

ExcaliburOverview

Subprojects and components of Apache Excalibur

- Framework (Avalon Framework)
- Fortress (Container)
- Components
 - Source Resolver
 - Store
 - Thread
 - XMLUtil
- Cornerstone
 - connection
 - datasources
 - scheduler
 - sockets
 - store
 - threads
- Containerkit
 - Instrument
 - Lifecycle
 - Logger
 - Logkit
- Deprecated, see <http://excalibur.apache.org/deprecation.html>

Archive files and the packages they contain

The archive files (ZIP and tar) can be found on <http://excalibur.apache.org/download.cgi>. For illustration purposes, we use the source ZIP archives and list what packages they contain.

In some cases the namespace is inconsistent.

There is `org.apache.avalon.fortress` and `org.apache.avalon.excalibur` and `org.apache.avalon.cornerstone` but then there is also `org.apache.excalibur`.

External distributions that are needed:

- Apache Commons Logging (<http://jakarta.apache.org/commons/logging/>)
- Apache Commons Collections (<http://jakarta.apache.org/commons/collections/>)
- Apache Log4J (<http://logging.apache.org/log4j/docs/>)
- Apache Bytecode Engineering Library BCEL (<http://jakarta.apache.org/bcel/>)

Other distributions may be needed as indicated. But if you don't need the particular part of Avalon/Excalibur that requires the distribution, no need to get it.

Avalon Framework

This seems to be the proverbial *secret sauce*. The Avalon Framework archive files can be found at <http://excalibur.apache.org/download.cgi> by selecting any project for download and then moving up, then down the distribution tree.

See <http://excalibur.apache.org/framework/> for more information.

Note the logging framework, `org.apache.avalon.framework.logger`. It declares the `Logger` interface through which a lot of classes of the framework and of Excalibur log. An instance of `Logger` is handed to a logging object through a call to `enableLogging(Logger logger)`. This is a callback approach to logging: instead of the logging object *creating* its own `Logger` it is handed one and calls methods on it.

`org.apache.avalon.framework.logger` contains connectors to various logging frameworks: Apache Commons Logging, JDK 1.4 logging, Apache Log4J logging and Avalon [LogKit](#) logging.

- **avalon-framework-api-4.3-src.zip**
 - `org.apache.avalon.framework`
 - `org.apache.avalon.framework.activity`
 - `org.apache.avalon.framework.availability`
 - `org.apache.avalon.framework.component`
 - `org.apache.avalon.framework.configuration`
 - `org.apache.avalon.framework.context`
 - `org.apache.avalon.framework.logger`
 - `org.apache.avalon.framework.parameters`
 - `org.apache.avalon.framework.service`
 - `org.apache.avalon.framework.thread`
 - `org.apache.avalon.framework.test`
- **avalon-framework-impl-4.3-src.zip**
 - `org.apache.avalon.framework.component`
 - `org.apache.avalon.framework.configuration`

- org.apache.avalon.framework.container
- org.apache.avalon.framework.context
- org.apache.avalon.framework.logger
- org.apache.avalon.framework.service
- org.apache.avalon.framework.component.test
- org.apache.avalon.framework.configuration.test
- org.apache.avalon.framework.context.test
- org.apache.avalon.framework.logger.test
- org.apache.avalon.framework.parameters.test
- org.apache.avalon.framework.service.test

Containers, excalibur-fortress

See <http://excalibur.apache.org/fortress/> and <http://wiki.apache.org/avalon/AvalonFortress> (the 'old' Avalon Wiki) for more info.

