

ICS 35.080
CCS L 77



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 29835.3-2013

**Efficiency of system and software -- Part 3: Testing method
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

Issued by: Standardization Administration of China

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Foreword

GB/T 29835 in the "System Software and efficiency," the general title, divided into the following three parts.

--- Part 1. Index System;

--- Part 2. Measurement Methods;

--- Part 3. Test methods.

This section GB/T 29835 Part 3.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This part of the National Information Technology Standardization Technical Committee (SAC/TC28) and focal points.

This section is drafted. Shanghai Lu Qixin Information Technology Co., Ltd. Shanghai Pudong software platform, application software product quality national the amount of supervision and inspection center, Shenzhen Branch Pulse Technology Co., Ltd., China Electronics Standardization Institute, Shanghai Baoxin Software Co., Ltd.

Guangdong Software Testing Center, Beijing University of Posts and Telecommunications, Network Zhuhai Southern Software Testing Center, Shanghai Computer Software Testing Laboratory, on Sea Embedded System Engineering Research Center, Nanchang Jinlu Software Park Software Testing Training Ltd., Guangzhou soft Information Systems Management Consulting Co., Ltd.

Introduction

This section GB/T 29835 of the proposed test method and software system efficiency. In order to make efficiency index system for different test Different test objectives and test requirements, this section extends the application method and system efficiency index metrics proposed index system measuring the efficiency Test application framework. Meanwhile, the index system based in part on the efficiency of the test application framework gives the corresponding test methods for each of the indicators and efficiency Test procedures, and test application system efficiency indicators framework application methods and cutting different applications under the guidance and advice is given, it it operates on a user or reviewers.

Personnel listed in this test method is not applicable to a portion of each test case, the test may be based on efficiency of the system to be tested Characteristics and test object selection from this section of suitable indicators and test constraints, while also encouraging the tester according to the test case Different added or deleted or modified metrics constraint test, test methods, to accommodate the specific needs of the test.

The main users of this standard is expected to include.

a) software suppliers, when.

- 1) to declare a software product efficiency characteristics;
- 2) control efficiency characteristics declared its own assessment of software products and systems;
- 3) on the design and implementation of software products related to the efficiency of the time;

b) third-party evaluation agencies conduct tests for efficiency certificate of conformity or a flag;

c) the potential demand-side when.

1) software products for the upcoming procurement efficiency requirements and instructions to compare existing products;

2) the need for efficiency of the product further improvement or improvement of products and potential errors made the necessary changes, the actual operation Differences in environmental and procurement environment;

3) test the efficiency requirement is satisfied.

GB/T 29835.1 "system and efficiency of the software - Part 1. Indicator System" gives the efficiency index system, GB/T 29835.2 "system System and Software Efficiency - Part 2. Measurement Methods" shows how to obtain efficiency index measurements measure. This section is intended and GB/T 29835.1 and GB/T 29835.2 combination.

Systems and Software Efficiency - Part 3. Test methods

1 Scope

This section GB/T 29835 specifies the test methods and software system efficiency. This method is an indicator of body GB/T 29835.1 of Line basis and GB/T 29835.2 metric method, given the efficiency index system efficiency test method for each indicator. This section Application of the method efficiency index system was extended, raised efficiency index system test application framework, so as to meet the efficiency index system Various test objectives and test requirements.

This section applies to the evaluation of the efficiency of the system and software.

Note 1: The system referred to in this section are primarily software system.

Note 2: This section is applicable to systems and software generic efficiency characteristics and test methods (eg for specific types of systems. Web application system, embedded system Etc.), can be expanded or cut on the basis of this part of the proposed system efficiency index test application framework and on the test methods. About tailoring method See Appendix A.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 29835.1 efficiency systems and software - Part 1. Index System GB/T 29835.2
Systems and Software Efficiency - Part 2. Measurement Methods

3 Terms and Definitions

GB/T 29835.1 and GB/T 29835.2 as defined in the following terms and definitions apply to this document.

Test constraint testrestriction Affect the efficiency index test results constraints.

Results view resultview Different forms of the test results show.

Note: In this section, the results view test results showing the efficiency index to show different forms, reflecting the characteristics of the different aspects of the test result (for example, average, Minimum, maximum, etc.).

Test cycle testperiod from the start to the end of the test period between tests.

Effective test cycle validtestperiod in the test cycle, the test period to meet the testing required constraints.

NOTE: In the efficiency of the test, the test data is acquired valid test cycle to be able to test for the efficiency index values calculated constraints specified.