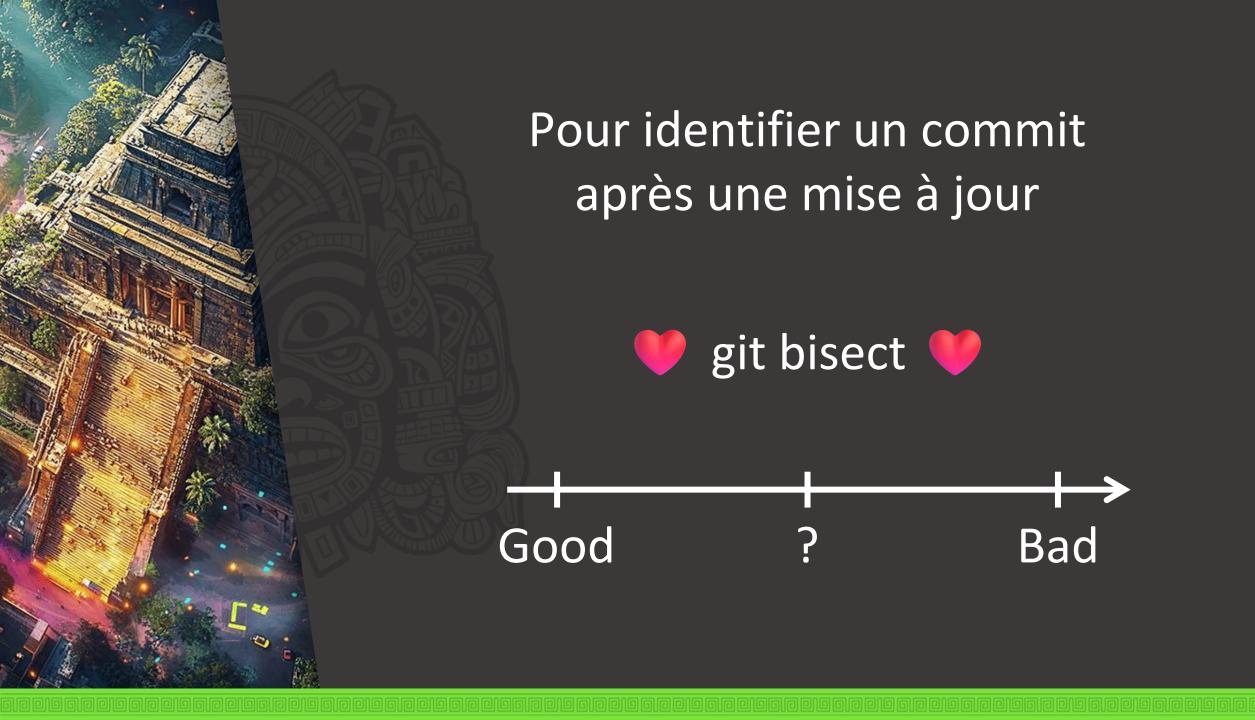




MAIS... POURQUOI ?!?



JDK-8322282 \rightarrow fixé en 21.0.3

```
final ReadableInterval validTime = value.getValidTime();
if (validTime.getStartMillis() < ...) {</pre>
    // No exception here
// not important code here
if (validTime.getStartMillis() < _...) {</pre>
    // NullPointerException
    // Cannot invoke "ReadableInterval.getStartMillis()"
    // because "validTime" is null
```



JDK-8328744 \rightarrow livré en 21.0.4

+30% de consommation mémoire sur certains benchmarks

ParallelGC n'utilisait pas toute la mémoire configurée avec -Xmx



Let's go!



```
$ git clone https://github.com/openjdk/jdk.git
Cloning into 'jdk'...
```

•••

Updating files: 100% (68960/68960), done.

\$ cd jdk

\$ git checkout jdk-24-ga
Updating files: 100% (10056/10056), done.

Note: switching to 'jdk-24-ga'.



Autoconf is not found on the PATH, and AUTOCONF is not set.

You need autoconf to be able to generate a runnable configure script.

You might be able to fix this by running 'sudo apt-get install autoconf'.

