When NameNode is shutdown it does not try to exit

safemode anymore. (dhruba)

HDFS-1202. DataBlockScanner throws NPE when updated before

initialized. (Todd Lipcon via dhruba)

HDFS-882. Datanode logs the hostname and port its listening on.

(Steve Loughran via dhruba)

HDFS-1238. ant eclipse-files has drifted again, (jghoman)

HDFS-1045. In secure clusters, re-login is necessary for https

clients before opening connections. (jghoman)

HDFS-1289. Datanode secure mode is broken. (Kan Zhang via jghoman)

HDFS-1007. HFTP needs to be updated to use delegation tokens (boryas)

HDFS-1085. HFTP read may fail silently on the client side if there is an

exception on the server side. (szetszwo)

HDFS-1308. job conf key for the services name of DelegationToken for HFTP

url is constructed incorrectly in HFTPFileSystem (boryas)

HDFS-1319. Fix location of re-login for secondary namenode from HDFS-999.

(jghoman)

HDFS-1317. Remove the FILEPATH\_PATTERN from hdfsproxy.AuthorizationFilter.

(Rohini Palaniswamy via szetszwo)

HDFS-912. sed in build.xml on Solaris fails. (Allen Wittenauer via jghoman)

HDFS-1296. using delegation token over hftp for long running

clients (boryas)

HDFS-1334. open in HftpFileSystem does not add delegation tokens to the url.

(Jitendra Pandey via jghoman)

HDFS-1301. TestHDFSProxy need to use server side conf for ProxyUser

stuff. (boryas)

HDFS-1340. When security is turned off, there is a potential XSS attack.

This patch fixes it by removing delegationtoken string from the URL,

before returning a response to the client. (Jitendra Pandey via ddas)

HDFS-1347. TestDelegationToken uses mortbay.log for logging (boryas)

HDFS-1157. Modifications introduced by HDFS-1150 are breaking aspect's

bindings (cos)

HDFS-1349. Remove empty java files. (Eli Collins)

HDFS-1340. A null delegation token is appended to the url if security

is disabled when browsing filesystem. (boryas)

HDFS-1352. Fix jsvc.location. (Eli Collins via jghoman)

HDFS-1284. TestBlockToken fails. (Kan Zhang via jghoman)

HDFS-1355. ant veryclean (clean-cache) doesn't clean enough.

(Luke Lu via jghoman)

HDFS-1353. Remove most of getBlockLocation optimization. (jghoman)

HDFS-1369. Invalid javadoc reference in FSDatasetMBean.java (Eli Collins)

HDFS-829. hdfsJniHelper.c: #include <error.h> is not portable.

(Allen Wittenauer via jghoman)

HDFS-1310. The ClientDatanodeProtocol proxy should be stopped in

DFSInputStream.readBlockLength(..). (sam rash via szetszwo)

HDFS-1357. HFTP traffic served by DataNode shouldn't use service port

on NameNode. (Kan Zhang via jghoman)

HDFS-1419. HDFS Federation: Three test cases need minor modification after

the new block id change (Tanping Wang via suresh)

HDFS-96. HDFS supports blocks larger than 2 GB.

(Patrick Kling via dhruba)

HDFS-1433. Fix test failures - TestPread and TestFileLimit. (suresh)

HDFS-1364. Makes long running HFTP-based applications do relogins

if necessary. (Jitendra Pandey via ddas)

HDFS-1399. Distinct minicluster services (e.g. NN and JT) overwrite each

other's service policies. (Aaron T. Myers via tomwhite)

HDFS-1440. Fix TestComputeInvalidateWork failure. (suresh)

HDFS-1498. FSDirectory#unprotectedConcat calls setModificationTime

on a file. (eli)

HDFS-1625. Ignore disk space values in TestDataNodeMXBean. (szetszwo)

HDFS-1850. DN should transmit absolute failed volume count rather than

increments to the NN. (eli)

HDFS-671. Documentation change for updated configuration keys.

(tomwhite via eli)

HDFS-1544. Ivy resolve force mode should be turned off by default.

(Luke Lu via tomwhite)

HDFS-1615. seek() on closed DFS input stream throws NullPointerException

(Scott Carey via todd)

HDFS-1897. Documentation refers to removed option dfs.network.script

(Andrew Whang via todd)

HDFS-1621. Fix references to hadoop-common-${version} in build.xml

(Jolly Chen via todd)

HDFS-1505. saveNamespace appears to succeed even if all directories fail

to save. (Aaron T. Myers via todd)

HDFS-1921. saveNamespace can cause NN to be unable to come up on restart

(Matt Foley via todd)

HDFS-1925. SafeModeInfo should use the correct constant instead of a

hard-coded value for its default. (Joey Echeverria via todd)

HDFS-1575. Viewing block from web UI is broken. (Aaron T. Myers via todd)

HDFS-1932. Ensure that HDFS configuration deprecations are set up in every

spot that HDFS configurations are loaded. (Jolly Chen via todd)

HDFS-1952. FSEditLog.open() appears to succeed even if all EDITS

directories fail. (Andrew Wang via todd)

HDFS-1965. IPCs done using block token-based tickets can't reuse

connections (todd)

HDFS-1978. All but first option in LIBHDFS\_OPTS is ignored. (eli)

HDFS-1964. Fix incorrect HTML unescaping in DatanodeJspHelper

(Aaron T. Myers via todd)

HDFS-1997. Image transfer process misreports client side exceptions.

(todd via eli)

HDFS-2000. Missing deprecation for io.bytes.per.checksum.

(Aaron T. Myers vie eli)

HDFS-977. DataNode.createInterDataNodeProtocolProxy() guards a log

at the wrong level. (Harsh J Chouraria via todd)

HDFS-1969. Running rollback on new-version namenode destroys the

namespace. (todd)

HDFS-2039. TestNameNodeMetrics uses a bad test root path, preventing it

from running inside Eclipse. (todd)

HDFS-988. saveNamespace race can corrupt the edits log. (eli)

HDFS-2071. Use of isConnected() in DataXceiver is invalid. (Kihwal Lee

via todd)

HDFS-1981. NameNode does not saveNamespace() when editsNew is empty.

(Uma Maheswara Rao G via shv)

HDFS-2232. Generalize regular expressions in TestHDFSCLI.

(Plamen Jeliazkov via shv)

HDFS-2290. Block with corrupt replica is not getting replicated.

(Benoy Antony via shv)

HDFS-2452. OutOfMemoryError in DataXceiverServer takes down the DataNode

(Uma Maheswara Rao via cos)

HDFS-2002. Incorrect computation of needed blocks in getTurnOffTip().

(Plamen Jeliazkov via shv)

HDFS-2514. Link resolution bug for intermediate symlinks with

relative targets. (eli)

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HDFS-1466. TestFcHdfsSymlink relies on /tmp/test not existing. (eli)

HDFS-874. TestHDFSFileContextMainOperations fails on weirdly

configured DNS hosts. (Todd Lipcon via eli)

HDFS-1507. TestAbandonBlock should abandon a block. (eli)

HDFS-1487. FSDirectory.removeBlock() should update diskspace count

of the block owner node (Zhong Wang via eli).

HDFS-1467. Append pipeline never succeeds with more than one replica.

(Todd Lipcon via eli)

HDFS-1167. New property for local conf directory in system-test-hdfs.xml

file. (Vinay Thota via cos)

HDFS-1503. TestSaveNamespace fails. (Todd Lipcon via cos)

HDFS-1524. Image loader should make sure to read every byte in image file.

(hairong)

HDFS-1523. TestLargeBlock is failing on trunk. (cos)

HDFS-1502. TestBlockRecovery triggers NPE in assert. (hairong via cos)

HDFS-1532. Exclude Findbugs warning in FSImageFormat$Saver. (Todd Lipcon

via cos)

HDFS-1527. SocketOutputStream.transferToFully fails for blocks >= 2GB on

32 bit JVM. (Patrick Kling via cos)

HDFS-1531. Clean up stack traces due to duplicate MXBean registration.

(Todd Lipcon via cos)

HDFS-613. TestBalancer and TestBlockTokenWithDFS fail Balancer assert.

(Todd Lipcon via cos)

HDFS-1511. 98 Release Audit warnings on trunk and branch-0.22.

(jghoman)

HDFS-1560. dfs.data.dir permissions should default to 700.

(Todd Lipcon via eli)

HDFS-1550. NPE when listing a file with no location. (hairong)

HDFS-1542. Add test for HADOOP-7082, a deadlock writing Configuration to

HDFS. (todd)

HDFS-1504. FSImageSaver should catch all exceptions, not just IOE. (todd)

HDFS-884. DataNode throws IOException if all data directories are

unavailable. (Steve Loughran and shv)

HDFS-1591. HDFS part of HADOOP-6642. (Chris Douglas, Po Cheung via shv)

HDFS-900. Corrupt replicas are not processed correctly in block report (shv)

HDFS-1529. Incorrect handling of interrupts in waitForAckedSeqno can cause

deadlock (todd)

HDFS-1597. Batched edit log syncs can reset synctxid and throw assertions

(todd)

HDFS-1602. Fix HADOOP-4885 for it is doesn't work as expected. (boryas)

HDFS-1618. configure files that are generated as part of the released

tarball need to have executable bit set (Roman Shaposhnik via cos)

HDFS-981. test-contrib fails due to test-cactus failure (cos)

HDFS-1001. DataXceiver and BlockReader disagree on when to send/recv

CHECKSUM\_OK. (bc Wong via eli)

HDFS-1781. Fix the path for jsvc in bin/hdfs. (John George via szetszwo)

HDFS-1782. Fix an NPE in FSNamesystem.startFileInternal(..).

(John George via szetszwo)

HDFS-1821. Fix username resolution in NameNode.createSymlink(..) and

FSDirectory.addSymlink(..). (John George via szetszwo)

HDFS-1806. TestBlockReport.blockReport\_08() and \_09() are timing-dependent

and likely to fail on fast servers. (Matt Foley via eli)

HDFS-1845. Symlink comes up as directory after namenode restart.

(John George via eli)

HDFS-1666. Disable failing hdfsproxy test TestAuthorizationFilter (todd)

HDFS-1823. start-dfs.sh script fails if HADOOP\_HOME is not set.

(tomwhite via eli)

Release 0.21.1 - Unreleased

HDFS-1411. Correct backup node startup command in hdfs user guide.

(Ching-Shen Chen via shv)

BUG FIXES

HDFS-1363. Eliminate second synchronized sections in appendFile(). (shv)

HDFS-1413. Fix broken links to HDFS Wiki. (shv)

HDFS-1420. Clover build doesn't generate per-test coverage (cos)

HDFS-1444. Test related code of build.xml is error-prone and needs to be

re-aligned. (cos)

HDFS-1343. Instrumented build should be concentrated in one build area (cos)

HDFS-1452. ant compile-contrib is broken (cos)

HDFS-1474. ant binary-system is broken (cos)

HDFS-1292. Allow artifacts to be published to the staging Apache Nexus

Maven Repository. (Giridharan Kesavan via tomwhite)

HDFS-1552. Remove java5 dependencies from build. (cos)

HDFS-1189. Quota counts missed between clear quota and set quota.

(John George via szetszwo)

HDFS-1665. Balancer misuses dfs.heartbeat.interval as milliseconds.

(szetszwo)

HDFS-1728. SecondaryNameNode.checkpointSize is in bytes but not in MB.

(szetszwo)

HDFS-1206. TestFiHFlush fails intermittently. (cos)

HDFS-1548. Fault-injection tests are executed multiple times if invoked

with run-test-hdfs-fault-inject target (cos)

HDFS-1552. Remove java5 dependencies from build. (cos)

HDFS-996. JUnit tests should never depend on anything in conf (cos)

HDFS-1612. Update HDFS design documentation for append, quota, symlink,

block placement and checkpoint/backup node features. (Joe Crobak

via szetszwo)

HDFS-1596. Replace fs.checkpoint.\* with dfs.namenode.checkpoint.\*

in documentations. (Harsh J Chouraria via szetszwo)

HDFS-1786. Some cli test cases expect a "null" message

(Uma Maheswara Rao G via todd)

HDFS-1855. TestDatanodeBlockScanner.testBlockCorruptionRecoveryPolicy()

part 2 fails in two different ways. (Matt Foley via eli)

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INCOMPATIBLE CHANGES

HDFS-538. Per the contract elucidated in HADOOP-6201, throw

FileNotFoundException from FileSystem::listStatus rather than returning

null. (Jakob Homan via cdouglas)

HDFS-602. DistributedFileSystem mkdirs throws FileAlreadyExistsException

instead of FileNotFoundException. (Boris Shkolnik via suresh)

HDFS-544. Add a "rbw" subdir to DataNode data directory. (hairong)

HDFS-576. Block report includes under-construction replicas. (shv)

HDFS-636. SafeMode counts complete blocks only. (shv)

HDFS-644. Lease recovery, concurrency support. (shv)

HDFS-570. Get last block length from a data-node when opening a file

being written to. (Tsz Wo (Nicholas), SZE via shv)

HDFS-657. Remove unused legacy data-node protocol methods. (shv)

HDFS-658. Block recovery for primary data-node. (shv)

HDFS-660. Remove deprecated methods from InterDatanodeProtocol. (shv)

HDFS-512. Block.equals() and compareTo() compare blocks based

only on block Ids, ignoring generation stamps. (shv)

HDFS-873. Configuration specifies data-node storage directories as URIs.

(shv)

HDFS-905. Use the new UserGroupInformation from HDFS-6299.

(jghoman via omalley)

HDFS-984. Persistent delegation tokens. (Jitendra Pandey via shv)

HDFS-1016. HDFS side change for HADOOP-6569. This jira changes the

error message on the screen when cat a directory or a

non-existent file. (hairong)

NEW FEATURES

HDFS-1134. Large-scale Automated Framework. (cos)

HDFS-436. Introduce AspectJ framework for HDFS code and tests.

(Konstantin Boudnik via szetszwo)

HDFS-447. Add LDAP lookup to hdfsproxy. (Zhiyong Zhang via cdouglas)

HDFS-459. Introduce Job History Log Analyzer. (shv)

HDFS-461. Tool to analyze file size distribution in HDFS. (shv)

HDFS-492. Add two JSON JSP pages to the Namenode for providing corrupt

blocks/replicas information. (Bill Zeller via szetszwo)

HDFS-578. Add support for new FileSystem method for clients to get server

defaults. (Kan Zhang via suresh)

HDFS-595. umask settings in configuration may now use octal or symbolic

instead of decimal. (Jakob Homan via suresh)

HADOOP-6234. Updated hadoop-core and test jars to propagate new option

dfs.umaskmode in configuration. (Jakob Homan via suresh)

HDFS-235. Add support for byte ranges in HftpFileSystem to serve

range of bytes from a file. (Bill Zeller via suresh)

HDFS-385. Add support for an experimental API that allows a module external

to HDFS to specify how HDFS blocks should be placed. (dhruba)

HADOOP-4952. Update hadoop-core and test jars to propagate new FileContext

file system application interface. (Sanjay Radia via suresh).

HDFS-567. Add block forensics contrib tool to print history of corrupt and

missing blocks from the HDFS logs.

(Bill Zeller, Jitendra Nath Pandey via suresh).

HDFS-610. Support o.a.h.fs.FileContext. (Sanjay Radia via szetszwo)

HDFS-536. Support hflush at DFSClient. (hairong)

HDFS-517. Introduce BlockInfoUnderConstruction to reflect block replica

states while writing. (shv)

HDFS-565. Introduce block committing logic during new block allocation

and file close. (shv)

HDFS-537. DataNode exposes a replica's meta info to BlockReceiver for the

support of dfs writes/hflush. It also updates a replica's bytes received,

bytes on disk, and bytes acked after receiving a packet. (hairong)

HDFS-585. Datanode should serve up to visible length of a replica for read

requests. (szetszwo)

HDFS-604. Block report processing for append. (shv)

HDFS-619. Support replica recovery initialization in datanode for the new

append design. (szetszwo)

HDFS-592. Allow clients to fetch a new generation stamp from NameNode for

pipeline recovery. (hairong)

HDFS-624. Support a new algorithm for pipeline recovery and pipeline setup

for append. (hairong)

HDFS-627. Support replica update in data-node.

(Tsz Wo (Nicholas), SZE and Hairong Kuang via shv)

HDFS-642. Support pipeline close and close error recovery. (hairong)

HDFS-631. Rename configuration keys towards API standardization and

backward compatibility. (Jitendra Nath Pandey via suresh)

HDFS-669. Add unit tests framework (Mockito) (cos, Eli Collins)

HDFS-731. Support new Syncable interface in HDFS. (hairong)

HDFS-702. Add HDFS implementation of AbstractFileSystem.