- **excalibur-fortress-container-api-1.2-src.zip**
 - org.apache.avalon.fortress
 - org.apache.avalon.fortress.util.dag
- **excalibur-fortress-container-impl-1.2-src.zip**
 - org.apache.avalon.fortress.impl
 - org.apache.avalon.fortress.impl.extensions
 - org.apache.avalon.fortress.impl.factory (needs BCEL)
 - org.apache.avalon.fortress.impl.handler
 - org.apache.avalon.fortress.impl.lookup
 - org.apache.avalon.fortress.impl.role (troublesome in Java 1.5 as it uses a variable called enum, fix that code!)
 - org.apache.avalon.fortress.util (this does not compile as it tries to instantiate org.apache.excalibur.instrument.manager.DefaultInstrumentManager, which is an interface. Try to fix it by using DefaultInstrumentManagerImpl instead. Additionally, the class Service uses a variable called enum.)
- **excalibur-fortress-migration-1.2-src.zip**
 - org.apache.avalon.fortress.migration
- **excalibur-fortress-meta-1.2-src.zip**
 - org.apache.avalon.fortress.tools (needs Codehaus qdox and qdox needs Apache Ant)
- **excalibur-fortress-examples-1.2-src.tar.gz**
 - org.apache.avalon.fortress.examples

Containers, excalibur-component

This is the old "Excalibur Component Manager" (ECM), the ancestor of "Excalibur Fortress". **Deprecated!!** Use the "Excalibur Fortress" container instead.

- **excalibur-component-2.1-src.zip**
 - org.apache.avalon.excalibur.component
 - org.apache.avalon.excalibur.component.servlet

Containerkit, excalibur-instrument

This part seems to fulfill a similar role to Sun's JMX 

- **excalibur-instrument-api-2.1-src.zip**
 - org.apache.excalibur.instrument
 - org.apache.excalibur.instrument.test
- **excalibur-instrument-mgr-api-2.1-src.zip**
 - org.apache.excalibur.instrument.manager
- **excalibur-instrument-mgr-impl-2.1-src.zip**
 - org.apache.excalibur.instrument.manager.impl
- **excalibur-instrument-mgr-http-2.1-src.zip**
 - org.apache.excalibur.instrument.manager.http
 - org.apache.excalibur.instrument.manager.http.server
- **excalibur-instrument-client-2.1-src.zip**
 - org.apache.excalibur.instrument.client
 - org.apache.excalibur.instrument.client.http
 - org.apache.excalibur.instrument.client.media

Containerkit, excalibur-lifecycle

See <http://excalibur.apache.org/lifecycle/> for more. This part seems to fulfill a similar role to Sun's JMX 

- **excalibur-lifecycle-api-2.1-src.zip** contains Accessor and Creator
 - org.apache.avalon.lifecycle
- **excalibur-lifecycle-impl-2.1-src.zip** contains AbstractAccessor and AbstractCreator
 - org.apache.avalon.lifecycle

Containerkit, excalibur-logger

See <http://excalibur.apache.org/logger.html> for more. These are implementations similar to the ones in `org.apache.avalon.framework.logger` but more complete and extended [?](#)

- **excalibur-logger-2.1-src.zip**
 - `org.apache.avalon.excalibur.logger`
 - `org.apache.avalon.excalibur.logger.decorator`
 - `org.apache.avalon.excalibur.logger.factory`
 - `org.apache.avalon.excalibur.logger.log4j`
 - `org.apache.avalon.excalibur.logger.logkit`
 - `org.apache.avalon.excalibur.logger.util`

Containerkit, excalibur-logkit

This is the 'Avalon Logkit', a possible logging implementation which has itself various possible logging targets.

- **avalon-logkit-2.1-src.zip** or (older) **excalibur-logkit-2.0.dev-0-src.zip**
 - `org.apache.log`
 - `org.apache.log.format`
 - `org.apache.log.output`
 - `org.apache.log.output.db` logs to JDBC
 - `org.apache.log.output.io` logs to File
 - `org.apache.log.output.io.rotate` File logrotation
 - `org.apache.log.output.lf5` logs to Log4J [LogFactor5](#) Swing GUI
 - `org.apache.log.output.net` logs to a TCP socket, an UDP socket or a SMTP connection
 - `org.apache.log.output.jms` logs to JMS API
 - `org.apache.log.util`

Components, cornerstone-connection

Utility classes for handling and servicing TCP/IP connections.

