

How-To: Run PEAR

There are two ways to run PEAR: using the [WebStart](#) mode ([troubleshooting](#)) or running it by the [provided scripts](#). Notice that the *WebStart* mode does not allow you to extend PEAR's functionalities through plugins, so if you wish to run PEAR in standard mode you have to:

1. download PEAR
2. **unzip** the downloaded archive
3. **change** to the directory `$PEAR_HOME/release/bin`
4. **launch** `run.bat` if you are using a *Windows* operative system, otherwise use the script `run.sh` to launch PEAR under *UNIX/Linux*

Through both the scripts you can specify the name of the source containing the definition of the **default validation rule system**:

- the tool tries to find a file with name and path matching the ones given through the *defaultRulesSource* system property (see [below](#));
- if no source can be found, it looks for a resource matching the given name and path in the *classpath* and in the *plug-in modules* loaded at start;
- if also this method fails, the *default rule system* is loaded (you can find it in the `core.jar` module).

To change the **logger verbosity** you have to set the appropriate values for the following system properties:

- *logLevel* handles the default verbosity level of the tool; it may have an integer value between -1 e 4;
- *enableWarnings* activates or deactivates the warnings; it may have value true or false;
- *timeHeader* tells the logger (not) to print a timestamp in the log header at each log operation; it may have value true or false;
- *classHeader* tells the logger (not) to print the name of the class that created the logger instance at each output operation; it may have value true or false;

If you wish to modify the values of the above system properties, you may edit the script's sources:

1. *you might want to make a **backup** copy of the script*
2. open the script you wish to modify with a common text editor
3. **locate** the environment variable `JVM_OPT`
4. **locate** the system property whose value is to be modified: a system property's name is prefixed by the option `-D`
5. **change** its value
6. **save** the modified source

Example:

```
JVM_OPT="-DdefaultRulesSource=synt-analysis.vr -DlogLevel=1  
-DenableWarnings=true -DtimeHeader=true -DclassHeader=false"
```

Troubleshooting

- **I cannot web-start PEAR**
Probably the `application/x-java-jnlp-file` mime-type is associated with the wrong application: it should be associated with `$JRE_HOME/javaws/javaws`.
- **I cannot find `$JRE_HOME/javaws/javaws` application**
Probably you need to install the *Java Runtime Environment*: try [here](#).

Note: `$JRE_HOME` stands for the directory where the *Java Runtime Environment* is installed.

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