(Sanjay Radio via suresh)

HDFS-758. Add decommissioning status page to Namenode Web UI.

(Jitendra Nath Pandey via suresh)

HDFS-814. Add an api to get the visible length of a DFSDataInputStream.

(szetszwo)

HDFS-654. Add support new atomic rename functionality in HDFS for

supporting rename in FileContext. (suresh)

HDFS-222. Support for concatenating of files into a single file

without copying. (Boris Shkolnik via hairong)

HDFS-933. Adds Delegation token based authentication in the NameNode.

(Kan Zhang via ddas)

HDFS-935. Adds a real user component in Delegation token.

(Jitendra Nath Pandey via ddas)

HDFS-245. Adds a symlink implementation to HDFS. This complements the new

symlink feature added in HADOOP-6421 (Eli Collins via Sanjay Radia)

HDFS-1009. Support Kerberos authorization in HDFSProxy. (Srikanth

Sundarrajan via szetszwo)

HDFS-1091. Implement listStatus that returns an iterator of FileStatus.

(hairong)

IMPROVEMENTS

HDFS-381. Remove blocks from DataNode maps when corresponding file

is deleted. (Suresh Srinivas via rangadi)

HDFS-377. Separate codes which implement DataTransferProtocol.

(szetszwo)

HDFS-396. NameNode image and edits directories are specified as URIs.

(Luca Telloli via rangadi)

HDFS-444. Allow to change probability levels dynamically in the fault

injection framework. (Konstantin Boudnik via szetszwo)

HDFS-352. Documentation for saveNamespace command. (Ravi Phulari via shv)

HADOOP-6106. Updated hadoop-core and test jars from hudson trunk

build #12. (Giridharan Kesavan)

HDFS-204. Add a new metrics FilesInGetListingOps to the Namenode.

(Jitendra Nath Pandey via szetszwo)

HDFS-278. HDFS Outputstream close does not hang forever. (dhruba)

HDFS-443. Add a new metrics numExpiredHeartbeats to the Namenode.

(Jitendra Nath Pandey via szetszwo)

HDFS-475. Add new ant targets for fault injection jars and tests.

(Konstantin Boudnik via szetszwo)

HDFS-458. Create a new ant target, run-commit-test. (Jakob Homan

via szetszwo)

HDFS-493. Change build.xml so that the fault-injected tests are executed

only by the run-test-\*-fault-inject targets. (Konstantin Boudnik via

szetszwo)

HDFS-446. Improvements to Offline Image Viewer. (Jakob Homan via shv)

HADOOP-6160. Fix releaseaudit target to run on specific directories.

(gkesavan)

HDFS-501. Use enum to define the constants in DataTransferProtocol.

(szetszwo)

HDFS-508. Factor out BlockInfo from BlocksMap. (shv)

HDFS-510. Rename DatanodeBlockInfo to be ReplicaInfo.

(Jakob Homan & Hairong Kuang via shv)

HDFS-500. Deprecate NameNode methods deprecated in NameNodeProtocol.

(Jakob Homan via shv)

HDFS-514. Change DFSClient.namenode from public to private. (Bill Zeller

via szetszwo)

HDFS-496. Use PureJavaCrc32 in HDFS. (Todd Lipcon via szetszwo)

HDFS-511. Remove redundant block searches in BlockManager. (shv)

HDFS-504. Update the modification time of a file when the file

is closed. (Chun Zhang via dhruba)

HDFS-498. Add development guide and documentation for the fault injection

framework. (Konstantin Boudnik via szetszwo)

HDFS-524. Further DataTransferProtocol code refactoring. (szetszwo)

HDFS-529. Use BlockInfo instead of Block to avoid redundant block searches

in BlockManager. (shv)

HDFS-530. Refactor TestFileAppend\* to remove code duplication.

(Konstantin Boudnik via szetszwo)

HDFS-451. Add fault injection tests for DataTransferProtocol. (szetszwo)

HDFS-409. Add more access token tests. (Kan Zhang via szetszwo)

HDFS-546. DatanodeDescriptor iterates blocks as BlockInfo. (shv)

HDFS-457. Do not shutdown datanode if some, but not all, volumes fail.

(Boris Shkolnik via szetszwo)

HDFS-548. TestFsck takes nearly 10 minutes to run. (hairong)

HDFS-539. Refactor fault injeciton pipeline test util for future reuse.

(Konstantin Boudnik via szetszwo)

HDFS-552. Change TestFiDataTransferProtocol to junit 4 and add a few new

tests. (szetszwo)

HDFS-563. Simplify the codes in FSNamesystem.getBlockLocations(..).

(szetszwo)

HDFS-581. Introduce an iterator over blocks in the block report array.(shv)

HDFS-549. Add a new target, run-with-fault-inject-testcaseonly, which

allows an execution of non-FI tests in FI-enable environment. (Konstantin

Boudnik via szetszwo)

HDFS-173. Namenode will not block until a large directory deletion

completes. It allows other operations when the deletion is in progress.

(suresh)

HDFS-551. Create new functional test for a block report. (Konstantin

Boudnik via hairong)

HDFS-288. Redundant computation in hashCode() implementation.

(szetszwo via tomwhite)

HDFS-412. Hadoop JMX usage makes Nagios monitoring impossible.

(Brian Bockelman via tomwhite)

HDFS-472. Update hdfsproxy documentation. Adds a setup guide and design

document. (Zhiyong Zhang via cdouglas)

HDFS-617. Support non-recursive create(). (Kan Zhang via szetszwo)

HDFS-618. Support non-recursive mkdir(). (Kan Zhang via szetszwo)

HDFS-574. Split the documentation between the subprojects.

(Corinne Chandel via omalley)

HDFS-598. Eclipse launch task for HDFS. (Eli Collins via tomwhite)

HDFS-641. Move all of the components that depend on map/reduce to

map/reduce. (omalley)

HDFS-509. Redesign DataNode volumeMap to include all types of Replicas.

(hairong)

HDFS-562. Add a test for NameNode.getBlockLocations(..) to check read from

un-closed file. (szetszwo)

HDFS-543. Break FSDatasetInterface#writToBlock() into writeToRemporary,

writeToRBW, ad append. (hairong)

HDFS-603. Add a new interface, Replica, which is going to replace the use

of Block in datanode. (szetszwo)

HDFS-589. Change block write protocol to support pipeline recovery.

(hairong)

HDFS-652. Replace BlockInfo.isUnderConstruction() with isComplete() (shv)

HDFS-648. Change some methods in AppendTestUtil to public. (Konstantin

Boudnik via szetszwo)

HDFS-662. Unnecessary info message from DFSClient. (hairong)

HDFS-518. Create new tests for Append's hflush. (Konstantin Boudnik

via szetszwo)

HDFS-688. Add configuration resources to DFSAdmin. (shv)

HDFS-29. Validate the consistency of the lengths of replica and its file

in replica recovery. (szetszwo)

HDFS-680. Add new access method to a copy of a block's replica. (shv)

HDFS-704. Unify build property names to facilitate cross-projects

modifications (cos)

HDFS-705. Create an adapter to access some of package-private methods of

DataNode from tests (cos)

HDFS-710. Add actions with constraints to the pipeline fault injection

tests and change SleepAction to support uniform random sleeping over an

interval. (szetszwo)

HDFS-713. Need to properly check the type of the test class from an aspect

(cos)

HDFS-716. Define a pointcut for pipeline close and add a few fault

injection tests to simulate out of memory problem. (szetszwo)

HDFS-719. Add 6 fault injection tests for pipeline close to simulate slow

datanodes and disk errors. (szetszwo)

HDFS-616. Create functional tests for new design of the block report. (cos)

HDFS-584. Fail the fault-inject build if any advices are mis-bound. (cos)

HDFS-730. Add 4 fault injection tests to simulate non-responsive datanode

and out-of-memory problem for pipeline close ack. (szetszwo)

HDFS-728. Create a comprehensive functional test for append. (hairong)

HDFS-736. commitBlockSynchronization() updates block GS and length

in-place. (shv)

HADOOP-5107. Use Maven ant tasks to publish the subproject jars.

(Giridharan Kesavan via omalley)

HDFS-521. Create new tests for pipeline (cos)

HDFS-764. Places the Block Access token implementation in hdfs project.

(Kan Zhang via ddas)

HDFS-787. Upgrade some libraries to be consistent with common and

mapreduce. (omalley)

HDFS-519. Create new tests for lease recovery (cos)

HDFS-804. New unit tests for concurrent lease recovery (cos)

HDFS-813. Enable the append test in TestReadWhileWriting. (szetszwo)

HDFS-145. Cleanup inconsistent block length handling code in

FSNameSystem#addStoredBlock. (hairong)

HDFS-127. Reset failure count in DFSClient for each block acquiring

operation. (Igor Bolotin via szetszwo)

HDFS-520. Create new tests for block recovery. (hairong)

HDFS-1067. Create block recovery tests that handle errors. (hairong)

HDFS-1107. Turn on append by default. (shv)

HDFS-968. Use StringBuilder instead of StringBuffer for better

performance. (Kay Kay via suresh)

HDFS-703. Replace current fault injection implementation with one

from (cos)

HDFS-754. Reduce ivy console output to observable level (cos)

HDFS-832. HDFS side of HADOOP-6222. (cos)

HDFS-840. Change tests to use FileContext test helper introduced in

HADOOP-6394. (Jitendra Nath Pandey via suresh)

HDFS-685. Use the user-to-groups mapping service in the NameNode.

(boryas, acmurthy)

HDFS-755. Read multiple checksum chunks at once in DFSInputStream.

(Todd Lipcon via tomwhite)

HDFS-786. Implement getContentSummary in HftpFileSystem.

(Tsz Wo (Nicholas), SZE via cdouglas)

HDFS-587. Add support for specifying queue name in mapreduce tests.

(Erik Steffl via suresh)

HDFS-902 Move contrib/raid to MapReduce. (Eli Collins via omalley)

HDFS-800. The last block of a file under construction may change to the

COMPLETE state in response to getAdditionalBlock or completeFileInternal.

(hairong)

HDFS-899. Delegation Token Implementation

and corresponding changes in Namenode and DFS Api to issue,

renew and cancel delegation tokens. (jnp via boryas)

HDFS-844. Log the filename when file locking fails. (tomwhite)

HDFS-914. Refactor DFSOutputStream and DFSInputStream out of DFSClient.

(Todd Lipcon via tomwhite)

HDFS-949. Move DelegationToken into Common so that it can be used by

MapReduce. (omalley)

HDFS-930. Better error message for DATA\_TRANSFER\_VERSION mismatched.

(Kay Kay via szetszwo)

HDFS-986. Delegation token renewing and cancelling should provide

meaningful exceptions when there are failures instead of returning

false. (omalley)

HADOOP-6579. Upgrade the commons-codec library to 1.4. (omalley)

HDFS-991. Allow authentication to the web ui via a delegation token.

(omalley)

HDFS-994. Allow fetching of delegation token from NameNode for hftp.

(Jakob Homan via acmurthy)

HDFS-998. Quote blocks streamed through jsps. (cdouglas)

HDFS-729. NameNode API to list files that have missing blocks.

(Rodrigo Schmidt via dhruba)

HDFS-850. The WebUI display more details about namenode memory usage.

(Dmytro Molkov via dhruba)

HDFS-826. The DFSOutputStream has a API that returns the number of

active datanode(s) in the current pipeline. (dhruba)

HDFS-985. HDFS should issue multiple RPCs for listing a large

directory. (hairong)

HDFS-1043. NNThroughputBenchmark modifications to support benchmarking of

server-side user group resolution. (shv)

HDFS-892. Optionally use Avro reflection for Namenode RPC. This

is not a complete implementation yet, but rather a starting point.

(cutting)

HDFS-854. Datanode should scan devices in parallel to generate

block report. (Dmytro Molkov via jhoman)

HDFS-1032. fsck has an option to list corrupt files.

(Andre Oriai via dhruba)

HDFS-1024. SecondaryNameNode verifies size of fsimage and edits file.

(Dmytro Molkov via dhruba)

HDFS-1011. hdfsproxy: Improve log messages by restoring the previous

thread name. (Srikanth Sundarrajan via szetszwo)

HDFS-997. Allow datanode storage directory permissions to be configurable.

(Luke Lu via cdouglas)

HDFS-1012. hdfsproxy: Support for fully qualified HDFS path in addition to

simple unqualified path. (Srikanth Sundarrajan via szetszwo)

HDFS-933. Namenode should issue a delegation token only for kerberos

authenticated clients.(jnp via boryas)

HDFS-1087. Modify audit log to use a StringBuilder rather than a Formatter.

(cdouglas)

HDFS-1083. Update TestHDFSCLI not to expect exception class name

in error messages. (suresh)

HDFS-1099. Add test for umask backward compatibility. (suresh)

HDFS-1092. Use logging rather than System.err in MiniDFSCluster.

(Kay Kay via jghoman)

HDFS-1047. Install/deploy source jars to Maven repo.

(Patrick Angeles via jghoman)

HDFS-666. Unit test for FsShell -text. (cdouglas via jghoman)

HDFS-1054. Remove unnecessary sleep after failure in nextBlockOutputStream.

(Todd Lipcon via jghoman)

HDFS-921. Convert TestDFSClientRetries::testNotYetReplicatedErrors

to Mockito. (jghoman)

HDFS-1100. Override unwrapException in TestFcHdfsSymlink to test

symlink API conformance. (Eli Collins via suresh).

HDFS-1089. Remove uses of FileContext#isFile, isDirectory, and exists.

(Eli Collins via hairong)

HDFS-1028. Efficient splitting of path components reduces the time

to load in fsimage by 20%. (Dmytro Molkov via dhruba)

HDFS-1109. HFTP supports filenames that contains the character "+".

(Dmytro Molkov via dhruba)

HDFS-853. The HDFS webUI displays the balanced-ness of the cluster.

(Dmytro Molkov via dhruba)

HDFS-1126. Change HDFS to depend on Hadoop 'common' artifacts instead

of 'core'. (tomwhite)

HDFS-995. Replace usage of FileStatus#isDir(). (Eli Collins via

tomwhite)

HDFS-1161. Make DN minimum valid volumes configurable.

(Eli Collins via tomwhite)

HDFS-1181. Move configuration and script files post split. (tomwhite)

HDFS-1170. Add more assertions to TestLargeDirectoryDelete.

(Steve Loughran via tomwhite)

HDFS-1199. Extract a subset of tests for smoke (DOA) validation. (cos)

HDFS-1174. New properties for suspend and resume process. (Vinay Thota via

cos)

HDFS-1277. [Herriot] New property for multi user list. (Vinay Thota via

cos)

HDFS-806. Add new unit tests to the 10-mins 'run-commit-test' target (cos)

OPTIMIZATIONS

HDFS-946. NameNode should not return full path name when lisitng a

diretory or getting the status of a file. (hairong)

BUG FIXES

HDFS-76. Better error message to users when commands fail because of

lack of quota. Allow quota to be set even if the limit is lower than

current consumption. (Boris Shkolnik via rangadi)

HADOOP-4687. HDFS is split from Hadoop Core. It is a subproject under

Hadoop (Owen O'Malley)

HADOOP-6096. Fix Eclipse project and classpath files following project

split. (tomwhite)

HDFS-195. Handle expired tokens when write pipeline is reestablished.

(Kan Zhang via rangadi)

HDFS-181. Validate src path in FSNamesystem.getFileInfo(..). (Todd

Lipcon via szetszwo)

HDFS-441. Remove TestFTPFileSystem. (szetszwo)

HDFS-440. Fix javadoc broken links in DFSClient. (szetszwo)

HDFS-480. Fix a typo in the jar name in build.xml.

(Konstantin Shvachko via gkesavan)

HDFS-438. Check for NULL before invoking GenericArgumentParser in

DataNode. (Raghu Angadi)

HDFS-415. BlockReceiver hangs in case of certain runtime exceptions.

(Konstantin Boudnik via rangadi)

HDFS-462. loadFSImage should close edits file. (Jakob Homan via shv)

HDFS-489. Update TestHDFSCLI for the -skipTrash option in rm. (Jakob Homan

via szetszwo)

HDFS-445. pread() does not pick up changes to block locations.

(Kan Zhang via rangadi)

HDFS-463. CreateEditLog utility broken after HDFS-396 (URI for

FSImage). (Suresh Srinivas via rangadi)

HDFS-484. Fix bin-package and package target to package jar files.

(gkesavan)

HDFS-490. Eliminate the deprecated warnings introduced by H-5438.

