

Cleaner CDK Code #2: String.contains() and logger messages

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Second in the series (see [#1](#)), with two rather small tips.

Use `String.contains()` instead of `String.indexOf("foo") != -1`

Java 5 introduced the method `public boolean contains(CharSequence s)`, which can replace the more cryptic use of `indexOf() != -1`.

Instead of:

```
System.getProperty("java.version").indexOf("1.6") != -1
```

you can write:

```
System.getProperty("java.version").contains("1.6")
```

More efficient use of the `LoggingTool`

Quite a long time ago, [Jmol](#) developer Miguel introduced me to a nice performance hint with respect to using logging tools. Each `debug()`, `info()`, `warn()`, etc method should take more than one parameter, so that only when debugging (or the debug level) is turned on, the objects are concatenated. It indeed gave a considerable performance boost to things. The CDK supports this too, and you should not concatenate Strings and other objects, but let the `LoggingTool` do that.

Instead of:

```
logger.debug(
    "\n" + paths.size() + " paths and " +
    ac.getAtomCount() + " atoms left."
);
```

you can write:

```
logger.debug(
    "\n", paths.size(), " paths and ",
    ac.getAtomCount(), " atoms left."
);
```