- **cornerstone-connection-api-2.1-src.zip**
 - `org.apache.avalon.cornerstone.services.connection`
- **cornerstone-connection-impl-2.1-src.zip**
 - `org.apache.avalon.cornerstone.blocks.connection`
 - `org.apache.avalon.cornerstone.services.connection` contains `AbstractHandlerFactory`, `AbstractService`, `DefaultHandlerFactory`

Components, cornerstone-datasources

Utility classes for specifying data sources (e.g. JDBC datasources) through XML config files.

- **cornerstone-datasources-api-2.1-src.zip**
 - `org.apache.avalon.cornerstone.services.datasources`
- **cornerstone-datasources-impl-2.1-src.zip**
 - `org.apache.avalon.cornerstone.blocks.datasources`

Components, cornerstone-scheduler

Utility classes to perform cron-like and periodic scheduling of actions.

- **cornerstone-scheduler-api-2.1-src.zip**
 - `org.apache.avalon.cornerstone.services.scheduler`
- **cornerstone-scheduler-impl-2.1-src.zip**
 - `org.apache.avalon.cornerstone.blocks.scheduler`

Components, cornerstone-sockets

Managing sockets (vanilla TCP sockets and TLS sockets).

- **cornerstone-sockets-api-2.1-src.zip**
 - `org.apache.avalon.cornerstone.services.sockets`
- **cornerstone-sockets-impl-2.1-src.zip**
 - `org.apache.avalon.cornerstone.blocks.sockets`

Components, cornerstone-store

Repository for serialized objects that can be retrieved by String key.

- **cornerstone-store-api-2.1-src.zip**

- org.apache.avalon.cornerstone.services.store
- **cornerstone-store-impl-2.1-src.zip**
 - org.apache.avalon.cornerstone.blocks.masterstore
 - org.apache.avalon.cornerstone.blocks.masterstore.xml

Components, cornerstone-threads

Manage a set of [ThreadPools](#).

- **cornerstone-threads-api-2.1-src.zip**
 - org.apache.avalon.cornerstone.services.threads
- **cornerstone-threads-impl-2.1-src.zip**
 - org.apache.avalon.cornerstone.blocks.threads
- **cornerstone-threads-tutorial-2.1-src.zip**
 - org.apache.avalon.cornerstone.threads.tutorial

Components, excalibur-datasource

Management of various datasources (JDBC, Informix, J2EE). The testcases are subclassed from org.apache.avalon.excalibur.testcase.ExcaliburTestCase, which is deprecated.

- **excalibur-datasource-2.1-src.zip**
 - org.apache.avalon.excalibur.datasource
 - org.apache.avalon.excalibur.datasource.cluster
 - org.apache.avalon.excalibur.datasource.ids
 - org.apache.avalon.excalibur.datasource.ids.test
 - org.apache.avalon.excalibur.datasource.test

Components, excalibur-event-api

Though indicated on <http://excalibur.apache.org/download.cgi>, there are no such archive files. See excalibur-event

Components, excalibur-event

Event though there are 'version 2.1' archives of excalibur-event, the classes therein are deprecated (<http://excalibur.apache.org/deprecation.html>) and have been replaced by D-Haven Event (<http://api.d-haven.org/event/>) and D-Haven Managed Pool (<http://projects.d-haven.org/modules/mydownloads/singlefile.php?cid=5&lid=6>) **Note to site maintainers: the URLs on <http://excalibur.apache.org/deprecation.html> to the D-Haven projects no longer work.**

- **excalibur-event-api-2.1-src.zip**
 - org.apache.excalibur.event
 - org.apache.excalibur.event.command
 - org.apache.excalibur.event.mpool
- **excalibur-event-impl-2.1-src.zip**
 - org.apache.excalibur.event.command
 - org.apache.excalibur.event.command.test
 - org.apache.excalibur.event.test
 - org.apache.excalibur.event.impl
 - org.apache.excalibur.mpool
 - org.apache.excalibur.mpool.test
 - org.apache.excalibur.util
 - org.apache.excalibur.util.test
 - org.apache.excalibur.util.system

Components, excalibur-monitor

These classes are used to actively monitor resources for changes.