(He Yongqiang via szetszwo)

HDFS-119. Fix a bug in logSync(), which causes NameNode block forever.

(Suresh Srinivas via shv)

HDFS-534. Include avro in ivy. (szetszwo)

HDFS-532. Allow applications to know that a read request failed

because block is missing. (dhruba)

HDFS-561. Fix write pipeline READ\_TIMEOUT in DataTransferProtocol.

(Kan Zhang via szetszwo)

HDFS-553. BlockSender reports wrong failed position in ChecksumException.

(hairong)

HDFS-568. Set mapred.job.tracker.retire.jobs to false in

src/test/mapred-site.xml for mapreduce tests to run. (Amareshwari

Sriramadasu via szetszwo)

HDFS-15. All replicas end up on 1 rack. (Jitendra Nath Pandey via hairong)

HDFS-586. TestBlocksWithNotEnoughRacks sometimes fails.

(Jitendra Nath Pandey via hairong)

HADOOP-6243. Fixed a NullPointerException in handling deprecated keys.

(Sreekanth Ramakrishnan via yhemanth)

HDFS-605. Do not run fault injection tests in the run-test-hdfs-with-mr

target. (Konstantin Boudnik via szetszwo)

HDFS-606. Fix ConcurrentModificationException in invalidateCorruptReplicas()

(shv)

HDFS-601. TestBlockReport obtains data directories directly from

MiniHDFSCluster. (Konstantin Boudnik via shv)

HDFS-614. TestDatanodeBlockScanner obtains data directories directly from

MiniHDFSCluster. (shv)

HDFS-612. Remove the use of org.mortbay.log.Log in FSDataset. (szetszwo)

HDFS-622. checkMinReplication should count live nodes only. (shv)

HDFS-629. Remove ReplicationTargetChooser.java along with fixing

import warnings generated by Eclipse. (dhruba)

HDFS-637. DataNode sends a Success ack when block write fails. (hairong)

HDFS-640. Fixed TestHDFSFileContextMainOperations.java build failure. (suresh)

HDFS-547. TestHDFSFileSystemContract#testOutputStreamClosedTwice

sometimes fails with CloseByInterruptException. (hairong)

HDFS-588. Fix TestFiDataTransferProtocol and TestAppend2 failures. (shv)

HDFS-550. DataNode restarts may introduce corrupt/duplicated/lost replicas

when handling detached replicas. (hairong)

HDFS-659. If the the last block is not complete, update its length with

one of its replica's length stored in datanode. (szetszwo)

HDFS-649. Check null pointers for DataTransferTest. (Konstantin Boudnik

via szetszwo)

HDFS-661. DataNode upgrade fails on non-existant current directory.

(hairong)

HDFS-597. Mofication introduced by HDFS-537 breakes an advice binding in

FSDatasetAspects. (Konstantin Boudnik via szetszwo)

HDFS-665. TestFileAppend2 sometimes hangs. (hairong)

HDFS-676. Fix NPE in FSDataset.updateReplicaUnderRecovery() (shv)

HDFS-673. BlockReceiver#PacketResponder should not remove a packet from

the ack queue before its ack is sent. (hairong)

HDFS-682. Fix bugs in TestBlockUnderConstruction. (szetszwo)

HDFS-668. TestFileAppend3#TC7 sometimes hangs. (hairong)

HDFS-679. Appending to a partial chunk incorrectly assumes the

first packet fills up the partial chunk. (hairong)

HDFS-722. Fix callCreateBlockWriteStream pointcut in FSDatasetAspects.

(szetszwo)

HDFS-690. TestAppend2#testComplexAppend failed on "Too many open files".

(hairong)

HDFS-725. Support the build error fix for HADOOP-6327. (Sanjay Radia via

szetszwo)

HDFS-625. Fix NullPointerException thrown from ListPathServlet. (suresh)

HDFS-735. TestReadWhileWriting has wrong line termination symbols (cos)

HDFS-691. Fix an overflow error in DFSClient.DFSInputStream.available().

(szetszwo)

HDFS-733. TestBlockReport fails intermittently. (cos)

HDFS-774. Intermittent race condition in TestFiPipelines (cos)

HDFS-741. TestHFlush test doesn't seek() past previously written part of

the file (cos, szetszwo)

HDFS-706. Intermittent failures in TestFiHFlush (cos)

HDFS-646. Fix test-patch failure by adding test-contrib ant target.

(gkesavan)

HDFS-791. Build is broken after HDFS-787 patch has been applied (cos)

HDFS-792. TestHDFSCLI is failing. (Todd Lipcon via cos)

HDFS-781. Namenode metrics PendingDeletionBlocks is not decremented.

(Suresh)

HDFS-192. Fix TestBackupNode failures. (shv)

HDFS-797. TestHDFSCLI much slower after HDFS-265 merge. (Todd Lipcon via cos)

HDFS-824. Stop lease checker in TestReadWhileWriting. (szetszwo)

HDFS-823. CheckPointer should use addInternalServlet for image-fetching

servlet (jghoman)

HDFS-456. Fix URI generation for windows file paths. (shv)

HDFS-812. FSNamesystem#internalReleaseLease throws NullPointerException on

a single-block file's lease recovery. (cos)

HDFS-724. Pipeline hangs if one of the block receiver is not responsive.

(hairong)

HDFS-564. Adding pipeline tests 17-35. (hairong)

HDFS-849. TestFiDataTransferProtocol2#pipeline\_Fi\_18 sometimes fails.

(hairong)

HDFS-762. Balancer causes Null Pointer Exception.

(Cristian Ivascu via dhruba)

HDFS-868. Fix link to Hadoop Upgrade Wiki. (Chris A. Mattmann via shv)

HDFS-880. TestNNLeaseRecovery fails on windows (cos, shv)

HDFS-699. Primary datanode should compare replicas' on disk lengths.

(hairong)

HDFS-897. Fix a bug related to generation stamp comparison in

ReplicasMap. (suresh)

HDFS-793. Data node should receive the whole packet ack message before it

constructs and sends its own ack message for the packet. (hairong)

HDFS-101. DFS write pipeline: DFSClient sometimes does not detect second

datanode failure. (hairong)

HDFS-822. Appends to already-finalized blocks can rename across volumes.

(hairong)

HDFS-1046. Fix Tomcat version in hdfsproxy/build.xml. (Srikanth

Sundarrajan via szetszwo)

HDFS-1072. Fix TestReadWhileWriting failure. (Erik Steffl via shv)

HDFS-913. Rename fault injection test TestRename.java to TestFiRename.java

to include it in tests run by ant target run-test-hdfs-fault-inject.

(suresh)

HDFS-695. RaidNode should read in configuration from hdfs-site.xml.

(dhruba)

HDFS-726. Eclipse .classpath template has outdated jar files and is

missing some new ones. (cos)

HDFS-750. Fix build failure due to TestRename. (suresh)

HDFS-712. Move libhdfs from mapreduce subproject to hdfs subproject.

(Eli Collins via dhruba)

HDFS-757. Enable Unit test for HDFS Raid. (dhruba)

HDFS-611. Prevent DataNode heartbeat times from increasing even when

the DataNode has many blocks to delete. (Zheng Shao via dhruba)

HDFS-751. Fix TestCrcCorruption to pick up the correct datablocks to

corrupt. (dhruba)

HDFS-763. Fix slightly misleading report from DataBlockScanner

about corrupted scans. (dhruba)

HDFS-727. bug setting block size hdfsOpenFile (Eli Collins via cos)

HDFS-756. libhdfs unit tests do not run. (Eli Collins via cos)

HDFS-783. libhdfs tests brakes code coverage runs with Clover (cos)

HDFS-785. Add Apache license to several namenode unit tests.

(Ravi Phulari via jghoman)

HDFS-802. Update Eclipse configuration to match changes to Ivy

configuration (Edwin Chan via cos)

HDFS-423. Unbreak FUSE build and fuse\_dfs\_wrapper.sh (Eli Collins via cos)

HDFS-825. Build fails to pull latest hadoop-core-\* artifacts (cos)

HDFS-94. The Heap Size printed in the NameNode WebUI is accurate.

(Dmytro Molkov via dhruba)

HDFS-767. An improved retry policy when the DFSClient is unable to fetch a

block from the datanode. (Ning Zhang via dhruba)

HDFS-775. FSDataset calls getCapacity() twice. (stevel)

HDFS-885. Datanode toString() NPEs on null dnRegistration. (stevel)

HDFS-877. Client-driven block verification not functioning. (Todd

Lipcon via hairong)

HDFS-630. In DFSOutputStream.nextBlockOutputStream(), the client can

exclude specific datanodes when locating the next block.

(Cosmin Lehene via Stack)

HDFS-922. Remove unnecessary semicolon added by HDFS-877 that causes

problems for Eclipse compilation. (jghoman)

HDFS-927 DFSInputStream retries too many times for new block locations

(Todd Lipcon via Stack)

HDFS-938. Replace calls to UGI.getUserName() with UGI.getShortUserName()

(jghoman)

HDFS-894. DatanodeID.ipcPort is not updated when existing node

re-registers. (Todd Lipcon via tomwhite)

HDFS-965. Split TestDelegationToken in to two parts and fix configuration

to allow proxy users in the test. (Jitendra Pandey via omalley)

HDFS-999. Secondary namenode should login using kerberos if security is

configured (boryas)

HDFS-856. Hardcoded replication level for new files in fuse-dfs.

(Brian Bockelman via tomwhite)

HDFS-857. Incorrect type for fuse-dfs capacity can cause "df" to return

negative values on 32-bit machines. (Brian Bockelman via tomwhite)

HDFS-858. Incorrect return codes for fuse-dfs. (Brian Bockelman via

tomwhite)

HDFS-859. fuse-dfs utime behavior causes issues with tar.

(Brian Bockelman via tomwhite)

HDFS-861. fuse-dfs does not support O\_RDWR. (Brian Bockelman via tomwhite)

HDFS-961. dfs\_readdir incorrectly parses paths. (Eli Collins via tomwhite)

HDFS-1015. Fix intermittent failure in TestSecurityTokenEditLog.

(Jitendra Nath Pandey via suresh)

HDFS-939. libhdfs test is broken. (Eli Collins via tomwhite)

HDFS-1074. hdfsproxy: Fix bugs in TestProxyUtil. (Srikanth Sundarrajan

via szetszwo)

HDFS-481. hdfsproxy: Bug Fixes + HdfsProxy to use proxy user to

impresonate the real user. (Srikanth Sundarrajan via szetszwo)

HDFS-482. Move HsftpFileSystem's ssl.client.do.not.authenticate.server

configuration setting to ssl-client.xml. (Srikanth Sundarrajan via

szetszwo)

HDFS-1010. hdfsproxy: Retrieve groups from UnixUserGroupInformation

instead of LdapEntry. (Srikanth Sundarrajan via szetszwo)

HDFS-466. hdfs\_write infinite loop when dfs fails and cannot write

files > 2 GB. (Pete Wyckoff via tomwhite)

HDFS-651. HDFS Docs - fix listing of docs in the doc menu.

(Corinne Chandel via tomwhite)

HDFS-1014. Error in reading delegation tokens from edit logs.

(Jitendra Nath Pandey via jhoman)

HDFS-1088. Prevent renaming a symbolik link to its target.

(Eli Collins via suresh)

HDFS-966. NameNode does not recovers lease when it is in safemode.

(dhruba)

HDFS-833. Datanode shutdown should log problems with Storage.unlockAll()

(Steve Loughran via dhruba)

HDFS-1101. TestDiskError.testLocalDirs() fails. (cdouglas via jghoman)

HDFS-1031. Enhance the webUi to list a few of the corrupted files in HDFS.

(Andre Orian via dhruba)

HDFS-1078. Create static and dynamic versions of libhdfs.

(Sam Rash via dhruba)

HDFS-1104. Fsck triggers full GC on NameNode. (hairong)

HDFS-1141. Closing a file is successful only if the client still has a

valid lease. (Todd Lipcon via dhruba)

HDFS-1138. Prevent erroneous updation of modification time of a directory

when fsimage loads. (Dmytro Molkov via dhruba)

HDFS-1000. Updates libhdfs to the new API for UGI (ddas)

HDFS-609. Create a file with the append flag does not work in HDFS.

(tomwhite)

HDFS-1255. Fix failing test-libhdfs.sh test. (tomwhite)

HDFS-1256. libhdfs is missing from the tarball. (tomwhite)

HDFS-1057. Concurrent readers hit ChecksumExceptions if following a

writer to very end of file. (sam rash via hairong)

HDFS-1212. Harmonize HDFS JAR library versions with Common. (tomwhite)

HDFS-1159. clean-cache target removes wrong ivy cache (cos)

HDFS-1193. -mvn-system-deploy target is broken which inturn fails the

mvn-deploy task leading to unstable mapreduce build (Giridharan

Kesavan via cos)

HDFS-1299. 'compile-fault-inject' never should be called directly. (cos)

HDFS-1311. Running tests with 'testcase' cause triple execution of the

same test case (Cos)

HDFS-1267. fuse-dfs does not compile. (Devaraj Das via tomwhite)

HDFS-1598. Directory listing on hftp:// does not show .\*.crc files.

(szetszwo)

HDFS-1750. ListPathsServlet should not use HdfsFileStatus.getLocalName()

to get file name since it may return an empty string. (szetszwo)

Release 0.20.3 - Unreleased

IMPROVEMENTS

BUG FIXES

HDFS-1041. DFSClient.getFileChecksum(..) should retry if connection to

the first datanode fails. (szetszwo)

HDFS-909. Wait until edits syncing is finishes before purging edits.

(Todd Lipcon via shv)

HDFS-1258. Clearing namespace quota on "/" corrupts fs image.

(Aaron T. Myers via szetszwo)

HDFS-1406. TestCLI fails on Ubuntu with default /etc/hosts. (cos)

Release 0.20.203.0 - 2011-5-11

IMPROVEMENTS

HADOOP-7259. Contrib modules should include the build.properties from

the enclosing hadoop directory. (omalley)

BUG FIXES

HDFS-132. Fix namenode to not report files deleted metrics for deletions

done while replaying edits during startup. (suresh & shv)

HDFS-955. New implementation of saveNamespace() to avoid loss of edits

when name-node fails during saving. (shv)

Release 0.20.2 - 2009-09-01

IMPROVEMENTS

HDFS-737. Add full path name of the file to the block information and

summary of total number of files, blocks, live and deadnodes to

metasave output. (Jitendra Nath Pandey via suresh)

HDFS-919. Create test to validate the BlocksVerified metric (Gary Murry

via cos)

HDFS-907. Add tests for getBlockLocations and totalLoad metrics.

(Ravi Phulari via cos)

BUG FIXES

HDFS-686. NullPointerException is thrown while merging edit log and image.

(hairong)

HDFS-677. Rename failure when both source and destination quota exceeds

results in deletion of source. (suresh)

HDFS-709. Fix TestDFSShell failure due to rename bug introduced by

HDFS-677. (suresh)

HDFS-579. Fix DfsTask to follow the semantics of 0.19, regarding non-zero

return values as failures. (Christian Kunz via cdouglas)

HDFS-723. Fix deadlock in DFSClient#DFSOutputStream. (hairong)

HDFS-596. Fix memory leak in hdfsFreeFileInfo() for libhdfs.

(Zhang Bingjun via dhruba)

HDFS-185. Disallow chown, chgrp, chmod, setQuota, and setSpaceQuota when

name-node is in safemode. (Ravi Phulari via shv)

HDFS-187. Initialize secondary namenode http address in TestStartup.

(Todd Lipcon via szetszwo)

HDFS-464. Fix memory leaks in libhdfs. (Christian Kunz via suresh)

HDFS-1377. Quota bug for partial blocks allows quotas to be violated. (eli)

Release 0.20.1 - 2009-09-01

IMPROVEMENTS

HDFS-438. Improve help message for space quota command. (Raghu Angadi)

BUG FIXES

HDFS-167. Fix a bug in DFSClient that caused infinite retries on write.

