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可靠性

软件可靠性度量实例研究

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摘要:

为适应软件的不同特点和使用阶段, 必须根据软件的具体情况, 考虑在软件开发的整个生命周期中, 从不同角度对可靠性进行度量和评价。在现有软件可靠性度量的基础上, 选择改造了9个可用于评价软件可靠性的度量, 在航天软件中进行了应用, 并详细阐述了各个度量的目标、方法和过程, 最后对度量结果进行了综合分析以及给出了对软件的改进建议。

关键词: 软件可靠性 软件度量 软件可靠性评价

Case study on software reliability measurement

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Abstract:

In order to adapt the different features and use stages of software, the reliability of software must be measured and evaluated from different aspects based on the specific situation in the entire software development life cycle. 9 metrics suitable to the evaluation of software reliability are chosen and constructed on a basis of existing software reliability metrics and are used in an aerospace software. The goals, methods and processes of each metric are described in detail, the results of measurements are analyzed synthetically, and the improvement suggestions are given.

Keywords: software reliability software metric software reliability evaluation

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