Error: Cannot find autoconf

\$ sudo apt-get install autoconf



Using autoconf at /usr/bin/autoconf

checking for basename... /usr/bin/basename

checking for dirname... /usr/bin/dirname

checking for file... no

configure: error: Could not find required tool

for FILE

configure exiting with result code 1

\$ sudo apt-get install file



checking for gmake... [not found] checking for make... [not found] configure: error: Cannot find GNU make 3.81 or newer! Please put it in the path, or add e.g. MAKE=/opt/gmake3.81/make as argument to configure.

\$ sudo apt-get install make

configure exiting with result code 1



for UNZIP

checking what type of tar was found... gnu checking that grep (/usr/bin/grep) -Fx handles empty lines in the pattern list correctly... yes checking for unzip... [not found] configure: error: Could not find required tool

configure exiting with result code 1

\$ sudo apt-get install unzip



checking that grep (/usr/bin/grep) -Fx handles empty lines in the pattern list correctly... yes checking for unzip... /usr/bin/unzip checking for zip... [not found] configure: error: Could not find required tool for ZIPEXE configure exiting with result code 1

\$ sudo apt-get install zip



\$ bash configure checking for java... [not found] configure: Could not find a valid Boot JDK. OpenJDK distributions are available at http://jdk.java.net/. configure: This might be fixed by explicitly setting --with-boot-jdk configure: error: Cannot continue configure exiting with result code 1



\$ bash configure --with-boot-jdk=/opt/jdk-24 configure: Using default toolchain gcc (GNU Compiler Collection) checking for gcc... [not found] configure: error: Could not find a C compiler. You might be able to fix this by running 'sudo apt-get install build-essential'. configure exiting with result code 1

\$ sudo apt-get install build-essential

\$ bash configure --with-boot-jdk=/opt/jdk-24 checking how to link with libstdc++... static checking for ALSA... checking for alsa/asoundlib.h... no configure: error: Could not find alsa! You might be able to fix this by running 'sudo apt-get install libasound2-dev'. configure exiting with result code 1

\$ sudo apt-get install libasound2-dev



\$ bash configure --with-boot-jdk=/opt/jdk-24

checking for which harfbuzz to use... bundled checking for cups/cups.h... no checking for cups/ppd.h... no configure: error: Could not find cups! You might be able to fix this by running 'sudo apt-get install libcups2-dev' configure exiting with result code 1

\$ sudo apt-get install libcups2-dev

\$ bash configure --with-boot-jdk=/opt/jdk-24 checking for cups/cups.h... yes checking for cups/ppd.h... yes checking for fontconfig/fontconfig.h... no configure: error: Could not find fontconfig! You might be able to fix this by running 'sudo apt-get install libfontconfig1-dev'. configure exiting with result code 1

\$ sudo apt-get install libfontconfig1-dev



\$ bash configure --with-boot-jdk=/opt/jdk-24

checking for X... no
configure: error: Could not find X11 libraries.
You might be able to fix this by running
'sudo apt-get install libx11-dev libxext-dev
libxrender-dev libxrandr-dev libxtst-dev
libxt-dev'.

configure exiting with result code 1

\$ sudo apt-get install <toutes les libs>

\$ bash configure --with-boot-jdk=/opt/jdk-24

•••

Configuration summary:

* Name: linux-x86_64-server-release

* Debug level: release

* HS debug level: product

* JVM variants: server

* JVM features: server: 'cds compiler1 compiler2 epsilongc g1gc jfr jni-check jvmci jvmti management parallelgc serialgc services shenandoahgc vm-structs zgc'



Quelques paramètres

--with-boot-jdk

--with-vendor-name=Antoine

--with-version-string=24+36

Tout est documenté dans le fichier doc/building.md



\$ make images
Building target 'images' in configuration
'linux-x86_64-server-release'

Finished building target 'images' in configuration 'linux-x86_64-server-release'



\$ cd build/linux-x86_64-server-release/jdk/bin/

\$./java --version
openjdk 24-internal 2025-03-18
OpenJDK Runtime Environment (build 24-internaladhoc.root.jdk)
OpenJDK 64-Bit Server VM (build 24-internal-

adhoc.root.jdk, mixed mode)



En résumé

- C'est très simple
- On installe tout ce dont Java a besoin
 - Java fournit même les commandes à taper
- 5 minutes pour installer toutes les dépendances
- 5 minutes pour builder Java
- Facile de créer un environnement tout prêt





Antoine DESSAIGNE – Software Architect at AXWAY