(Bill Zeller via szetszwo)

HDFS-527. Remove/deprecate unnecessary DFSClient constructors. (szetszwo)

HDFS-525. The SimpleDateFormat object in ListPathsServlet is not thread

safe. (Suresh Srinivas and cdouglas)

HDFS-761. Fix failure to process rename operation from edits log due to

quota verification. (suresh)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs-httpfs/target/test-classes/classutils.txt**

dummy

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs-httpfs/src/test/resources/classutils.txt**

dummy

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/CMakeLists.txt**

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cmake\_minimum\_required(VERSION 2.6 FATAL\_ERROR)

set(CMAKE\_BUILD\_TYPE, Release)

include(../../../../../hadoop-common-project/hadoop-common/src/JNIFlags.cmake NO\_POLICY\_SCOPE)

include(CheckFunctionExists)

CHECK\_FUNCTION\_EXISTS(fcloseall HAVE\_FCLOSEALL)

function(output\_directory TGT DIR)

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

RUNTIME\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

ARCHIVE\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

LIBRARY\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

endfunction(output\_directory TGT DIR)

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -g -Wall -O2 -D\_GNU\_SOURCE")

# note: can't enable -D\_LARGEFILE: see MAPREDUCE-4258

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -D\_REENTRANT")

include\_directories(

${CMAKE\_CURRENT\_SOURCE\_DIR}

${CMAKE\_BINARY\_DIR}

main/native/container-executor

main/native/container-executor/impl

)

CONFIGURE\_FILE(${CMAKE\_SOURCE\_DIR}/config.h.cmake ${CMAKE\_BINARY\_DIR}/config.h)

add\_library(container

main/native/container-executor/impl/configuration.c

main/native/container-executor/impl/container-executor.c

)

add\_executable(container-executor

main/native/container-executor/impl/main.c

)

target\_link\_libraries(container-executor

container

)

output\_directory(container-executor target/usr/local/bin)

add\_executable(test-container-executor

main/native/container-executor/test/test-container-executor.c

)

target\_link\_libraries(test-container-executor

container

)

output\_directory(test-container-executor target/usr/local/bin)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-common-project/hadoop-common/src/CMakeLists.txt**

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#

cmake\_minimum\_required(VERSION 2.6 FATAL\_ERROR)

# Default to release builds

set(CMAKE\_BUILD\_TYPE, Release)

include(JNIFlags.cmake NO\_POLICY\_SCOPE)

# Compile a library with both shared and static variants

function(add\_dual\_library LIBNAME)

add\_library(${LIBNAME} SHARED ${ARGN})

add\_library(${LIBNAME}\_static STATIC ${ARGN})

set\_target\_properties(${LIBNAME}\_static PROPERTIES OUTPUT\_NAME ${LIBNAME})

endfunction(add\_dual\_library)

# Link both a static and a dynamic target against some libraries

function(target\_link\_dual\_libraries LIBNAME)

target\_link\_libraries(${LIBNAME} ${ARGN})

target\_link\_libraries(${LIBNAME}\_static ${ARGN})

endfunction(target\_link\_dual\_libraries)

function(output\_directory TGT DIR)

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

RUNTIME\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

ARCHIVE\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

LIBRARY\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

endfunction(output\_directory TGT DIR)

function(dual\_output\_directory TGT DIR)

output\_directory(${TGT} "${DIR}")

output\_directory(${TGT}\_static "${DIR}")

endfunction(dual\_output\_directory TGT DIR)

#

# This macro alters the behavior of find\_package and find\_library.

# It does this by setting the CMAKE\_FIND\_LIBRARY\_SUFFIXES global variable.

# You should save that variable before calling this function and restore it

# after you have accomplished your goal.

#

# The behavior is altered in two ways:

# 1. We always find shared libraries, never static;

# 2. We find shared libraries with the given version number.

#

# On Windows this function is a no-op. Windows does not encode

# version number information information into library path names.

#

macro(set\_find\_shared\_library\_version LVERS)

IF(${CMAKE\_SYSTEM\_NAME} MATCHES "Darwin")

# Mac OS uses .dylib

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ".${LVERS}.dylib")

ELSEIF(${CMAKE\_SYSTEM\_NAME} MATCHES "FreeBSD")

# FreeBSD has always .so installed.

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ".so")

ELSEIF(${CMAKE\_SYSTEM\_NAME} MATCHES "Windows")

# Windows doesn't support finding shared libraries by version.

ELSE()

# Most UNIX variants use .so

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ".so.${LVERS}")

ENDIF()

endmacro(set\_find\_shared\_library\_version LVERS)

#

# Alter the behavior of find\_package and find\_library so that we find only

# shared libraries without any version suffix. You should save

# CMAKE\_FIND\_LIBRARY\_SUFFIXES before calling this function and restore it

# afterwards.

#

macro(set\_find\_shared\_library\_without\_version)

IF(${CMAKE\_SYSTEM\_NAME} MATCHES "Darwin")

# Mac OS uses .dylib

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ".dylib")

ELSEIF(${CMAKE\_SYSTEM\_NAME} MATCHES "Windows")

# No effect

ELSE()

# Most UNIX variants use .so

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ".so")

ENDIF()

endmacro(set\_find\_shared\_library\_without\_version)

if (NOT GENERATED\_JAVAH)

# Must identify where the generated headers have been placed

MESSAGE(FATAL\_ERROR "You must set the cmake variable GENERATED\_JAVAH")

endif (NOT GENERATED\_JAVAH)

find\_package(JNI REQUIRED)

SET(STORED\_CMAKE\_FIND\_LIBRARY\_SUFFIXES ${CMAKE\_FIND\_LIBRARY\_SUFFIXES})

set\_find\_shared\_library\_version("1")

find\_package(ZLIB REQUIRED)

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ${STORED\_CMAKE\_FIND\_LIBRARY\_SUFFIXES})

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -g -Wall -O2")

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -D\_REENTRANT -D\_GNU\_SOURCE")

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -D\_LARGEFILE\_SOURCE -D\_FILE\_OFFSET\_BITS=64")

set(D main/native/src/org/apache/hadoop)

set(T main/native/src/test/org/apache/hadoop)

GET\_FILENAME\_COMPONENT(HADOOP\_ZLIB\_LIBRARY ${ZLIB\_LIBRARIES} NAME)

SET(STORED\_CMAKE\_FIND\_LIBRARY\_SUFFIXES ${CMAKE\_FIND\_LIBRARY\_SUFFIXES})

set\_find\_shared\_library\_version("1")

find\_package(BZip2 QUIET)

if (BZIP2\_INCLUDE\_DIR AND BZIP2\_LIBRARIES)

GET\_FILENAME\_COMPONENT(HADOOP\_BZIP2\_LIBRARY ${BZIP2\_LIBRARIES} NAME)

set(BZIP2\_SOURCE\_FILES

"${D}/io/compress/bzip2/Bzip2Compressor.c"

"${D}/io/compress/bzip2/Bzip2Decompressor.c")

else (BZIP2\_INCLUDE\_DIR AND BZIP2\_LIBRARIES)

set(BZIP2\_SOURCE\_FILES "")

set(BZIP2\_INCLUDE\_DIR "")

IF(REQUIRE\_BZIP2)

MESSAGE(FATAL\_ERROR "Required bzip2 library and/or header files could not be found.")

ENDIF(REQUIRE\_BZIP2)

endif (BZIP2\_INCLUDE\_DIR AND BZIP2\_LIBRARIES)

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ${STORED\_CMAKE\_FIND\_LIBRARY\_SUFFIXES})

INCLUDE(CheckFunctionExists)

INCLUDE(CheckCSourceCompiles)

INCLUDE(CheckLibraryExists)

CHECK\_FUNCTION\_EXISTS(sync\_file\_range HAVE\_SYNC\_FILE\_RANGE)

CHECK\_FUNCTION\_EXISTS(posix\_fadvise HAVE\_POSIX\_FADVISE)

CHECK\_LIBRARY\_EXISTS(dl dlopen "" NEED\_LINK\_DL)

SET(STORED\_CMAKE\_FIND\_LIBRARY\_SUFFIXES ${CMAKE\_FIND\_LIBRARY\_SUFFIXES})

set\_find\_shared\_library\_version("1")

find\_library(SNAPPY\_LIBRARY

NAMES snappy

PATHS ${CUSTOM\_SNAPPY\_PREFIX} ${CUSTOM\_SNAPPY\_PREFIX}/lib

${CUSTOM\_SNAPPY\_PREFIX}/lib64 ${CUSTOM\_SNAPPY\_LIB})

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ${STORED\_CMAKE\_FIND\_LIBRARY\_SUFFIXES})

find\_path(SNAPPY\_INCLUDE\_DIR

NAMES snappy.h

PATHS ${CUSTOM\_SNAPPY\_PREFIX} ${CUSTOM\_SNAPPY\_PREFIX}/include

${CUSTOM\_SNAPPY\_INCLUDE})

if (SNAPPY\_LIBRARY AND SNAPPY\_INCLUDE\_DIR)

GET\_FILENAME\_COMPONENT(HADOOP\_SNAPPY\_LIBRARY ${SNAPPY\_LIBRARY} NAME)

set(SNAPPY\_SOURCE\_FILES

"${D}/io/compress/snappy/SnappyCompressor.c"

"${D}/io/compress/snappy/SnappyDecompressor.c")

else (SNAPPY\_LIBRARY AND SNAPPY\_INCLUDE\_DIR)

set(SNAPPY\_INCLUDE\_DIR "")

set(SNAPPY\_SOURCE\_FILES "")

IF(REQUIRE\_SNAPPY)

MESSAGE(FATAL\_ERROR "Required snappy library could not be found. SNAPPY\_LIBRARY=${SNAPPY\_LIBRARY}, SNAPPY\_INCLUDE\_DIR=${SNAPPY\_INCLUDE\_DIR}, CUSTOM\_SNAPPY\_INCLUDE\_DIR=${CUSTOM\_SNAPPY\_INCLUDE\_DIR}, CUSTOM\_SNAPPY\_PREFIX=${CUSTOM\_SNAPPY\_PREFIX}, CUSTOM\_SNAPPY\_INCLUDE=${CUSTOM\_SNAPPY\_INCLUDE}")

ENDIF(REQUIRE\_SNAPPY)

endif (SNAPPY\_LIBRARY AND SNAPPY\_INCLUDE\_DIR)

# Find the no-suffix version of libcrypto.

# See HADOOP-11216 for details.

SET(STORED\_CMAKE\_FIND\_LIBRARY\_SUFFIXES ${CMAKE\_FIND\_LIBRARY\_SUFFIXES})

set\_find\_shared\_library\_without\_version()

SET(OPENSSL\_NAME "crypto")

IF(${CMAKE\_SYSTEM\_NAME} MATCHES "Windows")

SET(OPENSSL\_NAME "eay32")

ENDIF()

MESSAGE("CUSTOM\_OPENSSL\_PREFIX = ${CUSTOM\_OPENSSL\_PREFIX}")

find\_library(OPENSSL\_LIBRARY

NAMES ${OPENSSL\_NAME}

PATHS ${CUSTOM\_OPENSSL\_PREFIX} ${CUSTOM\_OPENSSL\_PREFIX}/lib

${CUSTOM\_OPENSSL\_PREFIX}/lib64 ${CUSTOM\_OPENSSL\_LIB} NO\_DEFAULT\_PATH)

find\_library(OPENSSL\_LIBRARY NAMES ${OPENSSL\_NAME})

find\_path(OPENSSL\_INCLUDE\_DIR

NAMES openssl/evp.h

PATHS ${CUSTOM\_OPENSSL\_PREFIX} ${CUSTOM\_OPENSSL\_PREFIX}/include

${CUSTOM\_OPENSSL\_INCLUDE} NO\_DEFAULT\_PATH)

find\_path(OPENSSL\_INCLUDE\_DIR NAMES openssl/evp.h)

SET(CMAKE\_FIND\_LIBRARY\_SUFFIXES ${STORED\_CMAKE\_FIND\_LIBRARY\_SUFFIXES})

SET(USABLE\_OPENSSL 0)

if (OPENSSL\_LIBRARY AND OPENSSL\_INCLUDE\_DIR)

GET\_FILENAME\_COMPONENT(HADOOP\_OPENSSL\_LIBRARY ${OPENSSL\_LIBRARY} NAME)

INCLUDE(CheckCSourceCompiles)

SET(OLD\_CMAKE\_REQUIRED\_INCLUDES ${CMAKE\_REQUIRED\_INCLUDES})

SET(CMAKE\_REQUIRED\_INCLUDES ${OPENSSL\_INCLUDE\_DIR})

CHECK\_C\_SOURCE\_COMPILES("#include \"${OPENSSL\_INCLUDE\_DIR}/openssl/evp.h\"\nint main(int argc, char \*\*argv) { return !EVP\_aes\_256\_ctr; }" HAS\_NEW\_ENOUGH\_OPENSSL)

SET(CMAKE\_REQUIRED\_INCLUDES ${OLD\_CMAKE\_REQUIRED\_INCLUDES})

if(NOT HAS\_NEW\_ENOUGH\_OPENSSL)

MESSAGE("The OpenSSL library installed at ${OPENSSL\_LIBRARY} is too old. You need a version at least new enough to have EVP\_aes\_256\_ctr.")

else(NOT HAS\_NEW\_ENOUGH\_OPENSSL)

SET(USABLE\_OPENSSL 1)

endif(NOT HAS\_NEW\_ENOUGH\_OPENSSL)

endif (OPENSSL\_LIBRARY AND OPENSSL\_INCLUDE\_DIR)

if (USABLE\_OPENSSL)

SET(OPENSSL\_SOURCE\_FILES

"${D}/crypto/OpensslCipher.c"

"${D}/crypto/random/OpensslSecureRandom.c")

else (USABLE\_OPENSSL)

MESSAGE("Cannot find a usable OpenSSL library. OPENSSL\_LIBRARY=${OPENSSL\_LIBRARY}, OPENSSL\_INCLUDE\_DIR=${OPENSSL\_INCLUDE\_DIR}, CUSTOM\_OPENSSL\_INCLUDE\_DIR=${CUSTOM\_OPENSSL\_INCLUDE\_DIR}, CUSTOM\_OPENSSL\_PREFIX=${CUSTOM\_OPENSSL\_PREFIX}, CUSTOM\_OPENSSL\_INCLUDE=${CUSTOM\_OPENSSL\_INCLUDE}")

IF(REQUIRE\_OPENSSL)

MESSAGE(FATAL\_ERROR "Terminating build because require.openssl was specified.")

ENDIF(REQUIRE\_OPENSSL)

SET(OPENSSL\_LIBRARY "")

SET(OPENSSL\_INCLUDE\_DIR "")

SET(OPENSSL\_SOURCE\_FILES "")

endif (USABLE\_OPENSSL)

include\_directories(

${GENERATED\_JAVAH}

main/native/src

${CMAKE\_CURRENT\_SOURCE\_DIR}

${CMAKE\_CURRENT\_SOURCE\_DIR}/src

${CMAKE\_BINARY\_DIR}

${JNI\_INCLUDE\_DIRS}

${ZLIB\_INCLUDE\_DIRS}

${BZIP2\_INCLUDE\_DIR}

${SNAPPY\_INCLUDE\_DIR}

${OPENSSL\_INCLUDE\_DIR}

${D}/util

)

CONFIGURE\_FILE(${CMAKE\_SOURCE\_DIR}/config.h.cmake ${CMAKE\_BINARY\_DIR}/config.h)

add\_executable(test\_bulk\_crc32

${D}/util/bulk\_crc32.c

${T}/util/test\_bulk\_crc32.c

)

SET(CMAKE\_BUILD\_WITH\_INSTALL\_RPATH TRUE)

add\_dual\_library(hadoop

main/native/src/exception.c

${D}/io/compress/lz4/Lz4Compressor.c

${D}/io/compress/lz4/Lz4Decompressor.c

${D}/io/compress/lz4/lz4.c

${D}/io/compress/lz4/lz4hc.c

${SNAPPY\_SOURCE\_FILES}

${OPENSSL\_SOURCE\_FILES}

${D}/io/compress/zlib/ZlibCompressor.c

${D}/io/compress/zlib/ZlibDecompressor.c

${BZIP2\_SOURCE\_FILES}

${D}/io/nativeio/NativeIO.c

${D}/io/nativeio/errno\_enum.c

${D}/io/nativeio/file\_descriptor.c

${D}/io/nativeio/SharedFileDescriptorFactory.c

${D}/net/unix/DomainSocket.c

${D}/net/unix/DomainSocketWatcher.c

${D}/security/JniBasedUnixGroupsMapping.c

${D}/security/JniBasedUnixGroupsNetgroupMapping.c

${D}/security/hadoop\_group\_info.c

${D}/security/hadoop\_user\_info.c

${D}/util/NativeCodeLoader.c

${D}/util/NativeCrc32.c

${D}/util/bulk\_crc32.c

)

if (NEED\_LINK\_DL)

set(LIB\_DL dl)

endif (NEED\_LINK\_DL)

IF (${CMAKE\_SYSTEM\_NAME} MATCHES "Linux")

#

# By embedding '$ORIGIN' into the RPATH of libhadoop.so,

# dlopen will look in the directory containing libhadoop.so.

# However, $ORIGIN is not supported by all operating systems.

#

SET\_TARGET\_PROPERTIES(hadoop

PROPERTIES INSTALL\_RPATH "\$ORIGIN/")

