



Essential Metrics (EM)
for C/C++ and Java

User Guide
1.00.002

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2 Document

2.1 Purpose

This document is a User Guide for the Essential Metrics PM command-line source code metrics tool.

2.2 Readership

This User Guide is intended for end-users, system administrators. Management and non-technical users should refer to our website – <http://www.powersoftware.com/epm/>

2.3 Version History

1.00.002	21-Apr-2008	353 : Released with fixes for CBO, SEIMI and LCOM.
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3 Running Essential Metrics

3.1 Installing a License

You must obtain either a time-locked (for testing) or node-locked/floating (following purchase) license from Power Software. The recommended way to install the license is to place it where you installed Essential Metrics (e.g. C:\Program Files\Power Software\Essential Metrics *Language*) and then simply to call 'emetrics' at the command line. This will prompt for you to Browse to the license.dat file.

3.2 Command Line options

Usage: emetrics options name

Options

-c	csv_file	Create CSV report.
-f	filelist	Obtain files from the given file list.
-h1	html_file	Create single page HTML report.
-h2	html_dir	Create multiple page HTML report.
-h3	html_file	Create single page HTML report (grid).
-h4	html_dir	Create multiple page HTML report (grid).
-x	xml_file	Create XML report.
-?		Show this help screen.

name A name to give the project.

3.3 Example

```
emetrics -f masterproject.txt -c rep\masterproject.csv -h1 rep\single_page.html  
-h3 rep\single_grid.html -h2 rep\multi_page -h4 rep\multi_grid mproj1
```

Explanation:

-f is the input file list – **masterproject.txt** contains the list of files to be analysed
-c specifies a CSV report **masterproject.csv** be generated in the **rep** folder
-h1 specifies a single-page HTML report to the **rep** folder
-h3 specifies a single-page HTML report in grid format to the **rep** folder
-h2 specifies a multiple-page HTML report to the **rep\multi_page** folder
-h4 specifies a multiple-page HTML report in grid format to the **rep\multi_grid** folder
mproj1 is the MySQL database that will be created to store the results

3.4 Filelist

Essential Metrics accepts filelists: a list of the full path to the files to be parsed within the project. You can create a filelist using a DOS Batch file similar to the following:

```
@echo off  
  
cd c:\mysourcepath  
  
dir *.c *.cpp *.h /s /b >> c:\myemetricsprojects\masterproject.txt
```

4 FAQ

4.1 Why do I get 'You do not have a valid license'?

If you have not requested a license from laurence.arthur@powersoftware.com, please do so. Once you have received this file (supplied as an attachment called 'license.dat'), please detach this to the folder in which you installed EPM, by default:

```
C:\Program Files\Power Software\Essential Metrics Language
```

If there is an existing license.dat, overwrite it. Then try re-executing EPM.exe. If you continue to experience problems, send an email support@powersoftware.com with the License [Code] value you see on starting up EPM.

4.2 What does the error stating the MySQL cannot start mean?

If you are relying on EPM to start a MySQL database for you, please ensure that you wait a few seconds between running successive EPM sessions. MySQL takes a moment or so to start and stop the service at the beginning and end of an EPM session.