

Integrating with Checkstyle

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Prerequisites

Jtest supports static analysis with Checkstyle 5.5, 5.6, 5.7, and 6.5.

Downloading and Installing Checkstyle

1. Download Checkstyle from the following website: <http://sourceforge.net/projects/checkstyle/files>.
2. Unpack Checkstyle to install.
3. Copy the configs, plugins, and rules folders from the `[INSTALL_DIR]/integration/checkstyle` directory into the Checkstyle installation directory.
4. Modify the `jtestcli.properties` file to include the following properties:

```
jtest.analyzer.checkstyle.enabled=true
jtest.analyzer.checkstyle.dir=CHECKSTYLE/INSTALLATION/DIRECTORY
rules.provider_cs.analyzer=com.puppycrawl.tools.checkstyle
rules.provider_cs.data=${jtest.home}/rules/csrules.xml
```

Analyzing Code with Checkstyle

Specify the Checkstyle user test configurations to perform analysis with Checkstyle:

- `user://Checkstyle` - Enables every rule
- `user://Checkstyle Recommended` - Enables Checkstyle recommended rules

Optional Customizations

You can customize your Checkstyle integration by configuring the following properties.

```
# Custom limit for number of files to be tested in a single executed Checkstyle process. Default is 50.
# However, if subsequent files are placed in the same directory, they will be still scheduled to that
# process unless the "hard" limit is reached (twice the "regular" limit).
jtest.analyzer.checkstyle.files.limit=50

# Custom timeout (seconds) for the Checkstyle process to start. Default is 5 seconds.
jtest.analyzer.checkstyle.launch.timeout=5

# Custom timeout (seconds) for the Checkstyle process to complete. Default is 60 seconds.
jtest.analyzer.checkstyle.timeout=60

# Custom launch file for Checkstyle process. Default is taken from the Checkstyle analyzer jar file.
# If one cannot be found, attempts to use file 'checkstyle.ini' from current working directory.
jtest.analyzer.checkstyle.launch.file=CUSTOM/LAUNCH/FILE
```

The `rulemap.txt` file located in the `[INSTALL_DIR]/integration/checkstyle` directory contains information about how rule IDs used in test configuration are mapped to Checkstyle rule types.