ENDIF()

target\_link\_dual\_libraries(hadoop

${LIB\_DL}

${JAVA\_JVM\_LIBRARY}

)

SET(LIBHADOOP\_VERSION "1.0.0")

SET\_TARGET\_PROPERTIES(hadoop PROPERTIES

SOVERSION ${LIBHADOOP\_VERSION})

dual\_output\_directory(hadoop target/usr/local/lib)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-pipes/src/CMakeLists.txt**

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#

cmake\_minimum\_required(VERSION 2.6 FATAL\_ERROR)

find\_package(OpenSSL REQUIRED)

set(CMAKE\_BUILD\_TYPE, Release)

set(PIPES\_FLAGS "-g -Wall -O2 -D\_REENTRANT -D\_GNU\_SOURCE")

set(PIPES\_FLAGS "${PIPES\_FLAGS} -D\_LARGEFILE\_SOURCE -D\_FILE\_OFFSET\_BITS=64")

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} ${PIPES\_FLAGS}")

set(CMAKE\_CXX\_FLAGS "${CMAKE\_CXX\_FLAGS} ${PIPES\_FLAGS}")

include(../../../hadoop-common-project/hadoop-common/src/JNIFlags.cmake NO\_POLICY\_SCOPE)

function(output\_directory TGT DIR)

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

RUNTIME\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

ARCHIVE\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

LIBRARY\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

endfunction(output\_directory TGT DIR)

include\_directories(

main/native/utils/api

main/native/pipes/api

${CMAKE\_CURRENT\_SOURCE\_DIR}

${OPENSSL\_INCLUDE\_DIR}

)

# Example programs

add\_executable(wordcount-simple main/native/examples/impl/wordcount-simple.cc)

target\_link\_libraries(wordcount-simple hadooppipes hadooputils)

output\_directory(wordcount-simple examples)

add\_executable(wordcount-part main/native/examples/impl/wordcount-part.cc)

target\_link\_libraries(wordcount-part hadooppipes hadooputils)

output\_directory(wordcount-part examples)

add\_executable(wordcount-nopipe main/native/examples/impl/wordcount-nopipe.cc)

target\_link\_libraries(wordcount-nopipe hadooppipes hadooputils)

output\_directory(wordcount-nopipe examples)

add\_executable(pipes-sort main/native/examples/impl/sort.cc)

target\_link\_libraries(pipes-sort hadooppipes hadooputils)

output\_directory(pipes-sort examples)

add\_library(hadooputils STATIC

main/native/utils/impl/StringUtils.cc

main/native/utils/impl/SerialUtils.cc

)

add\_library(hadooppipes STATIC

main/native/pipes/impl/HadoopPipes.cc

)

target\_link\_libraries(hadooppipes

${OPENSSL\_LIBRARIES}

pthread

)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/CMakeLists.txt**

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#

cmake\_minimum\_required(VERSION 2.6 FATAL\_ERROR)

# Default to release builds

set(CMAKE\_BUILD\_TYPE, Release)

include(../../../hadoop-common-project/hadoop-common/src/JNIFlags.cmake NO\_POLICY\_SCOPE)

# Compile a library with both shared and static variants

function(add\_dual\_library LIBNAME)

add\_library(${LIBNAME} SHARED ${ARGN})

add\_library(${LIBNAME}\_static STATIC ${ARGN})

set\_target\_properties(${LIBNAME}\_static PROPERTIES OUTPUT\_NAME ${LIBNAME})

endfunction(add\_dual\_library)

# Link both a static and a dynamic target against some libraries

function(target\_link\_dual\_libraries LIBNAME)

target\_link\_libraries(${LIBNAME} ${ARGN})

target\_link\_libraries(${LIBNAME}\_static ${ARGN})

endfunction(target\_link\_dual\_libraries)

function(output\_directory TGT DIR)

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

RUNTIME\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

ARCHIVE\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

SET\_TARGET\_PROPERTIES(${TGT} PROPERTIES

LIBRARY\_OUTPUT\_DIRECTORY "${CMAKE\_BINARY\_DIR}/${DIR}")

endfunction(output\_directory TGT DIR)

function(dual\_output\_directory TGT DIR)

output\_directory(${TGT} "${DIR}")

output\_directory(${TGT}\_static "${DIR}")

endfunction(dual\_output\_directory TGT DIR)

# Flatten a list into a string.

function(FLATTEN\_LIST INPUT SEPARATOR OUTPUT)

string (REPLACE ";" "${SEPARATOR}" \_TMPS "${INPUT}")

set (${OUTPUT} "${\_TMPS}" PARENT\_SCOPE)

endfunction()

# Check to see if our compiler and linker support the \_\_thread attribute.

# On Linux and some other operating systems, this is a more efficient

# alternative to POSIX thread local storage.

INCLUDE(CheckCSourceCompiles)

CHECK\_C\_SOURCE\_COMPILES("int main(void) { static \_\_thread int i = 0; return 0; }" HAVE\_BETTER\_TLS)

# Check to see if we have Intel SSE intrinsics.

CHECK\_C\_SOURCE\_COMPILES("#include <emmintrin.h>\nint main(void) { \_\_m128d sum0 = \_mm\_set\_pd(0.0,0.0); return 0; }" HAVE\_INTEL\_SSE\_INTRINSICS)

# Check if we need to link dl library to get dlopen.

# dlopen on Linux is in separate library but on FreeBSD its in libc

INCLUDE(CheckLibraryExists)

CHECK\_LIBRARY\_EXISTS(dl dlopen "" NEED\_LINK\_DL)

find\_package(JNI REQUIRED)

if (NOT GENERATED\_JAVAH)

# Must identify where the generated headers have been placed

MESSAGE(FATAL\_ERROR "You must set the CMake variable GENERATED\_JAVAH")

endif (NOT GENERATED\_JAVAH)

if (WIN32)

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} /O2")

# Set warning level 4.

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} /W4")

# Skip "unreferenced formal parameter".

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} /wd4100")

# Skip "conditional expression is constant".

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} /wd4127")

# Skip deprecated POSIX function warnings.

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -D\_CRT\_NONSTDC\_NO\_DEPRECATE")

# Skip CRT non-secure function warnings. If we can convert usage of

# strerror, getenv and ctime to their secure CRT equivalents, then we can

# re-enable the CRT non-secure function warnings.

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -D\_CRT\_SECURE\_NO\_WARNINGS")

# Omit unneeded headers.

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -DWIN32\_LEAN\_AND\_MEAN")

set(OS\_DIR main/native/libhdfs/os/windows)

set(OUT\_DIR target/bin)

else (WIN32)

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -g -Wall -O2")

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -D\_REENTRANT -D\_GNU\_SOURCE")

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} -D\_LARGEFILE\_SOURCE -D\_FILE\_OFFSET\_BITS=64")

set(OS\_DIR main/native/libhdfs/os/posix)

set(OS\_LINK\_LIBRARIES pthread)

set(OUT\_DIR target/usr/local/lib)

endif (WIN32)

include\_directories(

${GENERATED\_JAVAH}

${CMAKE\_CURRENT\_SOURCE\_DIR}

${CMAKE\_BINARY\_DIR}

${JNI\_INCLUDE\_DIRS}

main/native

main/native/libhdfs

${OS\_DIR}

)

set(\_FUSE\_DFS\_VERSION 0.1.0)

CONFIGURE\_FILE(${CMAKE\_SOURCE\_DIR}/config.h.cmake ${CMAKE\_BINARY\_DIR}/config.h)

add\_dual\_library(hdfs

main/native/libhdfs/exception.c

main/native/libhdfs/jni\_helper.c

main/native/libhdfs/hdfs.c

main/native/libhdfs/common/htable.c

${OS\_DIR}/mutexes.c

${OS\_DIR}/thread\_local\_storage.c

)

if (NEED\_LINK\_DL)

set(LIB\_DL dl)

endif(NEED\_LINK\_DL)

target\_link\_dual\_libraries(hdfs

${JAVA\_JVM\_LIBRARY}

${LIB\_DL}

${OS\_LINK\_LIBRARIES}

)

dual\_output\_directory(hdfs ${OUT\_DIR})

set(LIBHDFS\_VERSION "0.0.0")

set\_target\_properties(hdfs PROPERTIES

SOVERSION ${LIBHDFS\_VERSION})

add\_executable(test\_libhdfs\_ops

main/native/libhdfs/test/test\_libhdfs\_ops.c

)

target\_link\_libraries(test\_libhdfs\_ops

hdfs

${JAVA\_JVM\_LIBRARY}

)

add\_executable(test\_libhdfs\_read

main/native/libhdfs/test/test\_libhdfs\_read.c

)

target\_link\_libraries(test\_libhdfs\_read

hdfs

${JAVA\_JVM\_LIBRARY}

)

add\_executable(test\_libhdfs\_write

main/native/libhdfs/test/test\_libhdfs\_write.c

)

target\_link\_libraries(test\_libhdfs\_write

hdfs

${JAVA\_JVM\_LIBRARY}

)

add\_library(native\_mini\_dfs

main/native/libhdfs/native\_mini\_dfs.c

)

target\_link\_libraries(native\_mini\_dfs

hdfs

)

add\_executable(test\_native\_mini\_dfs

main/native/libhdfs/test\_native\_mini\_dfs.c

)

target\_link\_libraries(test\_native\_mini\_dfs

native\_mini\_dfs

)

add\_executable(test\_libhdfs\_threaded

main/native/libhdfs/expect.c

main/native/libhdfs/test\_libhdfs\_threaded.c

${OS\_DIR}/thread.c

)

target\_link\_libraries(test\_libhdfs\_threaded

hdfs

native\_mini\_dfs

${OS\_LINK\_LIBRARIES}

)

add\_executable(test\_libhdfs\_zerocopy

main/native/libhdfs/expect.c

main/native/libhdfs/test/test\_libhdfs\_zerocopy.c

)

target\_link\_libraries(test\_libhdfs\_zerocopy

hdfs

native\_mini\_dfs

${OS\_LINK\_LIBRARIES}

)

# Skip vecsum on Windows. This could be made to work in the future by

# introducing an abstraction layer over the sys/mman.h functions.

if (NOT WIN32)

add\_executable(test\_libhdfs\_vecsum

main/native/libhdfs/test/vecsum.c

)

if (${CMAKE\_SYSTEM\_NAME} MATCHES "Darwin")

target\_link\_libraries(test\_libhdfs\_vecsum

hdfs

pthread

)

else (${CMAKE\_SYSTEM\_NAME} MATCHES "Darwin")

target\_link\_libraries(test\_libhdfs\_vecsum

hdfs

pthread

rt

)

endif (${CMAKE\_SYSTEM\_NAME} MATCHES "Darwin")

endif(NOT WIN32)

IF(REQUIRE\_LIBWEBHDFS)

add\_subdirectory(contrib/libwebhdfs)

ENDIF(REQUIRE\_LIBWEBHDFS)

add\_subdirectory(main/native/fuse-dfs)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/contrib/libwebhdfs/CMakeLists.txt**

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#

find\_package(CURL REQUIRED)

set(CMAKE\_MODULE\_PATH ${CMAKE\_MODULE\_PATH}

"${CMAKE\_SOURCE\_DIR}/contrib/libwebhdfs/resources/")

find\_package(Jansson REQUIRED)

include\_directories(${JANSSON\_INCLUDE\_DIR})

add\_dual\_library(webhdfs

src/hdfs\_web.c

src/hdfs\_http\_client.c

src/hdfs\_http\_query.c

src/hdfs\_json\_parser.c

../../main/native/libhdfs/exception.c

../../main/native/libhdfs/jni\_helper.c

)

target\_link\_dual\_libraries(webhdfs

${JAVA\_JVM\_LIBRARY}

${CURL\_LIBRARY}

${JANSSON\_LIBRARY}

pthread

)

dual\_output\_directory(webhdfs target)

set(LIBWEBHDFS\_VERSION "0.0.0")

set\_target\_properties(webhdfs PROPERTIES

SOVERSION ${LIBWEBHDFS\_VERSION})

add\_executable(test\_libwebhdfs\_ops

src/test\_libwebhdfs\_ops.c

)

target\_link\_libraries(test\_libwebhdfs\_ops

webhdfs

native\_mini\_dfs

)

add\_executable(test\_libwebhdfs\_read

src/test\_libwebhdfs\_read.c

)

target\_link\_libraries(test\_libwebhdfs\_read

webhdfs

)

add\_executable(test\_libwebhdfs\_write

src/test\_libwebhdfs\_write.c

)

target\_link\_libraries(test\_libwebhdfs\_write

webhdfs

)

add\_executable(test\_libwebhdfs\_threaded

src/test\_libwebhdfs\_threaded.c

)

target\_link\_libraries(test\_libwebhdfs\_threaded

webhdfs

native\_mini\_dfs

pthread

)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/main/native/fuse-dfs/CMakeLists.txt**

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#

set(CMAKE\_SKIP\_RPATH TRUE)

# Find Linux FUSE

IF (${CMAKE\_SYSTEM\_NAME} MATCHES "Linux")

find\_package(PkgConfig REQUIRED)

pkg\_check\_modules(FUSE fuse)

IF(FUSE\_FOUND)

FLATTEN\_LIST("${FUSE\_CFLAGS}" " " FUSE\_CFLAGS)

FLATTEN\_LIST("${FUSE\_LDFLAGS}" " " FUSE\_LDFLAGS)

set(CMAKE\_C\_FLAGS "${CMAKE\_C\_FLAGS} ${FUSE\_CFLAGS}")

set(CMAKE\_LD\_FLAGS "${CMAKE\_LD\_FLAGS} ${FUSE\_LDFLAGS}")

MESSAGE(STATUS "Building Linux FUSE client.")

include\_directories(${FUSE\_INCLUDE\_DIRS})

ELSE(FUSE\_FOUND)

MESSAGE(STATUS "Failed to find Linux FUSE libraries or include files. Will not build FUSE client.")

ENDIF(FUSE\_FOUND)

ELSE (${CMAKE\_SYSTEM\_NAME} MATCHES "Linux")

MESSAGE(STATUS "Non-Linux system detected. Will not build FUSE client.")

ENDIF (${CMAKE\_SYSTEM\_NAME} MATCHES "Linux")

IF(FUSE\_FOUND)

add\_library(posix\_util

../util/posix\_util.c

)

add\_executable(fuse\_dfs

fuse\_dfs.c

fuse\_options.c

fuse\_connect.c

fuse\_impls\_access.c

fuse\_impls\_chmod.c

fuse\_impls\_chown.c

fuse\_impls\_create.c

fuse\_impls\_flush.c

fuse\_impls\_getattr.c

fuse\_impls\_mkdir.c

fuse\_impls\_mknod.c

fuse\_impls\_open.c

fuse\_impls\_read.c

fuse\_impls\_readdir.c

fuse\_impls\_release.c

fuse\_impls\_rename.c

fuse\_impls\_rmdir.c

fuse\_impls\_statfs.c

fuse\_impls\_symlink.c

fuse\_impls\_truncate.c

fuse\_impls\_unlink.c

fuse\_impls\_utimens.c

fuse\_impls\_write.c

fuse\_init.c

fuse\_stat\_struct.c

fuse\_trash.c

fuse\_users.c

)

target\_link\_libraries(fuse\_dfs

${FUSE\_LIBRARIES}

${JAVA\_JVM\_LIBRARY}

hdfs

m

pthread

rt

)

add\_executable(test\_fuse\_dfs

test/test\_fuse\_dfs.c

test/fuse\_workload.c

)

target\_link\_libraries(test\_fuse\_dfs

${FUSE\_LIBRARIES}

native\_mini\_dfs

posix\_util

pthread

)

ELSE(FUSE\_FOUND)

IF(REQUIRE\_FUSE)

MESSAGE(FATAL\_ERROR "Required component fuse\_dfs could not be built.")