- **excalibur-monitor-2.1-src.zip**
 - org.apache.avalon.excalibur.monitor
 - org.apache.avalon.excalibur.monitor.impl
 - org.apache.avalon.excalibur.monitor.test

Components, excalibur-pool

Uses Doug Lea's concurrency classes EDU.oswego.cs.dl.util.concurrent and also deprecated classes from Apache Commons Collections.

- **excalibur-pool-api-2.1-src.zip**
 - org.apache.avalon.excalibur.pool
- **excalibur-pool-impl-2.1-src.zip**
 - org.apache.avalon.excalibur.pool

- org.apache.avalon.excalibur.pool.test
- **excalibur-pool-instrumented-2.1-src.zip**
 - org.apache.avalon.excalibur.pool, contains InstrumentedResourceLimitingPool and ValidatedResourceLimitingPool

Components, excalibur-sourceresolve

A general approach to access data sources by URL. A source may yield an [InputStream](#) and a MIME Type and be based on arbitrary implementations. Makes me think of Sun's Java Activation Framework.

- **excalibur-sourceresolve-2.1-src.zip**
 - org.apache.excalibur.source
 - org.apache.excalibur.source.impl needs Apache Commons VFS (Virtual File System) and Apache Commons [HttpClient](#)
 - org.apache.excalibur.source.impl.validity
 - org.apache.excalibur.source.test

Components, excalibur-store

See <http://excalibur.apache.org/store/> for more.

The org.apache.excalibur.store.impl package uses classes from com.coyotegulch.jisp, which no longer exists (<http://www.coyotegulch.com/products/jisp/>). Jisp has been replaced by Itzam/Java (<http://www.coyotegulch.com/products/itzam/>), "A Deliberately Portable Embedded Database Engine".

- **excalibur-store-2.1-src.zip**
 - org.apache.excalibur.store
 - org.apache.excalibur.store.impl needs Coyotegulch JISP and Doug Lea's Concurrency Classes.

Components, excalibur-testcase

This package contains ExcaliburTestCase, a subclass of junit.framework.TestCase whose use is deprecated w/o replacement. Test cases found in other packages and archives may be based on ExcaliburTestCase.

- **excalibur-testcase-2.1-src.zip**
 - org.apache.avalon.excalibur.testcase

Components, excalibur-thread

- **excalibur-thread-api-2.1-src.zip**
 - org.apache.excalibur.thread
- **excalibur-thread-impl-2.1-src.zip**
 - org.apache.excalibur.thread.impl
 - org.apache.avalon.excalibur.thread.impl
 - org.apache.avalon.excalibur.thread.impl.test
- **excalibur-thread-instrumented-2.1-src.zip**
 - org.apache.avalon.excalibur.thread.impl, contains InstrumentedResourceLimitingThreadPool

Components, excalibur-xmlutil

- **excalibur-xmlutil-2.1-src.zip**
 - org.apache.excalibur.xml needs Apache XML Commons Resolver (see <http://xml.apache.org/commons/>)
 - org.apache.excalibur.xml.dom
 - org.apache.excalibur.xml.impl needs Apache XML Xerces (see <http://xerces.apache.org/>) (Should this not just be the Java JAXB API?)
 - org.apache.excalibur.xml.sax needs W3C JTidy (see <http://jtidy.sourceforge.net/index.html>)
 - org.apache.excalibur.xml.xpath needs the Codehaus XPath Engine 'Jaxen' (see <http://jaxen.org/>) and/or the SAXON XSLT and XQuery Processor (<http://saxon.sourceforge.net/>) and/or the Apache XML Xalan XSLT processors (<http://xml.apache.org/xalan-j/>)
 - org.apache.excalibur.xml.xslt
 - org.apache.excalibur.xmlizer
 - org.apache.excalibur.xml.dom.test
 - org.apache.excalibur.xml.xpath.test