

QUALITY CONTROL (QC)

COBOL · DB2 · JAVA

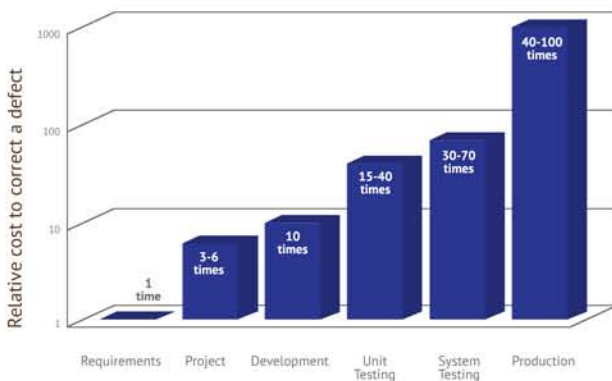
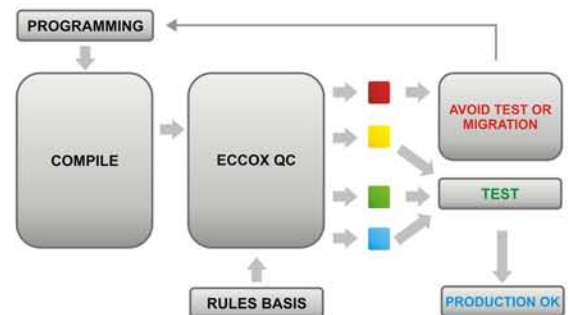
VALIDATE AND IMPROVE THE QUALITY OF YOUR SOFTWARE DEVELOPMENT - EVEN IF IT'S OUTSOURCED!

Time to market is ever accelerating giving competitive advantage to some companies, while eliminating the rest. Global competition is fierce and often forces the use of outsourced, low-cost software development. With such distributed development, plus new agile processes and the pressure to bring new features to market faster, there are tremendous challenges in delivering quality software on time.

The impact of poor quality software is evident. Customers are lost or cost a company unplanned time and money to retain. Competition gains fodder to win sales, and internal personnel lose confidence and the capability to calm frustrated customers, prospects, and partners.

We also know that the cost of fixing a software bug once a system is in production is significantly more expensive than catching it early in the development cycle. In studies, it's been found to cost at least 3 times more to fix a problem once the software is in production.

Eccox QC helps ensure that software is developed properly BEFORE it is released for production use. By integrating into the software development life cycle, **Eccox QC** verifies and ensures the company's software development rules and standards are enforced – in new or existing, maintained applications. Violations will be identified and recommendations will be offered to ensure quality programming practices.



BOEHM, B.W. – Software Engineering Economics, Prentice Hall, 1981 with Pressman, 2006

BENEFITS OF USING QC

- Reduces development time of software by helping to perfect new code.
- Enforces company's programming rules and policies for clean, reusable code.
- Improves system performance to improve response time for users.
- Increases stability of production environments making systems more available.
- Helps integrate and manage outsourced and internal development teams.

*Driving IT
Excellence*



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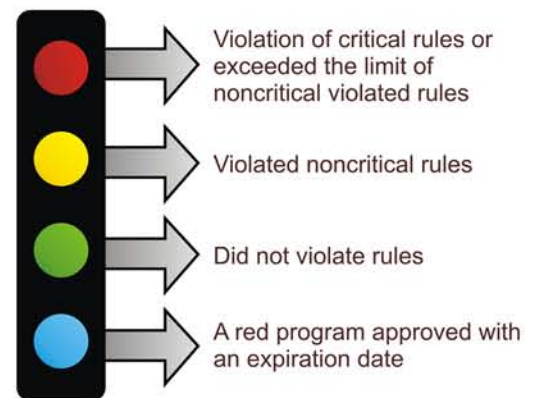
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FEATURES OF ECCOX QC

- Integrated with Changeman, CA-Endevor, Eclipse IDE, CruiseControl, Apache Continuum, Hudson CI, Rational Team Concert, Apache Ant and Apache Maven.
- Individual or bundle evaluations that include information such as the:
 - object (number of SQL statements checked, etc.)
 - SQL (type, access plan generated by DB2, estimated cost, accessed tables, available indexes)
 - existing violations (type, diagnosis and recommendation for correction.)
- Batch and online process result views.
- Keeps a cross-reference between a program and its calling programs, as well as between a program and its subprograms.
- Allows setting and controlling exceptions for rules set in terms of programs or systems.
- Administrator can create company-specific rules and program-type exceptions.
- Indicates cost of rule violation to determine priority of additional development work needed.
- Allows programmers to query DB2 indexes without requiring a DBA's assistance.
- Available in English and Portuguese.
- Evaluation reports.

HOW IT WORKS

1. An administrator turns on the preexisting rules as well as their weights/values. User-defined verification rules may be also implemented by logic programmed into routines (assembler, COBOL, Java, etc.) that observes the Eccox QC protocol.
2. When a programmer compiles a program, he/she receives an Eccox QC report (along with the compilation report) that lists the rules that were broken. If any critical rule is broken, the developer must correct it before the program can be compiled into an executable form.
3. The program is assigned a score according to the rules violated and best practices followed. The final score for a program is the sum of all violations weights. Using a simple stop light indicator, the following illustrates a program's score:



INSTALLATION REQUIREMENTS

Eccox QC for Java

Processor 2.0 GHz or up
 Java Virtual Machine 1.5 or up
 Application Server Tomcat 6.0, up or match
 Disk Space 130MB
 PostgreSQL 8.2 or up
 256M Xms at JVM.
 512M Xmx at JVM.
 Eclipse 3.1 or up
 256M PermSize at JVM

Eccox QC for COBOL & DB2

DB2 version 7 or up
 z/OS version 1.6 or up
 TSO/E with ISPF (COBOL only)
 TSO/E (DB2 only)
 Disk space for installation:
 800 of 3390 tracks

To schedule a demonstration of Eccox QC or talk to a software quality expert, email us: info@eccox.com or call (908) 382-6636.

Since 1992, Eccox has helped companies around the world achieve IT excellence. With more than 35,000 users of Eccox products and services, the company maintains offices in Brazil, the U.S., and Germany.