ENDIF(REQUIRE\_FUSE)

ENDIF(FUSE\_FOUND)

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/target/test-classes/hadoop-datanode-dir.txt**

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# Similar to hadoop-dfs-dir.txt, except this is used for a datanode layout

# upgrade test.

# Uncomment the following line to produce checksum info for a new DFS image.

#printChecksums

/small 2976363016

overallCRC 4099869518

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/test/resources/hadoop-datanode-dir.txt**

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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/target/test-classes/hadoop-dfs-dir.txt**

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#

# This is a readme for hadoop-version-dfs-dir.tgz and hadoop-dfs-dir.txt.

#

# See HADOOP-1629 for more info if needed.

# These two files are used by unit test TestDFSUpgradeFromImage.java

#

# hadoop-dfs-dir.txt :

# ---------------------

# Along with this description this file contains the expected files and

# checksums or the files in the upgraded DFS.

#

# The original DFS directory was created with various types of files and with

# some recoverable errors (i.e. corrupt or missing .crc files).

#

# A similar set of files exist in two different DFS directories.

# For e.g. "top-dir-1Mb-512" contains files created with dfs.blocksize of 1Mb

# and io.bytes.per.checksum of 512.

#

# To generate checksum info for new files :

# ---------------------------------------

# Uncomment the last coment (starts with "printChecksums") and run the

# test again. When the test sees this line, it prints the checksum

# information that should replace the checksum information in

# this file. When run in this mode, the test will fail with a descriptive IOException.

#

# Next, extract the checksum info from the test log like this:

# sed -n 's/.\*CRC info for reference file : //p' test-log.txt >> this\_file

# This will append a new list of files and checksums to this file. Be sure to remove the existing checksum info.

#

# For your reference, the format of the checksum info below is "filename whitespace\*\twhitespace\* checksum\n"

#

# Uncomment the following line to produce checksum info for a new DFS image.

#printChecksums

/1kb-multiple-checksum-blocks-64-16 191893480

/top-dir-120000-60/1Mb-file 4079112547

/top-dir-120000-60/4k-file 3716287280

/top-dir-120000-60/5Mb-file 2563834633

/top-dir-120000-60/directory1/500thousand-file 3036538664

/top-dir-120000-60/directory1/file-with-corrupt-crc 1984689737

/top-dir-120000-60/directory1/file-with-no-crc 4004594475

/top-dir-120000-60/directory1/zero1 0

/top-dir-120000-60/zerolen 0

/top-dir-1Mb-512/1Mb-file 4079112547

/top-dir-1Mb-512/4k-file 3716287280

/top-dir-1Mb-512/5Mb-file 2563834633

/top-dir-1Mb-512/directory1/500thousand-file 3036538664

/top-dir-1Mb-512/directory1/file-with-corrupt-crc 1984689737

/top-dir-1Mb-512/directory1/file-with-no-crc 4004594475

/top-dir-1Mb-512/directory1/zero1 0

/top-dir-1Mb-512/zerolen 0

overallCRC 1419480698

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/test/resources/hadoop-dfs-dir.txt**

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#

# This is a readme for hadoop-version-dfs-dir.tgz and hadoop-dfs-dir.txt.

#

# See HADOOP-1629 for more info if needed.

# These two files are used by unit test TestDFSUpgradeFromImage.java

#

# hadoop-dfs-dir.txt :

# ---------------------

# Along with this description this file contains the expected files and

# checksums or the files in the upgraded DFS.

#

# The original DFS directory was created with various types of files and with

# some recoverable errors (i.e. corrupt or missing .crc files).

#

# A similar set of files exist in two different DFS directories.

# For e.g. "top-dir-1Mb-512" contains files created with dfs.blocksize of 1Mb

# and io.bytes.per.checksum of 512.

#

# To generate checksum info for new files :

# ---------------------------------------

# Uncomment the last coment (starts with "printChecksums") and run the

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# this file. When run in this mode, the test will fail with a descriptive IOException.

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#

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#

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/top-dir-120000-60/5Mb-file 2563834633

/top-dir-120000-60/directory1/500thousand-file 3036538664

/top-dir-120000-60/directory1/file-with-corrupt-crc 1984689737

/top-dir-120000-60/directory1/file-with-no-crc 4004594475

/top-dir-120000-60/directory1/zero1 0

/top-dir-120000-60/zerolen 0

/top-dir-1Mb-512/1Mb-file 4079112547

/top-dir-1Mb-512/4k-file 3716287280

/top-dir-1Mb-512/5Mb-file 2563834633

/top-dir-1Mb-512/directory1/500thousand-file 3036538664

/top-dir-1Mb-512/directory1/file-with-corrupt-crc 1984689737

/top-dir-1Mb-512/directory1/file-with-no-crc 4004594475

/top-dir-1Mb-512/directory1/zero1 0

/top-dir-1Mb-512/zerolen 0

overallCRC 1419480698

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/hadoop-st.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/hadoop-st.png**



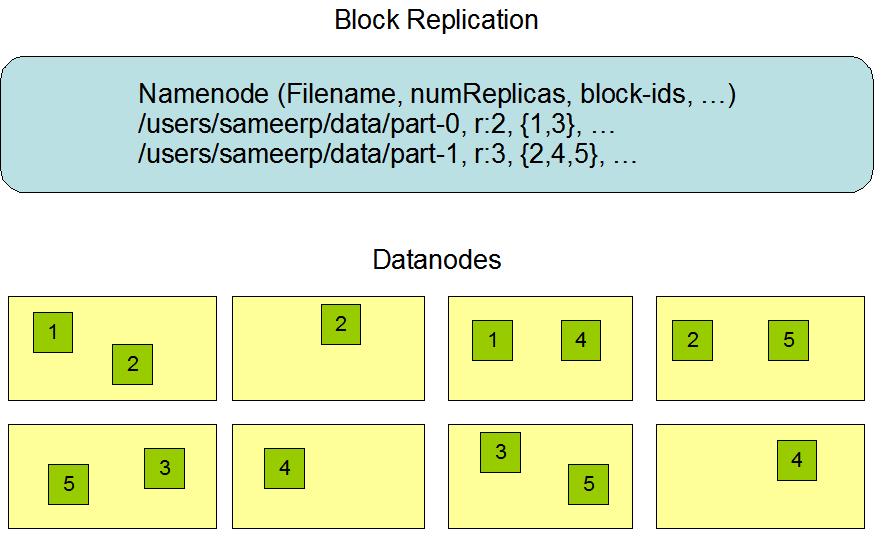
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-common-project/hadoop-common/src/main/docs/src/documentation/resources/images/hdfsarchitecture.png**



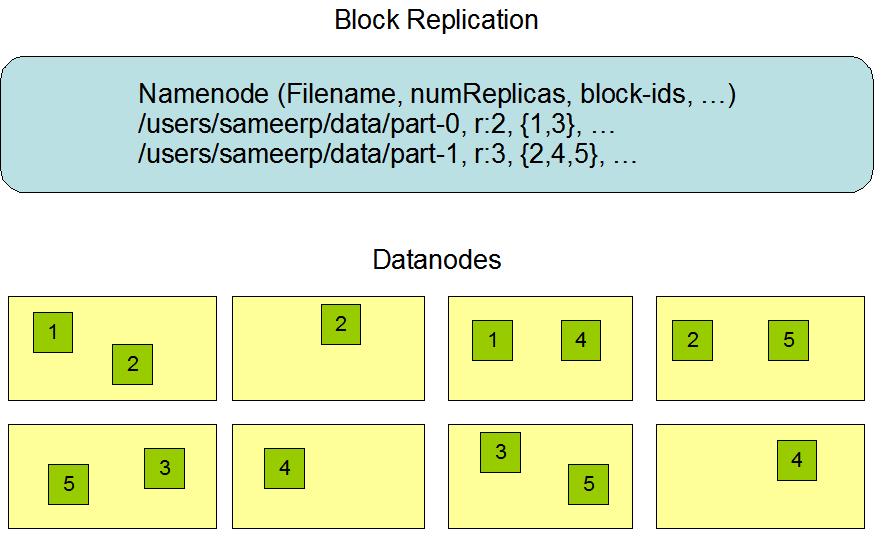
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/site/resources/images/hdfsarchitecture.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-common-project/hadoop-common/src/main/docs/src/documentation/resources/images/hdfsdatanodes.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/site/resources/images/hdfsdatanodes.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-maven-plugins/target/test-classes/META-INF/LICENSE.txt**

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For portions of the native implementation of slicing-by-8 CRC calculation

in src/main/native/src/org/apache/hadoop/util:

/\*\*

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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\*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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FindBugs-jsr305 1.3.9

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For portions of the native implementation of slicing-by-8 CRC calculation

in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

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For portions of the native implementation of slicing-by-8 CRC calculation

in src/main/native/src/org/apache/hadoop/util:

/\*\*

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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\*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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For portions of the native implementation of slicing-by-8 CRC calculation

in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/jquery-1.10.2.min.js

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For portions of the native implementation of slicing-by-8 CRC calculation

in src/main/native/src/org/apache/hadoop/util:

/\*\*

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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\*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/jquery.js

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FindBugs-jsr305 1.3.9

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For portions of the native implementation of slicing-by-8 CRC calculation

in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/\*

LZ4 - Fast LZ compression algorithm

Header File

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:

hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-full-2.0.0.min.js

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/dust-helpers-1.1.1.min.js

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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\* HOMEPAGE:

\* http://www.bouncycastle.org/

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\* HOMEPAGE:

\* http://code.google.com/p/snappy/

This product optionally depends on 'JBoss Marshalling', an alternative Java

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\* HOMEPAGE:

\* http://www.jboss.org/jbossmarshalling

This product optionally depends on 'Caliper', Google's micro-

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\* HOMEPAGE:

\* http://code.google.com/p/caliper/

This product optionally depends on 'Apache Commons Logging', a logging

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\* HOMEPAGE:

\* http://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework, which

can be obtained at:

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\* license/LICENSE.log4j.txt (Apache License 2.0)

\* HOMEPAGE:

\* http://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance

non-blocking XML processor, which can be obtained at:

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\* license/LICENSE.aalto-xml.txt (Apache License 2.0)

\* HOMEPAGE:

\* http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation of

the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

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\* HOMEPAGE:

\* https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java library

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\* HOMEPAGE:

\* https://commons.apache.org/proper/commons-lang/

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\* src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.javacontains test data from http://aspell.net/test/orig/batch0.tab.Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

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\* The Eclipse Public 1.0 License

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------

Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following

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module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modififications

are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

------

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

------

Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

------

Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida,

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This product includes software developed by Apache

PureJavaCrc32C from apache-hadoop-common http://hadoop.apache.org/

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This library containd statically linked libstdc++. This inclusion is allowed by

"GCC RUntime Library Exception"

http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html

== Contributors ==

\* Tatu Saloranta

\* Providing benchmark suite

\* Alec Wysoker

\* Performance and memory usage improvement

The binary distribution of this product bundles binaries of

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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-maven-plugins/target/maven-shared-archive-resources/META-INF/NOTICE.txt**

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The binary distribution of this product bundles binaries of

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-------------------------------------------------------------------------------

This product contains the extensions to Java Collections Framework which has

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\* HOMEPAGE:

\* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/

\* http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/

This product contains a modified version of Robert Harder's Public Domain

Base64 Encoder and Decoder, which can be obtained at:

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\* HOMEPAGE:

\* http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based

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\* license/LICENSE.webbit.txt (BSD License)

\* HOMEPAGE:

\* https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging

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\* HOMEPAGE:

\* http://www.slf4j.org/

This product contains a modified portion of 'ArrayDeque', written by Josh

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This product contains a modified portion of 'Apache Harmony', an open source

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\* HOMEPAGE:

\* http://archive.apache.org/dist/harmony/

This product contains a modified version of Roland Kuhn's ASL2

AbstractNodeQueue, which is based on Dmitriy Vyukov's non-intrusive MPSC queue.

It can be obtained at:

\* LICENSE:

\* license/LICENSE.abstractnodequeue.txt (Public Domain)

\* HOMEPAGE:

\* https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/src/main/java/akka/dispatch/AbstractNodeQueue.java

This product contains a modified portion of 'jbzip2', a Java bzip2 compression

and decompression library written by Matthew J. Francis. It can be obtained at:

\* LICENSE:

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\* HOMEPAGE:

\* https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library to construct

the suffix array and the Burrows-Wheeler transformed string for any input string of

a constant-size alphabet written by Yuta Mori. It can be obtained at:

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\* HOMEPAGE:

\* https://code.google.com/p/libdivsufsort/

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM,

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\* HOMEPAGE:

\* https://github.com/JCTools/JCTools

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\* HOMEPAGE:

\* http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for encoding and

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\* license/LICENSE.compress-lzf.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression

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\* HOMEPAGE:

\* https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression

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\* HOMEPAGE:

\* https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression

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\* HOMEPAGE:

\* https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data

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\* license/LICENSE.protobuf.txt (New BSD License)

\* HOMEPAGE:

\* http://code.google.com/p/protobuf/

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate

a temporary self-signed X.509 certificate when the JVM does not provide the

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\* HOMEPAGE:

\* http://www.bouncycastle.org/

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\* http://code.google.com/p/snappy/

This product optionally depends on 'JBoss Marshalling', an alternative Java

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This product optionally depends on 'Caliper', Google's micro-

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\* http://code.google.com/p/caliper/

This product optionally depends on 'Apache Commons Logging', a logging

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\* http://commons.apache.org/logging/

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\* HOMEPAGE:

\* http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation of

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\* HOMEPAGE:

\* https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java library

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\* HOMEPAGE:

\* https://commons.apache.org/proper/commons-lang/

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\* src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.javacontains test data from http://aspell.net/test/orig/batch0.tab.Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

------

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following

artifacts may be included in the distribution or downloaded when ALPN

module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modififications

are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

------

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

------

Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida,

modified April 2001 by Iris Van den Broeke, Daniel Deville.

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This product includes software developed by Apache

PureJavaCrc32C from apache-hadoop-common http://hadoop.apache.org/

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This library containd statically linked libstdc++. This inclusion is allowed by

"GCC RUntime Library Exception"

http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html

== Contributors ==

\* Tatu Saloranta

\* Providing benchmark suite

\* Alec Wysoker

\* Performance and memory usage improvement

The binary distribution of this product bundles binaries of

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software copyright (c) 1999.

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-maven-plugins/target/classes/META-INF/NOTICE.txt**

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The binary distribution of this product bundles binaries of

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This product contains the extensions to Java Collections Framework which has

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\* HOMEPAGE:

\* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/

\* http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/

This product contains a modified version of Robert Harder's Public Domain

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\* HOMEPAGE:

\* http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based

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\* HOMEPAGE:

\* https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging

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\* HOMEPAGE:

\* http://www.slf4j.org/

This product contains a modified portion of 'ArrayDeque', written by Josh

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This product contains a modified portion of 'Apache Harmony', an open source

Java SE, which can be obtained at:

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\* HOMEPAGE:

\* http://archive.apache.org/dist/harmony/

This product contains a modified version of Roland Kuhn's ASL2

AbstractNodeQueue, which is based on Dmitriy Vyukov's non-intrusive MPSC queue.

It can be obtained at:

\* LICENSE:

\* license/LICENSE.abstractnodequeue.txt (Public Domain)

\* HOMEPAGE:

\* https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/src/main/java/akka/dispatch/AbstractNodeQueue.java

This product contains a modified portion of 'jbzip2', a Java bzip2 compression

and decompression library written by Matthew J. Francis. It can be obtained at:

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\* license/LICENSE.jbzip2.txt (MIT License)

\* HOMEPAGE:

\* https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library to construct

the suffix array and the Burrows-Wheeler transformed string for any input string of

a constant-size alphabet written by Yuta Mori. It can be obtained at:

\* LICENSE:

\* license/LICENSE.libdivsufsort.txt (MIT License)

\* HOMEPAGE:

\* https://code.google.com/p/libdivsufsort/

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM,

which can be obtained at:

\* LICENSE:

\* license/LICENSE.jctools.txt (ASL2 License)

\* HOMEPAGE:

\* https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in

pure Java, which can be obtained at:

\* LICENSE:

\* license/LICENSE.jzlib.txt (BSD style License)

\* HOMEPAGE:

\* http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for encoding and

decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

\* LICENSE:

\* license/LICENSE.compress-lzf.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression

and decompression library written by Adrien Grand. It can be obtained at:

\* LICENSE:

\* license/LICENSE.lz4.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression

and decompression library, which can be obtained at:

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\* license/LICENSE.lzma-java.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression

and decompression library written by William Kinney. It can be obtained at:

\* LICENSE:

\* license/LICENSE.jfastlz.txt (MIT License)

\* HOMEPAGE:

\* https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data

interchange format, which can be obtained at:

\* LICENSE:

\* license/LICENSE.protobuf.txt (New BSD License)

\* HOMEPAGE:

\* http://code.google.com/p/protobuf/

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate

a temporary self-signed X.509 certificate when the JVM does not provide the

equivalent functionality. It can be obtained at:

\* LICENSE:

\* license/LICENSE.bouncycastle.txt (MIT License)

\* HOMEPAGE:

\* http://www.bouncycastle.org/

This product optionally depends on 'Snappy', a compression library produced

by Google Inc, which can be obtained at:

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\* license/LICENSE.snappy.txt (New BSD License)

\* HOMEPAGE:

\* http://code.google.com/p/snappy/

This product optionally depends on 'JBoss Marshalling', an alternative Java

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\* license/LICENSE.jboss-marshalling.txt (GNU LGPL 2.1)

\* HOMEPAGE:

\* http://www.jboss.org/jbossmarshalling

This product optionally depends on 'Caliper', Google's micro-

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\* license/LICENSE.caliper.txt (Apache License 2.0)

\* HOMEPAGE:

\* http://code.google.com/p/caliper/

This product optionally depends on 'Apache Commons Logging', a logging

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\* license/LICENSE.commons-logging.txt (Apache License 2.0)

\* HOMEPAGE:

\* http://commons.apache.org/logging/

This product optionally depends on 'Apache Log4J', a logging framework, which

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\* license/LICENSE.log4j.txt (Apache License 2.0)

\* HOMEPAGE:

\* http://logging.apache.org/log4j/

This product optionally depends on 'Aalto XML', an ultra-high performance

non-blocking XML processor, which can be obtained at:

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\* license/LICENSE.aalto-xml.txt (Apache License 2.0)

\* HOMEPAGE:

\* http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation of

the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

\* LICENSE:

\* license/LICENSE.hpack.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java library

provides utilities for the java.lang API, which can be obtained at:

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\* license/LICENSE.commons-lang.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://commons.apache.org/proper/commons-lang/

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\* src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.javacontains test data from http://aspell.net/test/orig/batch0.tab.Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

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------

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The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following

artifacts may be included in the distribution or downloaded when ALPN

module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modififications

are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

------

OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

------

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The following artifacts are ASL2 licensed. Based on selected classes from

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

------

Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

------

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This product includes software developed by Apache

PureJavaCrc32C from apache-hadoop-common http://hadoop.apache.org/

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This library containd statically linked libstdc++. This inclusion is allowed by

"GCC RUntime Library Exception"

http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html

== Contributors ==

\* Tatu Saloranta

\* Providing benchmark suite

\* Alec Wysoker

\* Performance and memory usage improvement

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This product contains the extensions to Java Collections Framework which has

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\* HOMEPAGE:

\* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/

\* http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/

This product contains a modified version of Robert Harder's Public Domain

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\* HOMEPAGE:

\* http://iharder.sourceforge.net/current/java/base64/

This product contains a modified portion of 'Webbit', an event based

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\* license/LICENSE.webbit.txt (BSD License)

\* HOMEPAGE:

\* https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging

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\* HOMEPAGE:

\* http://www.slf4j.org/

This product contains a modified portion of 'ArrayDeque', written by Josh

Bloch of Google, Inc:

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\* license/LICENSE.deque.txt (Public Domain)

This product contains a modified portion of 'Apache Harmony', an open source

Java SE, which can be obtained at:

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\* HOMEPAGE:

\* http://archive.apache.org/dist/harmony/

This product contains a modified version of Roland Kuhn's ASL2

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It can be obtained at:

\* LICENSE:

\* license/LICENSE.abstractnodequeue.txt (Public Domain)

\* HOMEPAGE:

\* https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/src/main/java/akka/dispatch/AbstractNodeQueue.java

This product contains a modified portion of 'jbzip2', a Java bzip2 compression

and decompression library written by Matthew J. Francis. It can be obtained at:

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\* HOMEPAGE:

\* https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library to construct

the suffix array and the Burrows-Wheeler transformed string for any input string of

a constant-size alphabet written by Yuta Mori. It can be obtained at:

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\* HOMEPAGE:

\* https://code.google.com/p/libdivsufsort/

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM,

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\* license/LICENSE.jctools.txt (ASL2 License)

\* HOMEPAGE:

\* https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in

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\* license/LICENSE.jzlib.txt (BSD style License)

\* HOMEPAGE:

\* http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for encoding and

decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

\* LICENSE:

\* license/LICENSE.compress-lzf.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression

and decompression library written by Adrien Grand. It can be obtained at:

\* LICENSE:

\* license/LICENSE.lz4.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression

and decompression library, which can be obtained at:

\* LICENSE:

\* license/LICENSE.lzma-java.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression

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\* license/LICENSE.jfastlz.txt (MIT License)

\* HOMEPAGE:

\* https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data

interchange format, which can be obtained at:

\* LICENSE:

\* license/LICENSE.protobuf.txt (New BSD License)

\* HOMEPAGE:

\* http://code.google.com/p/protobuf/

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate

a temporary self-signed X.509 certificate when the JVM does not provide the

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\* HOMEPAGE:

\* http://www.bouncycastle.org/

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\* HOMEPAGE:

\* http://code.google.com/p/snappy/

This product optionally depends on 'JBoss Marshalling', an alternative Java

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\* HOMEPAGE:

\* http://www.jboss.org/jbossmarshalling

This product optionally depends on 'Caliper', Google's micro-

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\* HOMEPAGE:

\* http://code.google.com/p/caliper/

This product optionally depends on 'Apache Commons Logging', a logging

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\* HOMEPAGE:

\* http://commons.apache.org/logging/

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\* HOMEPAGE:

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\* HOMEPAGE:

\* http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation of

the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

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\* HOMEPAGE:

\* https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java library

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\* HOMEPAGE:

\* https://commons.apache.org/proper/commons-lang/

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which has the following notices:

\* src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.javacontains test data from http://aspell.net/test/orig/batch0.tab.Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

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------

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The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following

artifacts may be included in the distribution or downloaded when ALPN

module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modififications

are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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The following artifacts are ASL2 licensed.

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org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

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org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

------

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------

Assorted

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Unix systems for simple password protection. Copyright 1996 Aki Yoshida,

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This library containd statically linked libstdc++. This inclusion is allowed by

"GCC RUntime Library Exception"

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== Contributors ==

\* Tatu Saloranta

\* Providing benchmark suite

\* Alec Wysoker

\* Performance and memory usage improvement

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\* HOMEPAGE:

\* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/

\* http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/

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\* HOMEPAGE:

\* http://iharder.sourceforge.net/current/java/base64/

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\* HOMEPAGE:

\* https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging

facade for Java, which can be obtained at:

\* LICENSE:

\* license/LICENSE.slf4j.txt (MIT License)

\* HOMEPAGE:

\* http://www.slf4j.org/

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\* HOMEPAGE:

\* http://archive.apache.org/dist/harmony/

This product contains a modified version of Roland Kuhn's ASL2

AbstractNodeQueue, which is based on Dmitriy Vyukov's non-intrusive MPSC queue.

It can be obtained at:

\* LICENSE:

\* license/LICENSE.abstractnodequeue.txt (Public Domain)

\* HOMEPAGE:

\* https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/src/main/java/akka/dispatch/AbstractNodeQueue.java

This product contains a modified portion of 'jbzip2', a Java bzip2 compression

and decompression library written by Matthew J. Francis. It can be obtained at:

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\* HOMEPAGE:

\* https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library to construct

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a constant-size alphabet written by Yuta Mori. It can be obtained at:

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\* HOMEPAGE:

\* https://code.google.com/p/libdivsufsort/

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM,

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\* HOMEPAGE:

\* https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in

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\* HOMEPAGE:

\* http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for encoding and

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\* license/LICENSE.compress-lzf.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression

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\* HOMEPAGE:

\* https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression

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\* license/LICENSE.lzma-java.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression

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\* HOMEPAGE:

\* https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data

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\* license/LICENSE.protobuf.txt (New BSD License)

\* HOMEPAGE:

\* http://code.google.com/p/protobuf/

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate

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\* HOMEPAGE:

\* http://www.bouncycastle.org/

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\* http://code.google.com/p/snappy/

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\* http://www.jboss.org/jbossmarshalling

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\* HOMEPAGE:

\* http://code.google.com/p/caliper/

This product optionally depends on 'Apache Commons Logging', a logging

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\* HOMEPAGE:

\* http://commons.apache.org/logging/

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\* HOMEPAGE:

\* http://logging.apache.org/log4j/

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\* HOMEPAGE:

\* http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation of

the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

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\* HOMEPAGE:

\* https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java library

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\* HOMEPAGE:

\* https://commons.apache.org/proper/commons-lang/

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\* src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.javacontains test data from http://aspell.net/test/orig/batch0.tab.Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

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------

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The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following

artifacts may be included in the distribution or downloaded when ALPN

module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modififications

are hosted at github and both modified and original are under GPL v2 with

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http://openjdk.java.net/legal/gplv2+ce.html

------

OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

------

Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

------

Assorted

The UnixCrypt.java code implements the one way cryptography used by

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This library containd statically linked libstdc++. This inclusion is allowed by

"GCC RUntime Library Exception"

http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html

== Contributors ==

\* Tatu Saloranta

\* Providing benchmark suite

\* Alec Wysoker

\* Performance and memory usage improvement

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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-build-tools/target/extra-resources/NOTICE.txt**

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This product contains the extensions to Java Collections Framework which has

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\* HOMEPAGE:

\* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/

\* http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jbosscache/experimental/jsr166/

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\* http://iharder.sourceforge.net/current/java/base64/

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\* HOMEPAGE:

\* https://github.com/joewalnes/webbit

This product contains a modified portion of 'SLF4J', a simple logging

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\* HOMEPAGE:

\* http://www.slf4j.org/

This product contains a modified portion of 'ArrayDeque', written by Josh

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\* HOMEPAGE:

\* http://archive.apache.org/dist/harmony/

This product contains a modified version of Roland Kuhn's ASL2

AbstractNodeQueue, which is based on Dmitriy Vyukov's non-intrusive MPSC queue.

It can be obtained at:

\* LICENSE:

\* license/LICENSE.abstractnodequeue.txt (Public Domain)

\* HOMEPAGE:

\* https://github.com/akka/akka/blob/wip-2.2.3-for-scala-2.11/akka-actor/src/main/java/akka/dispatch/AbstractNodeQueue.java

This product contains a modified portion of 'jbzip2', a Java bzip2 compression

and decompression library written by Matthew J. Francis. It can be obtained at:

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\* HOMEPAGE:

\* https://code.google.com/p/jbzip2/

This product contains a modified portion of 'libdivsufsort', a C API library to construct

the suffix array and the Burrows-Wheeler transformed string for any input string of

a constant-size alphabet written by Yuta Mori. It can be obtained at:

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\* HOMEPAGE:

\* https://code.google.com/p/libdivsufsort/

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM,

which can be obtained at:

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\* HOMEPAGE:

\* https://github.com/JCTools/JCTools

This product optionally depends on 'JZlib', a re-implementation of zlib in

pure Java, which can be obtained at:

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\* HOMEPAGE:

\* http://www.jcraft.com/jzlib/

This product optionally depends on 'Compress-LZF', a Java library for encoding and

decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

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\* HOMEPAGE:

\* https://github.com/ning/compress

This product optionally depends on 'lz4', a LZ4 Java compression

and decompression library written by Adrien Grand. It can be obtained at:

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\* HOMEPAGE:

\* https://github.com/jpountz/lz4-java

This product optionally depends on 'lzma-java', a LZMA Java compression

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\* license/LICENSE.lzma-java.txt (Apache License 2.0)

\* HOMEPAGE:

\* https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression

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\* HOMEPAGE:

\* https://code.google.com/p/jfastlz/

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data

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\* license/LICENSE.protobuf.txt (New BSD License)

\* HOMEPAGE:

\* http://code.google.com/p/protobuf/

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate

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\* HOMEPAGE:

\* http://www.bouncycastle.org/

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\* http://code.google.com/p/snappy/

This product optionally depends on 'JBoss Marshalling', an alternative Java

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\* http://www.jboss.org/jbossmarshalling

This product optionally depends on 'Caliper', Google's micro-

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\* http://code.google.com/p/caliper/

This product optionally depends on 'Apache Commons Logging', a logging

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\* HOMEPAGE:

\* http://wiki.fasterxml.com/AaltoHome

This product contains a modified version of 'HPACK', a Java implementation of

the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

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\* HOMEPAGE:

\* https://github.com/twitter/hpack

This product contains a modified portion of 'Apache Commons Lang', a Java library

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\* HOMEPAGE:

\* https://commons.apache.org/proper/commons-lang/

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The content of package org.apache.commons.codec.language.bm has been translated

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The binary distribution of this product bundles binaries of

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The binary distribution of this product bundles binaries of

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------

Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

------

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following

artifacts may be included in the distribution or downloaded when ALPN

module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modififications

are hosted at github and both modified and original are under GPL v2 with

classpath exceptions.

http://openjdk.java.net/legal/gplv2+ce.html

------

OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

------

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------

Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida,

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(Apache 2.0 license)

This library containd statically linked libstdc++. This inclusion is allowed by

"GCC RUntime Library Exception"

http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html

== Contributors ==

\* Tatu Saloranta

\* Providing benchmark suite

\* Alec Wysoker

\* Performance and memory usage improvement

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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-pipes/src/main/native/pipes/debug/pipes-default-gdb-commands.txt**

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info threads

backtrace

quit

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-common-project/hadoop-auth/README.txt**

Hadoop Auth, Java HTTP SPNEGO

Hadoop Auth is a Java library consisting of a client and a server

components to enable Kerberos SPNEGO authentication for HTTP.

The client component is the AuthenticatedURL class.

The server component is the AuthenticationFilter servlet filter class.

Authentication mechanisms support is pluggable in both the client and

the server components via interfaces.

In addition to Kerberos SPNEGO, Hadoop Auth also supports Pseudo/Simple

authentication (trusting the value of the query string parameter

'user.name').

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-common-project/hadoop-common/src/main/docs/src/documentation/README.txt**

This is the base documentation directory.

skinconf.xml # This file customizes Forrest for your project. In it, you

# tell forrest the project name, logo, copyright info, etc

sitemap.xmap # Optional. This sitemap is consulted before all core sitemaps.

# See http://forrest.apache.org/docs/project-sitemap.html

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-common-project/hadoop-nfs/README.txt**

Hadoop NFS

Hadoop NFS is a Java library for building NFS gateway. It has

the following components:

- ONCRPC: This a implementation of ONCRPC(RFC-5531) and XDR(RFC-4506).

- Mount: This an interface implementation of MOUNT protocol (RFC-1813).

- Portmap: This is a implementation of Binding protocol(RFC-1833).

- NFSv3: This is an interface implementation of NFSv3 protocol(RFC-1813).

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-project-dist/README.txt**

DUMMY.

Required for the assembly:single goal not to fail because there

are not files in the hadoop-project-dist module.

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/.eclipse.templates/README.txt**

This directory contains templates for generating Eclipse files to configure

Eclipse for Hadoop development.

For further information please consult

http://wiki.apache.org/hadoop/EclipseEnvironment

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-pipes/src/main/native/examples/README.txt**

To run the examples, first compile them:

% mvn install -Pdist,native

and then copy the binaries to dfs:

% hdfs dfs -put target/native/examples/wordcount-simple /examples/bin/

create an input directory with text files:

% hdfs dfs -put my-data in-dir

and run the word count example:

% mapred pipes -conf src/main/native/examples/conf/word.xml \

-input in-dir -output out-dir

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-datajoin/src/test/java/org/apache/hadoop/contrib/utils/join/README.txt**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* Input Files (Note: tab-separated columns) \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[:~]$ cat datajoin/input/A

A.a11 A.a12

A.a21 A.a22

B.a21 A.a32

A.a31 A.a32

B.a31 A.a32

[:~]$ cat datajoin/input/B

A.a11 B.a12

A.a11 B.a13

B.a11 B.a12

B.a21 B.a22

A.a31 B.a32

B.a31 B.a32

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* Invoke SampleDataJoin \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[:~]$ $HADOOP\_PREFIX/bin/hadoop jar hadoop-datajoin-examples.jar org.apache.hadoop.contrib.utils.join.DataJoinJob datajoin/input datajoin/output Text 1 org.apache.hadoop.contrib.utils.join.SampleDataJoinMapper org.apache.hadoop.contrib.utils.join.SampleDataJoinReducer org.apache.hadoop.contrib.utils.join.SampleTaggedMapOutput Text

Using TextInputFormat: Text

Using TextOutputFormat: Text

07/06/01 19:58:23 INFO mapred.FileInputFormat: Total input paths to process : 2

Job job\_kkzk08 is submitted

Job job\_kkzk08 is still running.

07/06/01 19:58:24 INFO mapred.LocalJobRunner: collectedCount 5

totalCount 5

07/06/01 19:58:24 INFO mapred.LocalJobRunner: collectedCount 6

totalCount 6

07/06/01 19:58:24 INFO datajoin.job: key: A.a11 this.largestNumOfValues: 3

07/06/01 19:58:24 INFO mapred.LocalJobRunner: actuallyCollectedCount 5

collectedCount 7

groupCount 6

> reduce

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\* Output File \*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[:~]$ cat datajoin/output/part-00000

A.a11 A.a12 B.a12

A.a11 A.a12 B.a13

A.a31 A.a32 B.a32

B.a21 A.a32 B.a22

B.a31 A.a32 B.a32

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs-httpfs/README.txt**

-----------------------------------------------------------------------------

HttpFS - Hadoop HDFS over HTTP

HttpFS is a server that provides a REST HTTP gateway to HDFS with full

filesystem read & write capabilities.

HttpFS can be used to transfer data between clusters running different

versions of Hadoop (overcoming RPC versioning issues), for example using

Hadoop DistCP.

HttpFS can be used to access data in HDFS on a cluster behind of a firewall

(the HttpFS server acts as a gateway and is the only system that is allowed

to cross the firewall into the cluster).

HttpFS can be used to access data in HDFS using HTTP utilities (such as curl

and wget) and HTTP libraries Perl from other languages than Java.

-----------------------------------------------------------------------------

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs-nfs/README.txt**

-----------------------------------------------------------------------------

HDFS-NFS - NFS implementation for Hadoop HDFS

-----------------------------------------------------------------------------

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/contrib/bkjournal/README.txt**

This module provides a BookKeeper backend for HFDS Namenode write

ahead logging.

BookKeeper is a highly available distributed write ahead logging

system. For more details, see

http://zookeeper.apache.org/bookkeeper

-------------------------------------------------------------------------------

How do I build?

To generate the distribution packages for BK journal, do the

following.

$ mvn clean package -Pdist

This will generate a jar with all the dependencies needed by the journal

manager,

target/hadoop-hdfs-bkjournal-<VERSION>.jar

Note that the -Pdist part of the build command is important, as otherwise

the dependencies would not be packaged in the jar.

-------------------------------------------------------------------------------

How do I use the BookKeeper Journal?

To run a HDFS namenode using BookKeeper as a backend, copy the bkjournal

jar, generated above, into the lib directory of hdfs. In the standard

distribution of HDFS, this is at $HADOOP\_HDFS\_HOME/share/hadoop/hdfs/lib/

cp target/hadoop-hdfs-bkjournal-<VERSION>.jar \

$HADOOP\_HDFS\_HOME/share/hadoop/hdfs/lib/

Then, in hdfs-site.xml, set the following properties.

<property>

<name>dfs.namenode.edits.dir</name>

<value>bookkeeper://localhost:2181/bkjournal,file:///path/for/edits</value>

</property>

<property>

<name>dfs.namenode.edits.journal-plugin.bookkeeper</name>

<value>org.apache.hadoop.contrib.bkjournal.BookKeeperJournalManager</value>

</property>

In this example, the namenode is configured to use 2 write ahead

logging devices. One writes to BookKeeper and the other to a local

file system. At the moment is is not possible to only write to

BookKeeper, as the resource checker explicitly checked for local

disks currently.

The given example, configures the namenode to look for the journal

metadata at the path /bkjournal on the a standalone zookeeper ensemble

at localhost:2181. To configure a multiple host zookeeper ensemble,

separate the hosts with semicolons. For example, if you have 3

zookeeper servers, zk1, zk2 & zk3, each listening on port 2181, you

would specify this with

bookkeeper://zk1:2181;zk2:2181;zk3:2181/bkjournal

The final part /bkjournal specifies the znode in zookeeper where

ledger metadata will be store. Administrators can set this to anything

they wish.

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/main/docs/src/documentation/README.txt**

This is the base documentation directory.

skinconf.xml # This file customizes Forrest for your project. In it, you

# tell forrest the project name, logo, copyright info, etc

sitemap.xmap # Optional. This sitemap is consulted before all core sitemaps.

# See http://forrest.apache.org/docs/project-sitemap.html

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/README.txt**

For the latest information about Hadoop, please visit our website at:

http://hadoop.apache.org/core/

and our wiki, at:

http://wiki.apache.org/hadoop/

This distribution includes cryptographic software. The country in

which you currently reside may have restrictions on the import,

possession, use, and/or re-export to another country, of

encryption software. BEFORE using any encryption software, please

check your country's laws, regulations and policies concerning the

import, possession, or use, and re-export of encryption software, to

see if this is permitted. See <http://www.wassenaar.org/> for more

information.

The U.S. Government Department of Commerce, Bureau of Industry and

Security (BIS), has classified this software as Export Commodity

Control Number (ECCN) 5D002.C.1, which includes information security

software using or performing cryptographic functions with asymmetric

algorithms. The form and manner of this Apache Software Foundation

distribution makes it eligible for export under the License Exception

ENC Technology Software Unrestricted (TSU) exception (see the BIS

Export Administration Regulations, Section 740.13) for both object

code and source code.

The following provides more details on the included cryptographic

software:

Hadoop Core uses the SSL libraries from the Jetty project written

by mortbay.org.

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/readme.txt**

Protocol Buffers - Google's data interchange format

Copyright 2008 Google Inc.

http://code.google.com/p/protobuf/

This package contains a precompiled Win32 binary version of the protocol buffer

compiler (protoc). This binary is intended for Windows users who want to

use Protocol Buffers in Java or Python but do not want to compile protoc

themselves. To install, simply place this binary somewhere in your PATH.

This binary was built using MinGW, but the output is the same regardless of

the C++ compiler used.

You will still need to download the source code package in order to obtain the

Java or Python runtime libraries. Get it from:

http://code.google.com/p/protobuf/downloads/

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-core/target/test-classes/recordSpanningMultipleSplits.txt**

Use with small split size,

like 32.

And then we give it a really really long line, which will surely span multiple splits,

to see how it handles.

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-core/src/test/resources/recordSpanningMultipleSplits.txt**

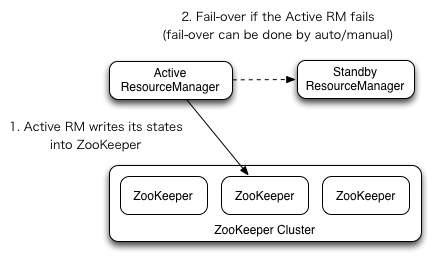
Use with small split size,

like 32.

And then we give it a really really long line, which will surely span multiple splits,

to see how it handles.

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-site/src/site/resources/images/rm-ha-overview.png**

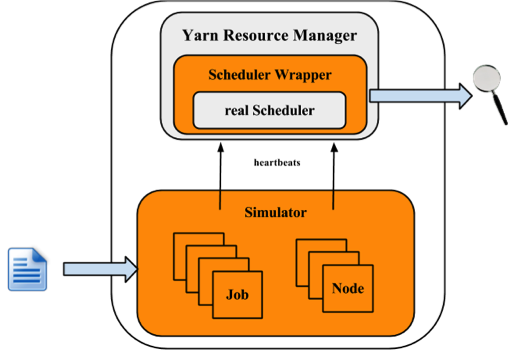


# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/datanode/robots.txt**

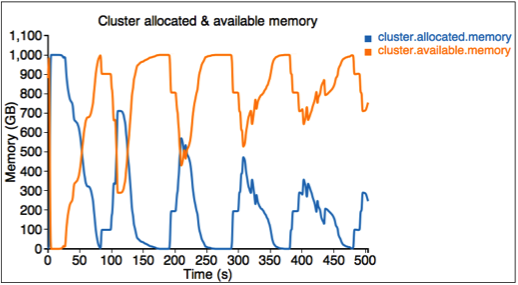
User-agent: \*

Disallow: /

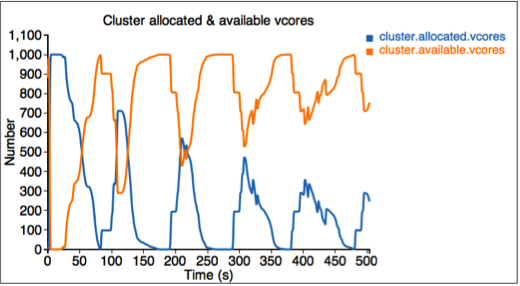
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_arch.png**



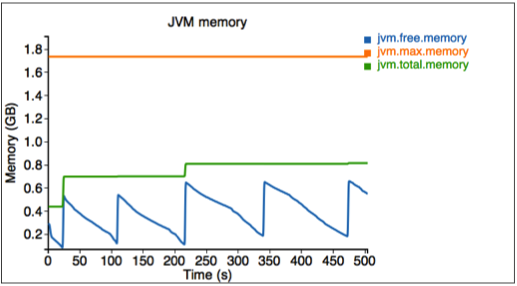
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_cluster\_memory.png**



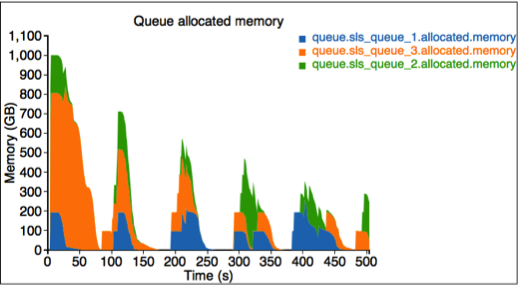
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_cluster\_vcores.png**



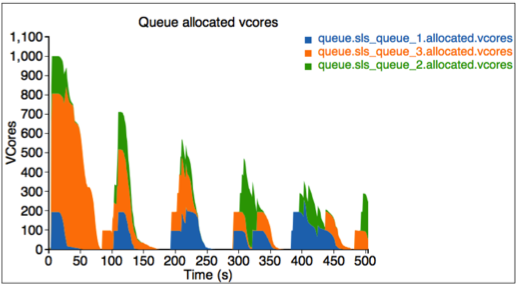
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_JVM.png**



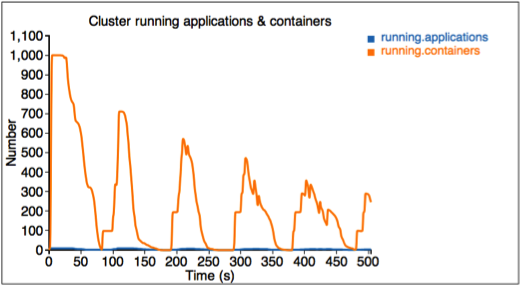
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_queue\_allocated\_memory.png**



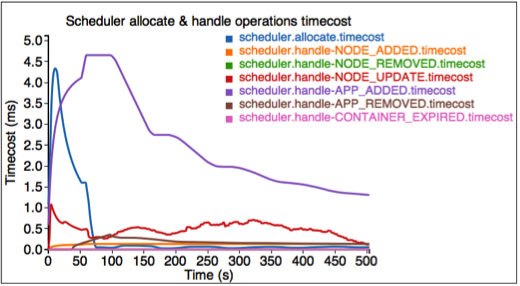
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_queue\_allocated\_vcores.png**



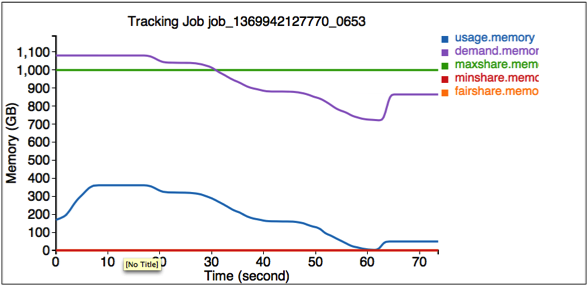
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_running\_apps\_containers.png**



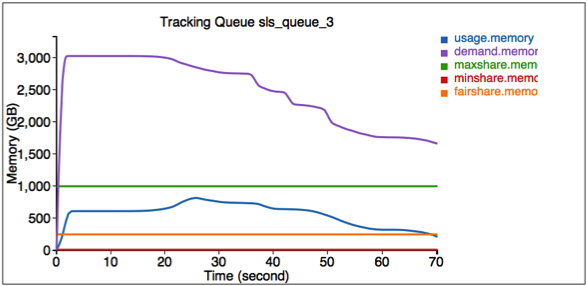
# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_scheduler\_operation\_timecost.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_track\_job.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-tools/hadoop-sls/src/site/resources/images/sls\_track\_queue.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/dt-1.9.4/images/sort\_asc.png**

sort_asc.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/images/sort\_asc.png**

sort_asc.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/dt-1.9.4/images/sort\_asc\_disabled.png**

sort_asc_disabled.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/images/sort\_asc\_disabled.png**

sort_asc_disabled.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/dt-1.9.4/images/sort\_both.png**

sort_both.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/images/sort\_both.png**

sort_both.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/dt-1.9.4/images/sort\_desc.png**

sort_desc.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/images/sort\_desc.png**

sort_desc.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/dt-1.9.4/images/sort\_desc\_disabled.png**

sort_desc_disabled.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/dt-1.9.4/images/sort\_desc\_disabled.png**

sort_desc_disabled.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-core/target/test-classes/testBOM.txt**

﻿BOM(Byte Order Mark) test file

BOM(Byte Order Mark) test file

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-core/src/test/resources/testBOM.txt**

﻿BOM(Byte Order Mark) test file

BOM(Byte Order Mark) test file

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/target/test-classes/testUpgradeFrom22FixesStorageIDs.txt**

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# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

# See the License for the specific language governing permissions and

# limitations under the License.

# Similar to hadoop-dfs-dir.txt, except this is used for a datanode layout

# upgrade test.

# Uncomment the following line to produce checksum info for a new DFS image.

#printChecksums

/f01 4021661486

/f02 4021661486

/f03 4021661486

/f04 4021661486

overallCRC 3193029345

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/test/resources/testUpgradeFrom22FixesStorageIDs.txt**

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# limitations under the License.

# Similar to hadoop-dfs-dir.txt, except this is used for a datanode layout

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/f03 4021661486

/f04 4021661486

overallCRC 3193029345

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/target/test-classes/testUpgradeFrom22via26FixesStorageIDs.txt**

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# Similar to hadoop-dfs-dir.txt, except this is used for a datanode layout

# upgrade test.

# Uncomment the following line to produce checksum info for a new DFS image.

#printChecksums

/f01 4021661486

/f02 4021661486

/f03 4021661486

/f04 4021661486

overallCRC 3193029345

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/test/resources/testUpgradeFrom22via26FixesStorageIDs.txt**

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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/target/test-classes/testUpgradeFrom26PreservesStorageIDs.txt**

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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_flat\_0\_aaaaaa\_40x100.png**

ui-bg_flat_0_aaaaaa_40x100.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_flat\_0\_aaaaaa\_40x100.png**

ui-bg_flat_0_aaaaaa_40x100.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_flat\_75\_ffffff\_40x100.png**

ui-bg_flat_75_ffffff_40x100.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_flat\_75\_ffffff\_40x100.png**

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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_55\_fbf9ee\_1x400.png**

ui-bg_glass_55_fbf9ee_1x400.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_55\_fbf9ee\_1x400.png**

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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_65\_ffffff\_1x400.png**

ui-bg_glass_65_ffffff_1x400.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_65\_ffffff\_1x400.png**

ui-bg_glass_65_ffffff_1x400.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_75\_dadada\_1x400.png**

ui-bg_glass_75_dadada_1x400.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_75\_dadada\_1x400.png**

ui-bg_glass_75_dadada_1x400.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_75\_e6e6e6\_1x400.png**

ui-bg_glass_75_e6e6e6_1x400.png

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ui-bg_glass_75_e6e6e6_1x400.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_95\_fef1ec\_1x400.png**

ui-bg_glass_95_fef1ec_1x400.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_glass\_95\_fef1ec\_1x400.png**

ui-bg_glass_95_fef1ec_1x400.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_highlight-soft\_75\_cccccc\_1x100.png**

ui-bg_highlight-soft_75_cccccc_1x100.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-bg\_highlight-soft\_75\_cccccc\_1x100.png**

ui-bg_highlight-soft_75_cccccc_1x100.png

# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-icons\_222222\_256x240.png**



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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-icons\_2e83ff\_256x240.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-icons\_2e83ff\_256x240.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-icons\_454545\_256x240.png**



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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/target/classes/webapps/static/jquery/themes-1.9.1/base/images/ui-icons\_888888\_256x240.png**



# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/webapps/static/jquery/themes-1.9.1/base/images/ui-icons\_888888\_256x240.png**



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# **File Path: /Users/xiaotingting/Downloads/学习资料/01\_hadoop hdfs从0基础入门到精通源码unzip/hadoop-2.6.5-src/hadoop-hdfs-project/hadoop-hdfs/src/site/resources/images/viewfs\_TypicalMountTable.png**

